



Product Catalog

# **Water Source Heat Pump Axiom™ Horizontal/Vertical — EXH/EXV, DXH/DXV**

0.5 to 6 Tons – 60 Hz, High Efficiency and Two-Stage High Efficiency

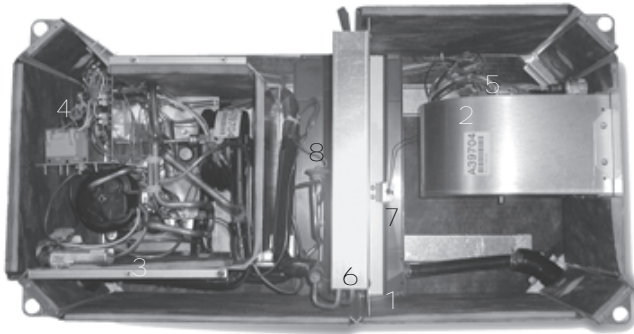




# Introduction

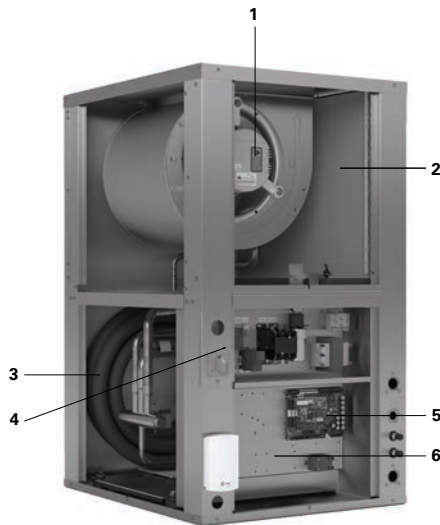
Imagine a full range of comfort utilizing efficiency, sound attenuation, integrated controls, and superior maintenance accessibility. The EXH/EXV and DXH/DXV models are Trane® water source comfort solutions. The horizontal unit is a ceiling hung product that provides serviceability to maintenance components; indoor air quality standards; sound attenuation; and best of all, higher efficiencies rated in accordance to ANSI/AHRI/ASHRAE/ISO13256-1 performance and ASHRAE 90.1 standards. Highlights of these units are included, but not limited to the below items.

**Figure 1. EXH/DXH unit**



1. Dual-sloped, non-corrosive drain pan
2. Variable-speed ECM motor
3. Insulated enclosure for quiet unit design
4. Integrated controls
5. Orifice ring motor mounting device (standard for ease of motor service)
6. Internal air-to-refrigerant coil (horizontal design)
7. 24V condensate overflow switch
8. TXV

**Figure 2. EXV/DXV unit**



| Callout Number in Figure | Description   |
|--------------------------|---|
| 1                        | ECM variable speed motor with orifice ring motor mounting device (standard for ease of motor service) |
| 2                        | Air-to-refrigerant coil (vertical design)   |
| 3                        | Coaxial refrigerant-to-water heat exchanger   |
| 4                        | Unit mounted disconnect switch  |
| 5                        | Trane UC400B controls   |
| 6                        | Drop down control box removable for access to internal unit components                                |

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## Revision History

- Updated Electrical data - 0.5 to 6 tons, EX\*006-070 table in the Electrical Data chapter.

- Updated Performance Data tables in Performance Data chapter.
- Running edits included.



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# Features and Benefits

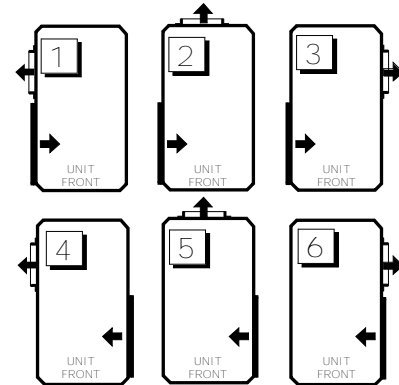
## Airflow Combinations

### EXH/DXH (0.5 to 6 Tons)

**Note:** The DXH/DXV models are only available in 2 to 6 tons.

The EX/DXH model configuration may be built to order or modified on-site to meet unique installation requirements.

1. Left return-air with left supply-air combination
2. Left return-air with back supply-air combination
3. Left return-air with right supply-air combination
4. Right return-air with left supply-air combination
5. Right return-air with back supply-air combination
6. Right return-air with right supply-air combination

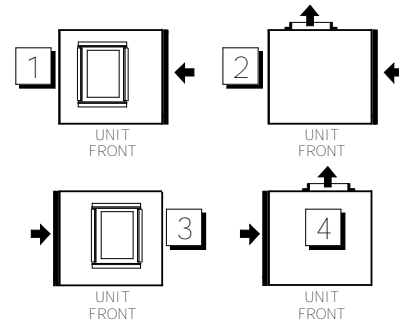


**Note:** For configuration #6, it is recommended to order a bottom access filter rack with right return/right supply combination due to a potential problem with return air filter removal.

### EXV/DXV (0.75 to 6 Tons)

The EX/DXV model is not capable of on-site modifications. Units must be ordered with the correct return and supply orientation as this cannot be modified in the field.

1. Right return-air with top supply-air combination
2. Right return-air with back supply-air combination
3. Left return-air with top supply -air combination
4. Left return-air with back supply-air combination





## Features and Benefits

### Air-Side Filter

The air-side filter incorporates a 1-inch thick (nominal) or 2-inch thick (nominal), MERV 8 or MERV 13 disposable filter option. Accessory filters are also available in 4-inch (nominal) thickness for MERV 8 and MERV 13. These filters include an average synthetic dust weight tolerance of approximately 75%. This dust holding capability includes a colorless, odorless adhesive to retain dirt particles within the filter media after fiber contact.



### Air to Refrigerant Coil (0.5 to 6 Tons)

The air-to-refrigerant heat exchanger is constructed of staggered copper tubes with die-formed corrugated lanced aluminum fins. The fins are then mechanically bonded to the tubes through expansion. The coil is placed internal of the unit design for the horizontal model to provide an optional dual filtration application. With dual filtration to the unit, maintenance to the filter is significantly less than with a single filtration system. This design also offers maximum flexibility of the supply and return air configurations.

The maximum working pressure for the coils is 650 psig. It is designed for maximum capacity with an additional benefit of physical unit size reduction.

Coil specifications may be found in the General Data section of this catalog.



### Blower Housing

The blower housing is constructed of non-corrosive galvanized steel. A factory-mounted orifice ring is provided for ease of motor serviceability.

In addition, air-side panels are interchangeable with one another for ease of field convertibility of the supply-air on the EXH/DXH model.

### Blower Motor

The motor is an ECM variable speed motor with electronic protection. The ECM motor is programmed to provide soft starting and a constant CFM over a range of static pressure. A means to adjust the air flow is provided with a control board. Fan speed reduces down to provide 50% of the selected profile setting when the zone set point temperature is satisfied or when the unit runs in fan only mode. The motor contains a quick disconnect plug and permanently lubricated bearing. The fans are placed in a draw-through configuration. They are constructed of corrosion resistant galvanized material. Removal of the motor and fan wheel can be made with the assistance of a factory provided orifice ring device. This device attaches the wheel and motor to the fan housing in a single assembly eliminating the need for access to the set screw on the backside of the fan hub.





## Boilerless Control, Electric Heat (Option)

In cooling dominant regions where heat may be used 15 to 30 days out of the winter season, eliminating the boiler may be an economical advantage to the building owner. Eliminating a boiler from the system reduces costs associated with the mechanical system installation, as well as the maintenance and service of the boiler.

How can heat be provided for the few days of the year when heat is necessary? Through the water-source heat pump of course. The advantage of the water-source heat pump is its ability to provide heat recovery within the closed water-loop. While some WSHPs may be extracting heat from the closed water loop, other WSHPs may be adding heat to the closed water loop. This creates a perfect system balance for heat sharing or movement from one space to another.

But when water temperatures fall in a boilerless system, and no further heat recovery may be made using the closed loop, heat may be added to the space through a boilerless control electric heat option.

Hot gas reheat is not available for both EX/DX units with the boilerless electric heat option. For both EX and DX units, supplemental or emergency heat applications are not available with the boilerless electric heat option.

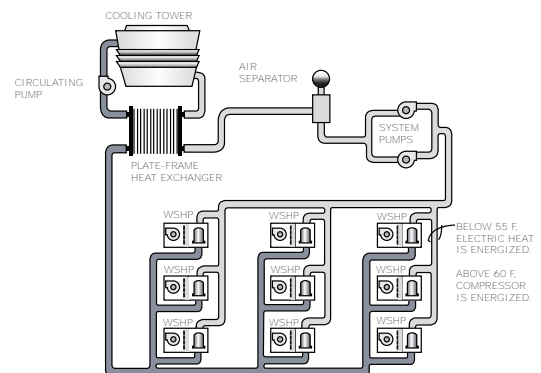
### How it Works

In heating mode, when the water temperature falls below 55°F (factory setting), the electric heater is energized, locking out the compressor. The system's electric heat source will continue to be utilized for primary heating until the loop temperature rises above 60°F. Once the entering water temperature rises above 60°F, the boilerless controller returns the unit to normal compressor heating operation and locks out the electric heater. This maximizes efficiency from the unit during the few days requiring heat from the mechanical system.

**Note:** For geothermal applications, the boilerless controller has an adjustable setting of 25, 35, 45, 55 and 60°F.

## Boilerless Control, Electric Heat System

With the internal boilerless electric heat option, the heat pump encompasses an internal nichrome open wire heating element (factory mounted and wired). It is comprised of a single stage of electric heat designed to operate an electric heater in place of the compressor in the event entering water temperature falls below 55°F or a field adjusted temperature setting between 25°F to 60°F.

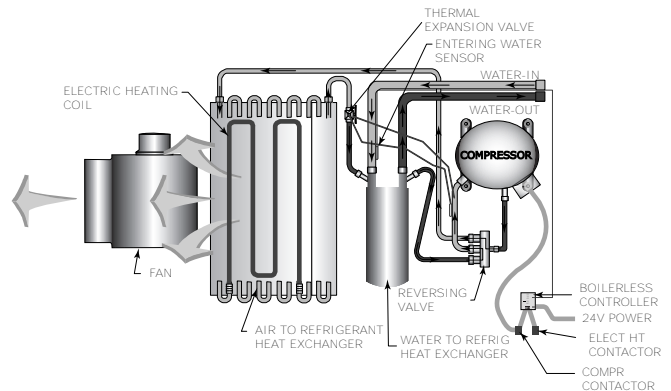




## Features and Benefits

### Factory Mounted and Wired Boilerless Control, Electric Heat

A boilerless controls option for field installed electric heat is also available. In this application, the heater shall be placed external to the equipment. All power connections for the electric heater will be completely separate from the unit. The unit contains boilerless controls to interface with the field provided electric heat.



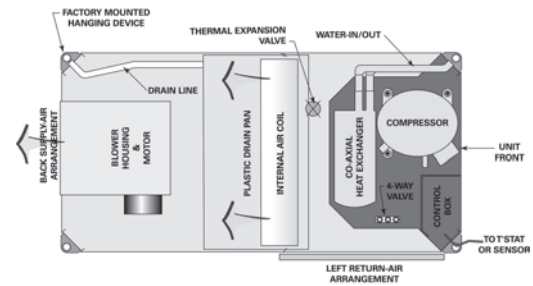
### Cabinet Description

The cabinet design contains a platform utilizing similar parts and assemblies throughout the product line. It is constructed of heavy gauge (non-painted), galvanized metal for maximum durability and corrosive resistive exterior.

The cabinet front allows service access for the controls and refrigeration circuitry. In addition, water-in/out connection, drain connection and high/low voltage hook-up is accomplished at the 45° chamfered corners on the front-side of the equipment.

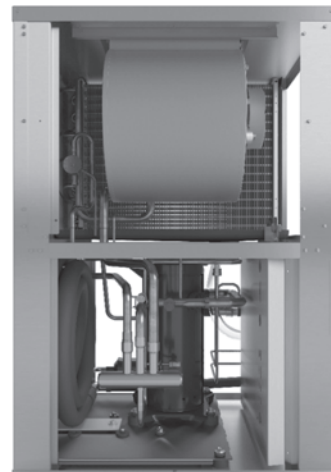
#### EXH/DXH Cabinet

There are six product variations of return-air and supply-air combinations which may be order-specific or job-site modified.



#### EXV/DXV Cabinet

The vertical design offers four product variations of return-air and supply-air combinations. These are factory options for made to order unit construction.



## Cabinet Insulation

The cabinet insulation design meets UL 181 requirements. The air-stream surface of the insulation is fabricated of a non-biodegradable source.

## Co-axial Water-to-Refrigerant Coil

The unit's internal heat exchanging water coil is engineered for maximum heat transfer. The copper or cupro-nickel seamless tubing is a tube within a tube design. The inner-water tube contains a deep fluted curve to enhance heat transfer and minimize fouling and scaling. It is available in either copper or cupro-nickel (selectable option) coil. The outer refrigerant gas tube is made from steel material. The coil is leak tested to assure there is no cross leakage between the water tube and the refrigerant gas (steel tube) coil. Co-axial heat exchangers are more tolerant to freeze rupture.



## Compressors

The unit's design includes a wide variety of compressor motors to accommodate dedicated voltages and tonnage sizes. The 0.5 to 1.5 tons products have a rotary compressor design. The scroll compressor design is used in 2 to 6 tons units. These different styles allow Trane to provide the voltage variations along with noise reduction required in today's applications.



## Compressor and Co-axial Coil Isolation (0.5 to 6 Tons)

Vibration isolation of the compressor and co-axial water coil is accomplished by increasing the rigidity and stiffness at the base. The platform provides double isolation to the compressor and the co-axial water coil for additional attenuation during compressor start and stop.

## Drain Pan

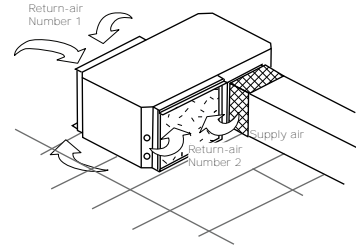
The unit drain pan is composed of polymer material. The pan is positively sloped to comply with ASHRAE 62 for (IAQ) indoor air quality conformity. Optional stainless steel drain pans are also available. Access to the drain pan is provided through two access panels for cleaning purposes.



## Dual Filtration

Flexibility of the EX/DXH allows for dual filtration in a free return application. With the field installed dual filtration accessory, filter maintenance of the unit is significantly less.

The accessory package includes both the bottom and top filter rack, and one, 1-inch or 2-inch filter. provides dual filtration accessory numbers appropriate to unit size.

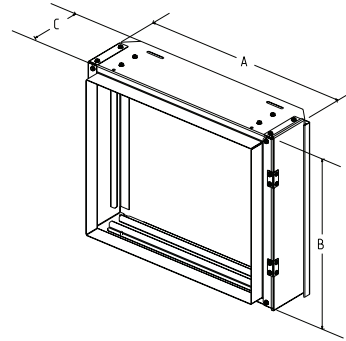


**Table 1. Dual filter accessory kit numbers - 0.5 to 6 tons**

| Unit size                | 1 in. filter kit part no. | 2 in. filter kit part no. |
|--------------------------|---------------------------|---------------------------|
| EXHF006-015              | 4474 0630 0100            | 4474 0634 0100            |
| EXHF018-024, DXHF024     | 4474 6535 0100            | 4474 6536 0100            |
| EXHF030-036, DXHF036     | 4474 5974 0100            | 4474 5976 0100            |
| EXHF042-070, DXHF048-070 | 4474 6609 0100            | 4474 6610 0100            |

## Ducted Filter Rack

When it is necessary to have filter access at the unit in a ducted return, a ducted filter rack is available. This option allows access to the filter at the unit. Vertical unit filter racks are available in right or left access configurations. Horizontal units are available in top, bottom or side access configurations.



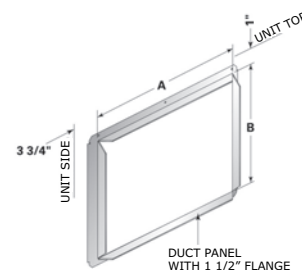
**Table 2. Ducted filter opening size - 0.5 to 6 tons**

| Unit Size                | A (in.) | B (in.) | C (in.) |
|--------------------------|---------|---------|---------|
| EXHF006-015              | 21.1    | 15.4    | 5.4     |
| EXHF018-024, DXHF024     | 24.5    | 18.4    | 5.6     |
| EXHF030-036, DXHF036     | 26.4    | 19.4    | 5.5     |
| EXHF042-070, DXHF048-070 | 30.7    | 21.4    | 5.5     |
| EXVG009-012              | 19.0    | 16.25   | 6.6     |
| EXVG015                  | 20.5    | 17.25   | 6.6     |
| EXVG018-024, DXVG024     | 23.5    | 18.25   | 6.6     |
| EXVG030-036, DXVG036     | 30.0    | 20.25   | 6.6     |
| EXVG042-048, DXVG048     | 30.0    | 27.0    | 6.6     |
| EXVG060-070, DXVG060-070 | 30.0    | 32.75   | 6.6     |

**Note:** All dimensions in inches. EXVG/DXVG dimensions are for accessory 2 or 4" Filter Rack.

## Ducted Panel - Return Air

The return-air arrangement may be easily converted from a free return-air system, to a ducted return-air system with the addition of a return-air side panel. By replacing the filter racks with the return-air panel, a complete seal from the duct to the unit is possible. The 1.5 in. duct flange facilitates ease of field connection to the duct system. This accessory is typically used when the return-air filter is placed in a built-in ceiling grille, or placed within a field provided filter rack assembly.



**Table 3. Ducted panel - return air (EXHF/DXHF)**

| Unit size (60 Hz) | A (in.) | B (in.) | Duct Collar Part Number |
|-------------------|---------|---------|-------------------------|
| 006-015           | 17.5    | 13      | 447411330100            |
| 018-024           | 20.5    | 16      | 447456280100            |
| 030-036           | 22.5    | 17      | 447411350100            |
| 042-070           | 26.5    | 19      | 447411360100            |

**Table 4. Ducted panel - return air (EXVG/DXVG)**

| Unit size (60 Hz)    | A (in.) | B (in.) | Duct Collar Part Number |
|----------------------|---------|---------|-------------------------|
| EXVG09-012           | 18.50   | 16.50   | WSHPPND00002            |
| EXVG015              | 20.00   | 17.50   | WSHPPND00003            |
| EXVG018-024, DXVG024 | 23.00   | 18.50   | WSHPPND00004            |
| EXVG030-036, DXVG036 | 29.50   | 20.50   | WSHPPND00005            |
| EXVG042-048, DXVG048 | 29.50   | 27.25   | WSHPPND00006            |
| EXVG060-070, DXVG070 | 29.50   | 33.25   | WSHPPND00007            |

## Expansion Valve

The refrigerant flow metering is made through the thermal expansion valve (TXV).

For EXH/V models, it allows the unit to operate with an entering fluid temperature from 25°F to 110°F on 0.5 to 1.25 ton models and 25°F to 120°F on 1.5 to 6 ton models, and entering air temperatures from 55°F to 85°F.

For DXH/V models, it allows the unit to operate with an entering fluid temperature from 25°F to 85°F in the heating mode and 45°F to 120°F in the cooling mode and entering air temperatures from 55°F to 85°F.

The valve is designed to meter refrigerant flow through the circuitry to achieve desired heating or cooling.

Unlike cap-tube assemblies, the expansion valve device allows the exact amount of refrigerant required to meet the coil load demands. This precise metering by the TXV increases the efficiency of the unit and eliminates the need for a water regulating valve.





## Features and Benefits

### Hanging Device

The hanging bracket resides in the chamfered corner of the horizontal 0.5 to 6 ton equipment. This partially-concealed bracket design eliminates added height, width, or length to the product. The brackets are factory mounted to shorten job installation requirements.

The structural integrity of the design helps assure no bracket deflection or unit bowing from the unit's weight. Isolation for the hanging bracket is provided with a neoprene rubber grommet design.

This isolation device helps prevent sound vibration from reaching the structural support members of the building during compressor start and stop.



### Hot Gas Reheat (EXH/V Models Only)

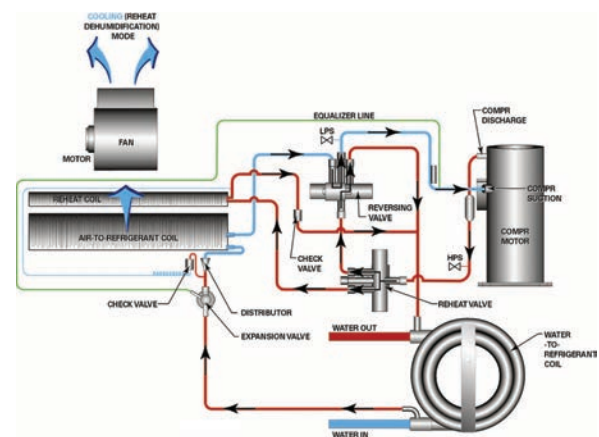
For space conditioning and climate control, Trane provides an accurate and cost effective dehumidification control through a hot gas reheat option.

With this reheat option, the return air from the space is conditioned by the air-to-refrigerant coil, then reheated by the reheat coil to control not only the space temperature, but to also reduce the relative humidity of the space. The moisture removal capability of a specific heat pump is determined by the units latent capacity rating.

When operating in the reheat mode (meaning the sensible temperature has been met in the space), the humidistat signals the reheat relay coil to energize, allowing the high pressure refrigerant gas to flow from the compressor, through the reheat valve, into the reversing valve, and through the reheat coil for dehumidification.

Trane places an air separation space between the air-to-refrigerant coil, and the reheat coil to allow for maximum moisture removal.

For 0.5 to 6 ton horizontal units with UC400, a switching relay has been provided for the reheat application to adjust the blower motor from normal operation to low speed when hot gas reheat is energized.



### Hot Gas Reheat - Applications

The hot gas reheat option is designed to support building applications requiring fresh-air ventilation units delivering unconditioned-air directly to the space. It also provides dehumidification to large latent load spaces such as auditoriums, theaters and classrooms, or anywhere humidity control is a problem.

### Hot Gas Reheat - Design

Water-source heat pumps with hot gas reheat should not be used as a make-up air unit.

Water regulating valves should not be used with the hot gas reheat option. Trane places a thermal expansion valve on all water-source heat pumps, as well as ground-source heat pumps, to regulate refrigerant flow vs. water flow, making the heat pump more efficient to run.

## Motorized Water Valve

The motorized water valve is installed on the return line of the water loop system between the loop and the loop's pump module.

When the compressor begins running, the two-position valve will open, allowing water to flow through the unit. As the compressor shuts down, the valve slowly closes off. The main purpose of the motorized valve is to shut-off the flow of water through the unit when the unit is off, thus reducing pump energy consumption. The two-position motorized valve is fast opening to prevent compressor trip-out, and slow closing to prevent water hammer.

## Pump Module

The pump module and hose kit make a complete self-contained pumping package for distributed pumping systems. These kits contain all the necessary components for the installation, operation and maintenance of the water circuit of a closed loop geothermal application. Standard pump module features include insulated Grundfos pumps, insulated cabinet or cast iron pump, and 3-way brass valves. Literature number WSHP-SVN001-EN will provide electrical and dimensional requirements for the PMCA products.



## Pump Module Hose Kit

The pump module hose kit consists of two brass, 3/4 in. or 1 in., male pipe thread (MPT)-by-barb fittings; two brass 90° 1-inch, MPT-by-barb elbows with pressure/temperature ports; and 10 ft of rubber hose with 4 hose clamps. The pump module hose kit is available separately from the pump module.



## Refrigerant Piping

The unit's copper tubing is created from a 99% pure copper formation that conforms to the American Society of Testing (ASTM) B743 for seamless, light-annealed processing.

The unit's copper refrigeration system is designed to be free from contaminants and conditions such as drilling fragments, dirt, or oil. This excludes the possibility of these contaminants from damaging the compressor motor.

## Reversing Valve

A system reversing valve (4-way valve) is included with all heating/ cooling units. This valve is piped to be energized in the cooling mode to allow the system to provide heat if valve failure were to occur. Once the valve is energized for cooling, it will remain energized until the control system is turned to the "OFF" position, or a heating cycle is initiated.

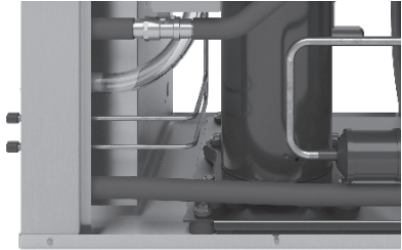




## Features and Benefits

### Schrader Connections

The Schrader/CoreMax® connections for the low and high side of the refrigeration system are located directly beside the control box at the front, service access panel. EXVG/DXVG Schrader/Coremax connections shown. EXHF/DXHF connections will be located on the suction and discharge lines with access from unit front.



### Sound Attenuation Package

Testing of conventional units has identified that the sound radiated by the casing of the unit is an important component of the sound that reaches occupants, especially when the unit is located directly over the occupied space.

This sound reduction package reduces radiated noise from the cabinet. Trane® double-isolates the compressor and single-isolates the co-axial coil in the unit. This design absorbs the vibration that contributes to radiated sound. For sound critical spaces, an enhanced sound package as described in the following table provides additional attenuation.

**Table 5. Sound package**

| Standard Sound Attenuation Package   | Deluxe Sound Attenuation Package (Option)  |
|--|--|
| 18-gauge compressor enclosure (EXH/DXH only)   | 16-gauge compressor enclosure  |
| 20-gauge single wall front panel   | 16-gauge single wall front panel   |
| lined compressor enclosure with 1/2-inch cabinet insulation  | lined compressor enclosure with 1/2-inch cabinet insulation  |
| 14-gauge compressor/water-to-refrigerant heat exchanger pan with second stage of vibration isolation | 14-gauge compressor/water-to-refrigerant heat exchanger pan with second stage of vibration isolation |
| compressor double vibration isolation  | compressor double vibration isolation  |
| water-to-refrigerant heat exchanger vibration isolation  | water-to-refrigerant heat exchanger vibration isolation  |
| lengthwise unit base stiffeners (EXH/DXH only)   | lengthwise unit base stiffeners  |
|  | 3/32-inch foam gasket sealant placed around the perimeter  |



## Water Connections

The water-in/water-out connections to the co-axial water coil are located on the right-hand corner of the unit. The fittings are mounted flush to the wall to help limit shipping damage.

The water connection devices are constructed of copper material and include a National Female Pipe Thread (NFPT) junction. The connections are attached to the unit's corner to alleviate the need for a back-up wrench during installation.



## Waterside Economizer (Option)

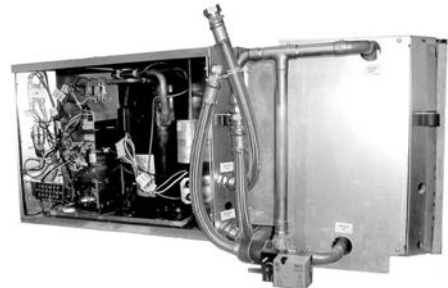
The beauty of the waterside economizer is its ability to take advantage of any loop condition that results in cool water temperatures. A prime example would be during fall, winter and spring when cooling towers have more capacity than required and could be controlled to lower temperatures for economizer support.

Another more common inexpensive means of free comfort cooling includes buildings systems where perimeter heating and core cooling are needed. In this system, the perimeter units extract heat from the building loop while in the heating mode, forcing the building loop temperature to drop. Where as, the core are of a building may require cooling in summer or in winter based upon lighting, people and equipment.

## Waterside Economizer Package

The waterside economizer is available on all 0.5 to 6 ton models.

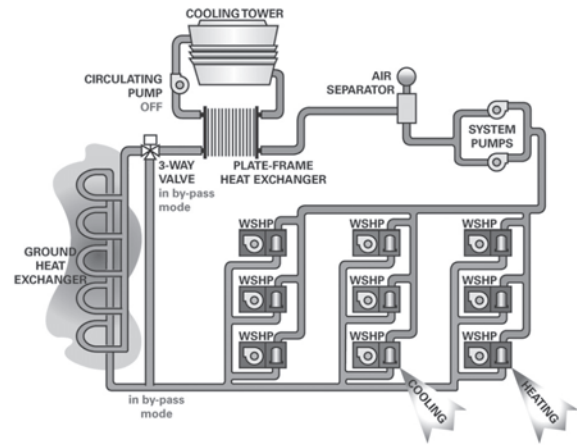
**Note:** *Condensate overflow protection for the waterside economizer coil is field provided.*



### Waterside Economizer System

If the water-source system design contains an economizing coil option, the moderate temperature loop water circulated through a core water-source system can provide an inexpensive means to satisfy room comfort without operating the water-source heat pump's compressor.

During economizer mode, fluid enters the unit, and passes by a water temperature sensing bulb. This temperature sensing bulb determines whether the two position, three-way valve will direct the water through the waterside economizing coil, and to the heat pump condenser, or through the condenser only. If the water temperature is 55°F or less, fluid will flow into the economizing coil, while simultaneously halting mechanical operation of the compressor. Mechanical cooling will continue on a call for second stage from the thermostat.



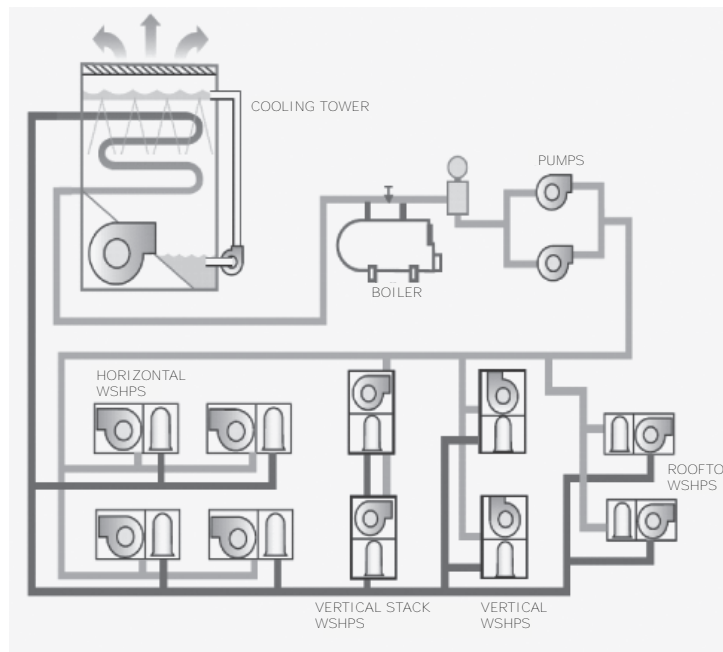
# Application Considerations

## Systems

Water-source heat pump systems are used to provide comfort in a wide range of building types and climates. The system utilizes energy-conserving, heat-recovery capabilities to transfer heat from one area to another to meet individual zone requirements. When used with system design and control strategies, these high-performance systems reduce operating costs for the building owner and improving occupant comfort.

Heat pump units are available in many different configurations and the design simplicity can be adapted to suit almost any building plan. The vertical and horizontal water-source heat pump system is versatile for installation in a boiler/cooling tower applications, as well as ground source (geothermal) applications.

**Figure 3. Conventional water-source heat pump system**



## Boiler/Cooling Tower

In this type of system, units are distributed throughout the building to provide cooling and heating to the space. Units are connected to a water distribution loop which circulated water throughout the building to transfer heat from one area to another. This common water loop yields what is essentially a heat-recovery system. Units providing heating extract heat from loop water while units providing cooling reject heat to the loop. In effect the system recovers and redistributes heat where needed.

Also connected to this water loop are a heat rejecter such as a cooling tower, a heat adder such as a boiler, circulation pumps, and related accessories. Typically, outdoor air is conditioned and delivered by a separate, dedicated ventilation system.

During warm weather when all or most of the units are cooling, the cooling tower is used to dissipate heat from the condensing process. The condensing water is cooled for recirculation back to the water-to-refrigerant heat exchanger by using a combination of heat and mass transfer by evaporation.

A boiler is also used to add heat to the water loop during winter months when most units are heating. The boiler is typically enabled when the water loop temperature falls to a minimum value.

During moderate weather, such as spring or fall, the heat pumps serving the sunny side and interior of the building often operate in cooling mode and reject heat into the water loop. The heat pumps serving the shady side of the building often operate in heating mode and absorb heat from the water loop.

Heat rejected by the units operating in cooling mode is used to offset the heat absorbed by the units in heating mode. In this manner, a WSHP system provides a form of heat recovery and an opportunity to

## Application Considerations

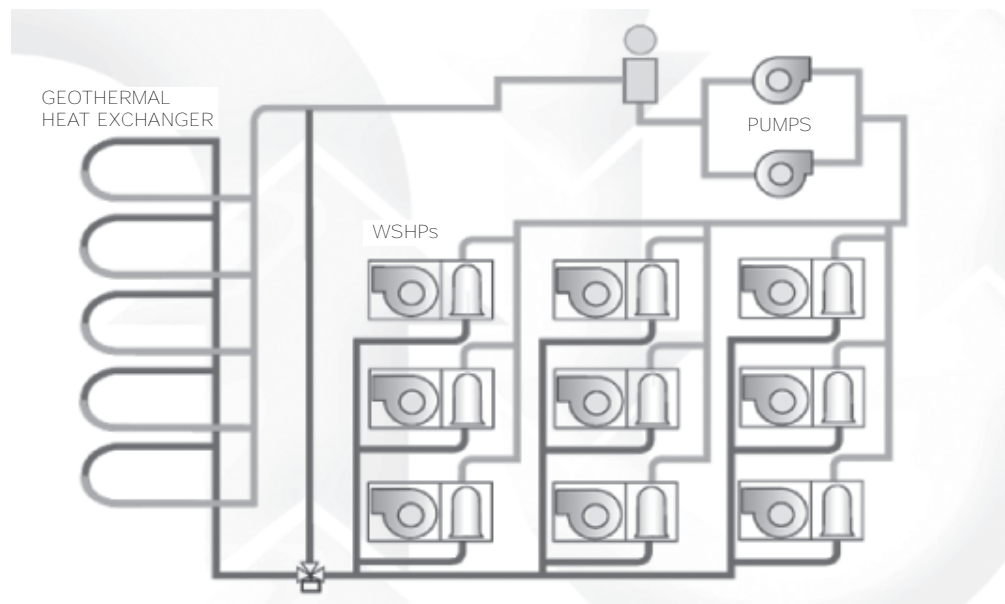
save energy by reducing the need to operate the boiler or cooling tower. For example, if the water temperature stays in the desired range-between 60°F (16°C) and 90°F (32°C)-neither the boiler nor the cooling tower need to operate.

In applications such as office buildings, heat generated by lights, people, and office equipment often results in the need to provide year-round cooling in the interior zones of the building. In these applications, the benefit of this heat recovery further reduces boiler energy use during the winter months.

## Ground Source

The advantages of a geothermal heat pump system can potentially minimize heating and cooling cost by 30 to 40 percent. In this application the cooling tower and boiler are replaced with a ground heat exchanger. The ground heat exchanger is a series of pipes buried in the earth. The earth is used as an energy storage tank. Ground-source heat pump systems offer the potential for saving energy because they can reduce (or eliminate) the energy needed to operate a cooling tower and/or boiler. Eliminating the cooling tower has architectural and maintenance advantages, and eliminating the boiler frees up floor space in the building.

**Figure 4. Ground source heat pump system**



The fluctuating temperatures of fluid from the earth are more stable than air, allowing the equipment to operate at a lower discharge pressure and use fewer kilowatts. The constant earth temperature will heat or cool the fluid running through buried high density polyethylene pipe to provide heating and cooling to a building.

A geothermal loop can be installed either horizontally or vertically. Vertical loops require less overall land area to reject (i.e., sink) the excess heat from the building. Horizontal loops require trenches in the ground spanning a larger overall land area.

Although external piping is the responsibility of the installer and/or piping manufacturer, many electric utilities and rural electric cooperatives are offering monetary incentives to install geothermal systems. Utility companies offer the incentives because of reduced peak loads that flatten out their demand curve over time, and save them money. These savings are ultimately transferred to the consumer.

## Hybrid Systems

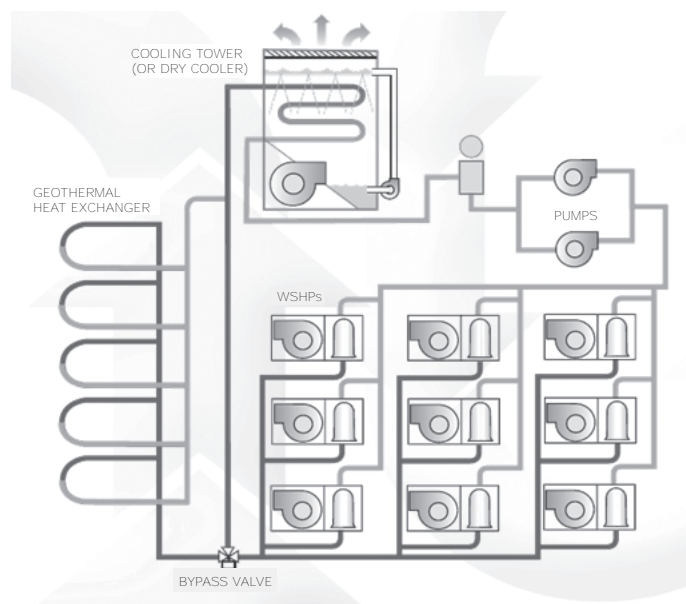
Hybrid systems involve adding a small cooling tower or dry cooler to a ground source system that is installed in a cooling-dominated climate or adding a small boiler to a system in a heating-dominated climate. In either case, the geothermal heat exchanger is sized based on the smaller of the two loads: for the total heat absorbed in a cooling-dominated climate or the total heat rejected in a heating-dominated climate. Then, a small cooling tower (or boiler) is added to reject (or add) the remaining heat.

A hybrid system may also be used in existing buildings with existing ground loops as additional rooms or buildings are added to the system. A cooling tower may be the solution to off-load the peak demand of the new building addition as an example. Other additions may include a requirement for fresh-air ventilation. A fresh-air, air handler, along with a water to water unit may be introduced to the closed loop system to allow tempered fresh-air into the building.

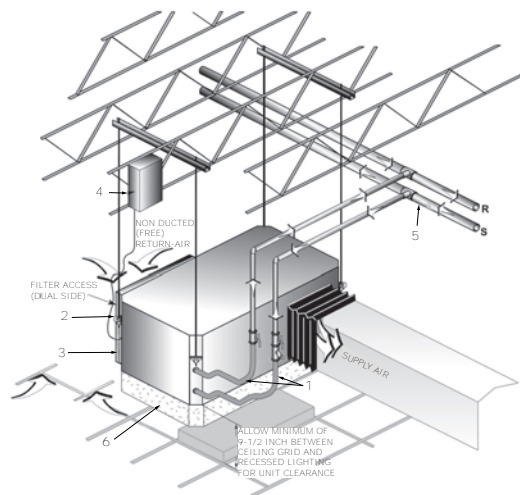
The buildings heating and cooling needs are not based off of one type of component, but perform harmonious of each other. Heat recovery from the loop itself can be shared with the other major components.

Hybrid systems can often make the system more economical, opening up the possibility to reap the potential energy savings.

**Figure 5. Hybrid system**



**Figure 6. Central pumping system**



Units that employ a central pumping system contain single or dual pumps to fulfill pumping requirements for the entire building system.

The central system's supply and return lines should be sized to handle the required flow with a minimum pressure drop.

The water-source heat pump (EX/DXH) may include add-on accessories to help aid in system balancing, acoustics and safety requirements. Some of these items may be ordered from the factory, then field installed. Many are provided by the contractor.

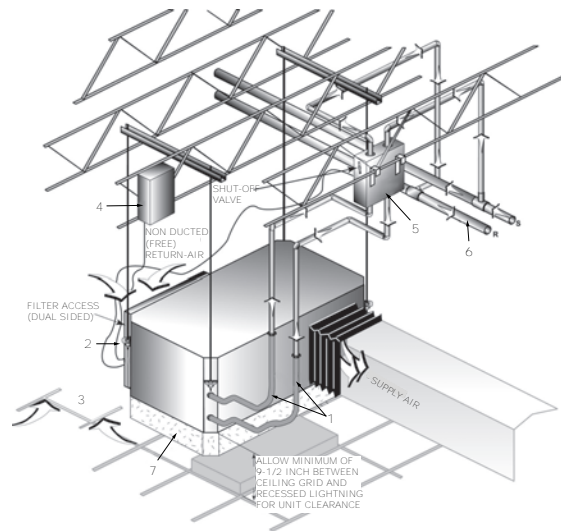
- Hose kits (item 1) are used to connect the water supply and return line to the water inlets and outlets. Trane offers various hose kit combinations to better facilitate system flow balancing. These flexible hoses also aid in the reduction of vibration between the unit and the rigid central piping system.
- A two position isolation valve is often applied to systems which incorporate variable frequency pumping. This valve is capable of stopping/starting water flow to the unit, which in-turn reduces the pumping requirements for the entire system.
- The unit's (item 2) 3/4-inch high voltage and (item 3) 0.5-inch low voltage connections are located on the left chamfered corner of the unit. They are designed to accept conduit.
- A field supplied line voltage disconnect (item 4) should be installed for branch circuit protection. Check local codes for requirements.
- The central system supply and return lines (item 5) should be sized to handle the required flow with a minimum pressure drop.

**Note:** Pipe will sweat if low temperature water is below the dew point of the surrounding space.

Trane recommends that these lines be insulated to prevent damage from condensation when condenser loop is designed to be below 60°F. Equipment installed in attic/crawl space temperatures below 40°F may require antifreeze in the water loop.

- For acoustically sensitive areas, a six-inch deep fiberglass insulation (item 6) is recommended to be field installed below the horizontal unit. This field supplied insulation should be approximately twice the footprint size of the unit. It provides sound damping of the unit while in operation.

**Figure 7. Distributed pumping system**



A distributed pumping system contains either a single or dual pump module, specifically sized for each water-source heat pump, then connected directly to the units supply and return lines. The distributed system's supply and return lines should be sized to handle the required flow with a minimum pressure drop.

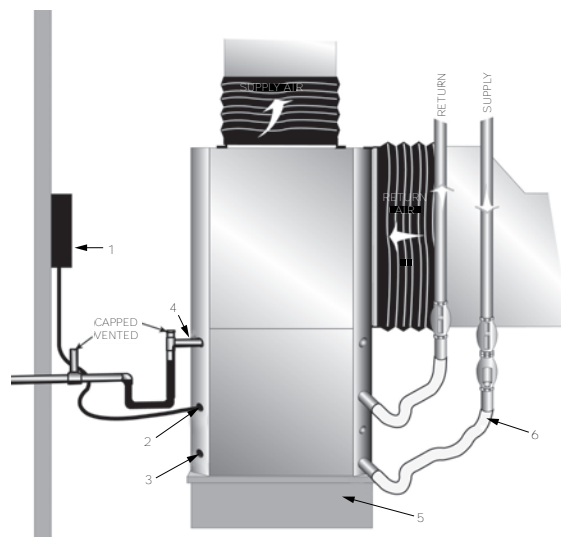
- Hose kits (item 1) are used to connect the water supply and return line to the water inlets and outlets. Trane offers various hose kit combinations to better facilitate system flow balancing. These flexible hoses also aid in the reduction of vibration between the unit and the rigid central piping system.
- The unit's (item 2) 3/4-inch high voltage and (item 3) .5-inch low voltage connections are located on the left chamfered corner of the unit. They are designed to accept conduit.
- A field supplied line voltage disconnect (item 4) should be installed for branch circuit protection. Check local codes for requirements.
- Trane's self-contained pump module (item 5) and hose kit make a complete pumping package for distributed pumping systems. The module is designed for circulating commercial loops that require a maximum flow rate of 20 gpm. Each pump module is fully assembled for connection to water and electrical points. The kit contains all of the necessary components for the installation, operation and maintenance of a closed loop application. See WSHPC-IN-5 (72-9006-03) for electrical and dimensional requirements
- The distributed pumping system supply and return lines (item 6) should be sized to handle the required flow with a minimum pressure drop.

**Note:** Pipe will sweat if low temperature water is below the dew point of the surrounding space.

*Trane recommends that these lines be insulated to prevent damage from condensation when condenser loop is designed to be below 60°F. Equipment installed in attic/crawl space temperatures below 40°F may require antifreeze in the water loop.*

- For acoustically sensitive areas, a six-inch deep fiberglass insulation (item 7) is recommended to be field installed below the horizontal unit. This field supplied insulation should be approximately twice the footprint size of the unit. It provides sound damping of the unit while in operation.

**Figure 8. Installation of the 0.75 to 6 tons vertical**



Whether securing the 0.5 to 6 tons to a central pumping system, or a distributed pumping system, Trane recommends a few accessory considerations to the system installation.

- The field supplied line voltage disconnect (1) should be installed for branch circuit protection.
- The units (2) 3/4-inch high voltage and (3) 0.5-inch low voltage connections are located on the left corner of the unit. They are designed to accept conduit.
- Trane recommends that the condensate system (4) be set-up per negative pressure trapping in consideration of the unit's draw-through design. With this properly trapped system, when condensate forms during normal operation, the water level in the trap rises until there is a constant outflow. Refer to the Axiom™ Installation and Operations manual for negative pressure trapping guidelines.

**Note:** Condensate connection for EXV/DXV models is on the right-hand side of the unit.

- For acoustically sensitive areas, a 0.5-inch thick field provided vibration pad (5) should be installed below the vertical unit. This field provided piece should be equal to the overall foot-print size of the unit to provide sound damping of the unit while in operation.
- Hose kits (6) are used to connect the water supply and return lines to the water inlet and outlets. Trane includes various hose kit combinations to better facilitate system flow balancing. These flexible hoses, reduce vibration between the unit and the rigid piping system.

## Installation Made Easy

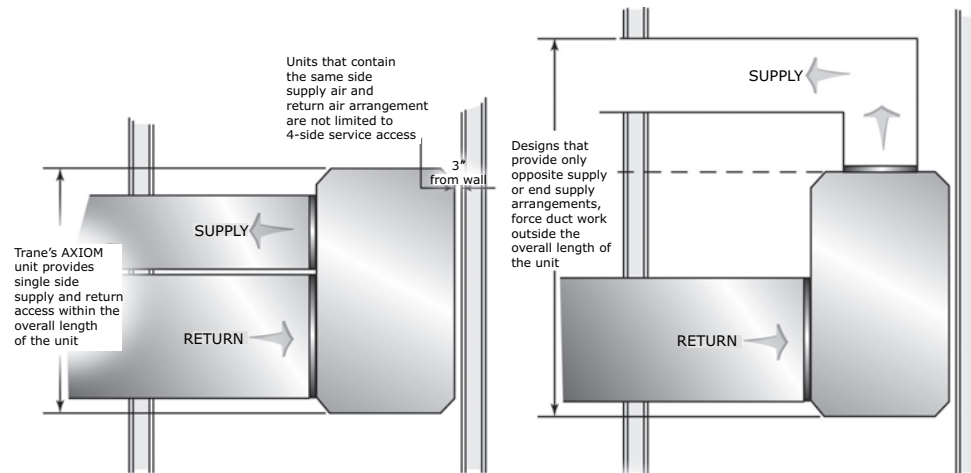
Installing a horizontal unit inside a corridor to enhance sound attenuation provides value to duct design. Trane takes this fact one step further.

The horizontal design offers same side return-air/supply-air access to the unit. This access is contained within the overall dimension of the units length. The unit can be installed closely against a corridor wall without requiring extra space for the duct.

Most horizontal unit designs provide an opposite supply air from the return air arrangement, or an end supply arrangement option. See the end-supply example. An end-supply design increases the overall unit length of the system to accommodate a 90° duct turn. This not only requires added space, but also adds cost in both materials and installation.

Additional value to the design is acquired through the same side supply/return-air design. This design eliminates a requirement for a four-sided service access. When installing the same side return/supply-air access, a small clearance of 3-inch minimum is all that is required between the unit and the wall.



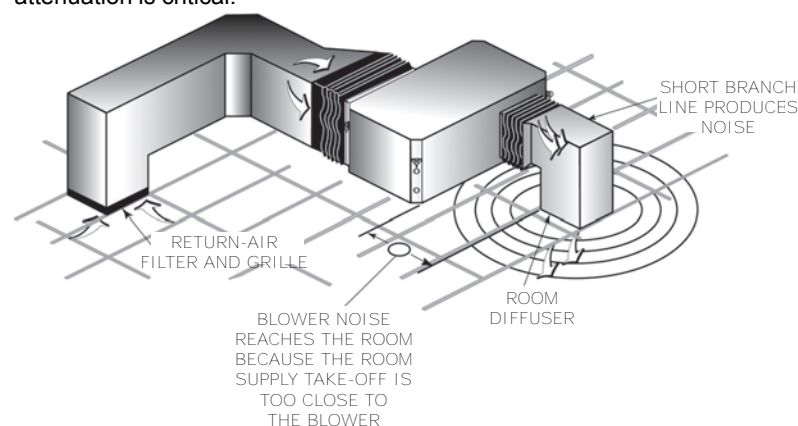


## Duct Design for Noise Control

Proper acoustics are often a design requirement. Most of the problems that are associated with HVAC generated sound can be avoided by properly selecting and locating the components of the system. Acoustical modeling should be used to find the lowest cost design to meet a specific sound requirement, however, there are some general do's and don'ts that should be observed.

## Improper Supply Air-Ducting

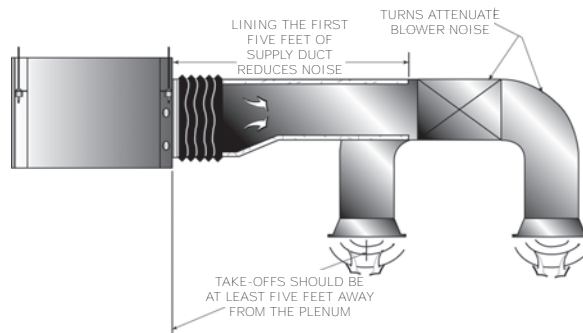
The figure below shows a supply air duct that is placed too close to the blower to provide substantial noise attenuation. It also, represents the effects on sound that a short supply branch connected to the discharge may produce. Avoid these forms of connections when designing ductwork where noise attenuation is critical.



The following suggestions will reduce the amount of sound that reaches the occupied space:

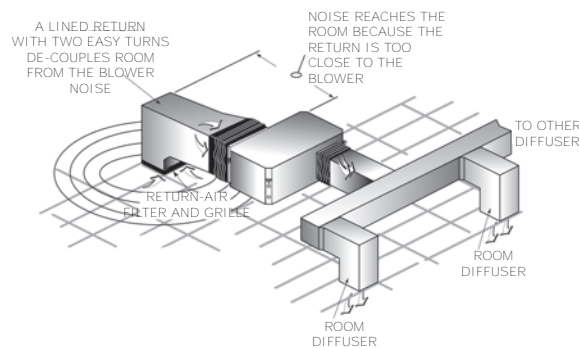
- Design the duct run with two 90° turns
- Line the first 5 feet of the supply trunk
- Line elbows and transition pieces, as well as a short distance upstream and downstream of the fittings
- Use flexible connections to isolate vibrations
- Provide multiple discharges
- Keep duct velocity low

**Figure 9. Desired supply air ducting**



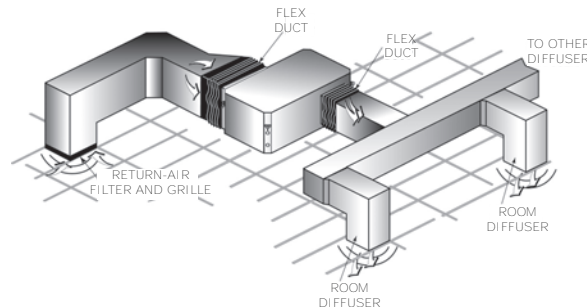
See [Figure 9, p. 26](#) for a positive representation of supply duct work design for noise attenuation on units over 1.5 tons.

**Figure 10. Improper return-air ducting**



Sound control applies to the return side of the duct design as well as the supply side. [Figure 10, p. 26](#) demonstrates a poor installation. Note that the return air opening is close to the cabinet of the unit.

**Figure 11. Proper return-air ducting**



[Figure 11, p. 26](#) graphic represents proper installation of return-air duct. This includes:

- Two 90° bends prior to the intake
- Lining the first 10 feet of the return air duct
- Locating the return-air intake away from the unit blower

A duct system design that takes noise control into account:

- Keeps air flow velocities low
- Uses aerodynamic fittings
- Uses a duct liner if metal duct is applied
- Avoids line-of-sight connections between a noise source and an outlet
- Avoids line-of-sight connection between a noise source and an inlet
- Properly locates balancing dampers
- Seals cracks, seams, and joints in the duct run and equipment panels
- Blocks transmission through walls, ceiling and floors
- Mounts and supports the ductwork with isolation devices that absorb vibration
- Uses flexible duct connections
- Uses flexible braided hoses on the water connections

## Water Flow Control

Trane's Axiom product line features thermal expansion valves on every unit. The operating range for the TXV is between 45°F and 110°F for cooling and between 25°F and 86°F for heating. On systems that expect low water temperatures, a waterside economizer can be employed to eliminate the need to operate the compressors and take full advantage of "free cooling." Water regulating valves are not recommended.

A two-position isolation valve is recommended for use with the Axiom WSHP unit on systems utilizing variable water flow. The two-position isolation valve allows full water flow through the unit when the compressor is in operation. When the compressor is off, the valve closes and shuts off water flow to the unit allowing the system pumps to unload and operate more efficiently. Isolation valves are typically provided as part of the hose kit and connect to the unit terminal strip. A variety of manual and automatic flow control kits including hoses are available as accessories for balancing a water source heat pump system. For a complete product listing, refer to the Hose Kit Accessories product catalog, WSHP-PRC025\*-EN.



# Model Number Description

## Digits 1–3 — Unit Configuration

**EXH** = High Efficiency Horizontal  
**DXH** = Two-stage High Efficiency Horizontal

## Digit 4 — Development Sequence

**F**

## Digits 5–7 — Nominal Capacity

**006** = 0.5 Tons (EX only)  
**009** = 0.75 Tons (EX only)  
**012** = 1 Tons (EX only)  
**015** = 1.25 Tons (EX only)  
**018** = 1.5 Tons (EX only)  
**024** = 2 Tons  
**030** = 2.5 Tons (EX only)  
**036** = 3 Tons  
**042** = 3.5 Tons (EX only)  
**048** = 4 Tons  
**060** = 5 Tons  
**070** = 6 Tons

## Digit 8 — Voltage (Volts/Hz/Phase)

**1** = 208/60/1  
**2** = 230/60/1  
**3** = 208/60/3  
**4** = 460/60/3  
**7** = 265/60/1  
**8** = 230/60/3

## Digit 9 — Heat Exchanger

**1** = Copper-Water Coil  
**2** = Cupro-Nickel Water Coil  
**7** = Insulated Copper-Water Coil/Suction Line  
**8** = Insulated Cupro-Nickel Water Coil/Suction Line

## Digit 10 — Current Design Sequence

## Digit 11 — Refrigeration Circuit

**0** = Heating and Cooling Circuit  
**2** = Heating and Cooling Circuit with Hot Gas Reheat (EX only)  
**3** = Heating and Cooling Circuit with Waterside Economizer (Horizontal only)

## Digit 12 — Blower Configuration

**3** = ECM Motor

## Digit 13 — Freeze Protection

**A** = 20°F Freezestat (For Glycol Loop)  
**B** = 35°F Freezestat (For Water Loop)

## Digit 14 — Open Digit = 0

## Digit 15 — Supply-Air Arrangement

**B** = Back Supply-Air Arrangement  
**L** = Left Supply-Air Arrangement  
**R** = Right Supply-Air Arrangement  
**T** = Top Supply-Air Arrangement

## Digit 16 — Return-Air Arrangement

**L** = Left Return-Air Arrangement  
**R** = Right Return-Air Arrangement

## Digit 17 — Control Types

**D** = Deluxe 24V Controls  
**B** = Tracer® ZN524 Controls  
**F** = UC400  
**G** = UC400 w/Wireless Comm

## Digit 18 — Tstat/Sensor Location

**0** = Wall Mounted Location

## Digit 19 — Fault Sensors

**1** = Condensate Overflow Sensor  
**3** = Condensate Overflow and Filter Maintenance Timer  
**6** = Condensate Overflow and Fan Status  
**J** = Fan Status, Filter Maintenance Timer and Condensate Overflow Sensor

## Digit 20 — Temperature Sensor

**0** = No Additional Temperature Sensor  
**1** = Entering Water Sensor

## Digit 21 — Insulation

**1** = Standard Fiberglass Insulation  
**2** = Foil Faced Insulation in Airstream

## Digit 22 — Electric Heat

**0** = No Electric Heat  
**1** = Internal Boilerless Electric Heat  
**4** = External Boilerless Electric Heat

## Digit 23 — ON/OFF Switch

**0** = No “ON”/“OFF” Switch  
**1** = “ON”/“OFF” Switch (Not available with boilerless electric heat option)

## Digit 24 — Filter Type

**1** = 1" Throwaway Filter  
**2** = 2" Throwaway Filter  
**4** = 2" MERV 8  
**5** = 2" MERV 13

## Digit 25 — Acoustic Arrangement

**0** = Enhanced Sound Attenuation  
**1** = Deluxe Sound Attenuation

## Digits 26–34 — Does Not Apply to EXH/V, DXH/V

**0000000000** = Digits 26–34 are not applicable to the EXH/V or DXH/V products

## Digit 35 — Unit Drain Pan Option

**A** = Polymer Drain Pan  
**B** = Stainless Steel Drain Pan

## Model Number Notes

**Note:** 20°F Freezestat is typically used in a geothermal application. 35°F Freezestat is typically used in a boiler/tower application.

## EXV/DXV Models

### Digits 1–3 — Unit Configuration

**EXV** = High Efficiency Vertical  
**DXV** = Two-stage High Efficiency Vertical

### Digit 4 — Development Sequence

**G**

### Digits 5–7 — Nominal Size (MBH)

**009** = 9.0 MBH (EX only)  
**012** = 12.0 MBH (EX only)  
**015** = 15.0 MBH (EX only)  
**018** = 18.0 MBH (EX only)  
**024** = 24.0 MBH  
**030** = 30.0 MBH (EX only)  
**036** = 36.0 MBH  
**042** = 42.0 MBH (EX only)  
**048** = 48.0 MBH  
**060** = 60.0 MBH  
**070** = 70.0 MBH

### Digit 8 — Voltage (Volts/Hz/Phase)

**4** = 460/60/3  
**7** = 265/60/1  
**A** = 208-230/60/1  
**B** = 208-230/60/3

### Digit 9 — Heat Exchanger

**1** = Copper-Water Coil  
**2** = Cupro-Nickel Water Coil  
**7** = Insulated Copper-Water Coil/Suction Line  
**8** = Insulated Cupro-Nickel Water Coil/Suction Line

### Digit 10 — Design Sequence

**A** = First Design Sequence

### Digit 11 — Refrigeration Circuit

**0** = Heating and Cooling Circuit  
**2** = Heating and Cooling Circuit with Hot Gas Reheat  
**3** = Heating and Cooling Circuit with Waterside Economizer  
**4** = Heating and Cooling Circuit with Waterside Economizer, Hot Gas Reheat

### Digit 12 — Blower Configuration

**K** = Variable ECM Motor, Constant Torque

### Digit 13 — Freeze Protection<sup>2</sup>

**A** = 20°F Freezestat (For Glycol Loop)  
**B** = 35°F Freezestat (For Water Loop)

### Digit 14 — Open Digit = 0

### Digit 15 — Supply-Air Arrangement

**T** = Top Supply-Air Arrangement  
**B** = Back Supply-Air Arrangement

### Digit 16 — Return-Air Arrangement

**L** = Left Return-Air Arrangement  
**R** = Right Return-Air Arrangement

### Digit 17 — Control Types

**B** = Tracer® ZN524 Controls  
**D** = Deluxe 24V Controls  
**H** = UC400/B  
**J** = UC400B w/Air-Fi® Wireless Communications

### Digit 18 — Tstat/Sensor Location

**0** = Wall Mounted Location

### Digit 19 — Fault Sensors

**1** = Condensate Overflow Sensor  
**3** = Condensate Overflow and Filter Maintenance Timer  
**6** = Condensate Overflow and Fan Status  
**J** = Fan Status, Filter Maintenance Timer and Condensate Overflow Sensor

### Digit 20 — Temperature Sensor

**0** = No Additional Temperature Sensor  
**1** = Entering Water Sensor

### Digit 21 — Insulation

**1** = Matte Faced Insulation  
**2** = Foil Faced Insulation

### Digit 23 — Unit Mounted Disconnect

**0** = No Unit Mounted Disconnect  
**2** = Unit Mounted Disconnect

### Digit 24 — Filter Type

**1** = 1-inch Throwaway Filter  
**2** = 2-inch Throwaway Filter  
**4** = 2-inch MERV 8  
**5** = 2-inch MERV 13

### Digit 25 — Acoustic Arrangement

**1** = Standard Sound Attenuation  
**2** = Deluxe Sound Attenuation

### Digits 26–36 — Does Not Apply

**0000000000** = Digits 26-36 are not applicable to the EXV or DXV products

### Digit 37 — Ducted Filter Rack

**0** = Non-ducted filter rack  
**A** = Ducted Filter Rack Side Access/LH-RH  
**C** = Ducted Filter Rack (Bottom/Top Access)

### Digit 38 — Isolation Valve

**0** = No Isolation Valve  
**1** = Factory Mounted Isolation Valve

### Digit 39 — Power Connection

**1** = Single Point  
**2** = Dual Point (Electric Heat Power Separate from Unit)

### Digit 40 — Drain Pan

**A** = Polymer Drain Pan  
**B** = Stainless Steel Drain Pan

### Model Number Note:

#### Notes:

1. Back Supply, Electric Heat and Deluxe Sound options to be available at later product release.
2. 20°F Freezestat is typically used in a geothermal application. 35°F Freezestat is typically used in a boiler/tower application



# General Data

**Table 6. Models EXHF006–024**

| Model EXH                               | 006             | 009             | 012             | 015             | 018             | 024             |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Unit Size depth x length x height (in.) | 20 x 40 x 15    | 20 x 40 x 15    | 20 x 40 x 15    | 20 x 40 x 15    | 23 x 46 x 18    | 23 x 46 x 18    |
| Compressor type                         | Rotary          | Rotary          | Rotary          | Rotary          | Rotary          | Scroll          |
| Net weight (lbs.)                       | 165             | 165             | 173             | 173             | 264             | 269             |
| Ship weight (lbs.)                      | 195             | 195             | 203             | 203             | 284             | 301             |
| Filter size actual (in.)                | 14 5/8 x 20 1/4 | 14 5/8 x 20 1/4 | 14 5/8 x 20 1/4 | 14 5/8 x 20 1/4 | 17 7/8 x 23 7/8 | 17 7/8 x 23 7/8 |
| Water in/out size (FPT)                 | 1/2             | 1/2             | 1/2             | 1/2             | 3/4             | 3/4             |
| Condensate size (NPTI)                  | 3/4             | 3/4             | 3/4             | 3/4             | 3/4             | 3/4             |
| Blower wheel Size (in.)                 | 9 x 4           | 9 x 4           | 9 x 6           | 9 x 6           | 10 x 6          | 10 x 6          |

**Table 7. Models EXHF030-070**

| Model EXH                               | 030             | 036             | 042             | 048             | 060             | 070             |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Unit Size depth x length x height (in.) | 25 x 50 x 19    | 25 x 50 x 19    | 33 x 58 x 21    | 33 x 58 x 21    | 33 x 58 x 21    | 39 x 58 x 21    |
| Compressor type                         | Scroll          | Scroll          | Scroll          | Scroll          | Scroll          | Scroll          |
| Net weight (lbs.)                       | 299             | 313             | 431             | 424             | 444             | 484             |
| Ship weight (lbs.)                      | 329             | 343             | 461             | 454             | 474             | 514             |
| Filter size actual (in.)                | 18 5/8 x 25 3/8 | 18 5/8 x 25 3/8 | 20 5/8 x 29 3/4 | 20 5/8 x 29 3/4 | 20 5/8 x 29 3/4 | 20 5/8 x 29 3/4 |
| Water in/out size (FPT)                 | 3/4             | 3/4             | 1               | 1               | 1               | 1               |
| Condensate size (NPTI)                  | 3/4             | 3/4             | 3/4             | 3/4             | 3/4             | 3/4             |
| Blower wheel Size (in.)                 | 11 x 8          | 11 x 8          | 12 x 11         | 12 x 11         | 12 x 11         | 12 x 11         |

**Table 8. Models DXHF024-070**

| Model DXH                               | 024              | 036              | 048              | 060              | 070              |
|---|------------------|------------------|------------------|------------------|------------------|
| Unit Size depth x length x height (in.) | 23 x 46 x 18     | 25 x 50 x 19     | 33 x 58 x 21     | 33 x 58 x 21     | 39 x 58 x 21     |
| Compressor type                         | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll |
| Net weight (lbs.)                       | 269              | 313              | 424              | 444              | 484              |
| Ship weight (lbs.)                      | 301              | 343              | 454              | 474              | 514              |
| Filter size actual (in.)                | 18 x 24          | 18 3/4 x 25 1/2  | 20 3/4 x 29 7/8  | 20 3/4 x 29 7/8  | 20 3/4 x 29 7/8  |
| Water in/out size (FPT)                 | 3/4              | 3/4              | 1                | 1                | 1                |
| Condensate size (NPTI)                  | 3/4              | 3/4              | 3/4              | 3/4              | 3/4              |
| Blower wheel Size (in.)                 | 10 x 6           | 11 x 8           | 12 x 11          | 12 x 11          | 12 x 11          |

**Table 9. Models EXVG009-030**

| Model EXVG                             | 009              | 012              | 015            | 018            | 024            | 030            |
|--|------------------|------------------|----------------|----------------|----------------|----------------|
| Unit Size width x depth x height (in.) | 21.5 x 21.5 x 34 | 21.5 x 21.5 x 34 | 21.5 x 23 x 36 | 21.5 x 26 x 38 | 21.5 x 26 x 38 | 24 x 32.5 x 42 |
| Compressor type                        | Rotary           | Rotary           | Rotary         | Rotary         | Scroll         | Scroll         |
| Net weight (lbs.)                      | 152              | 152              | 188            | 222            | 236            | 280            |
| Ship weight (lbs.)                     | 207              | 207              | 246            | 282            | 296            | 343            |
| Filter size nominal (in.)              | 16 X 19          | 16 X 19          | 17 X 20        | 18 X 23        | 18 X 23        | 20 X 30        |
| Water in/out size (FPT)                | 0.5              | 0.5              | 0.75           | 0.75           | 0.75           | 1              |

**Table 9. Models EXVG009-030 (continued)**

| Model EXVG              | 009   | 012   | 015    | 018    | 024    | 030     |
|-------------------------|-------|-------|--------|--------|--------|---------|
| Condensate size (NPTI)  | 0.75  | 0.75  | 0.75   | 0.75   | 0.75   | 0.75    |
| Blower wheel Size (in.) | 9 x 8 | 9 x 8 | 10 x 8 | 10 x 9 | 10 x 9 | 11 x 11 |

**Table 10. Models EXVG036-070**

| Model EXVG                             | 036            | 042              | 048              | 060              | 070              |
|--|----------------|------------------|------------------|------------------|------------------|
| Unit Size width x depth x height (in.) | 24 x 32.5 x 42 | 25.4 x 32.5 x 49 | 25.4 x 32.5 x 49 | 25.4 x 32.5 x 55 | 25.4 x 32.5 x 55 |
| Compressor type                        | Scroll         | Scroll           | Scroll           | Scroll           | Scroll           |
| Net weight (lbs.)                      | 281            | 329              | 345              | 367              | 432              |
| Ship weight (lbs.)                     | 344            | 394              | 410              | 436              | 501              |
| Filter size nominal (in.)              | 20 X 30        | 27 X 30          | 27 X 30          | 30 X 33          | 30 X 33          |
| Water in/out size (FPT)                | 1              | 1                | 1                | 1                | 1                |
| Condensate size (NPTI)                 | 0.75           | 0.75             | 0.75             | 0.75             | 0.75             |
| Blower wheel Size (in.)                | 11 x 11        | 11 x 11          | 11 x 11          | 11 x 11          | 11 x 11          |

**Table 11. Models DXVG024-070**

| Model DXVG                             | 024              | 036              | 048              | 060              | 070              |
|--|------------------|------------------|------------------|------------------|------------------|
| Unit Size width x depth x height (in.) | 21.5 x 26 x 38   | 24 x 32.5 x 42   | 25.4 x 32.5 x 49 | 25.4 x 32.5 x 55 | 25.4 x 32.5 x 55 |
| Compressor type                        | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll |
| Net weight (lbs.)                      | 236              | 279              | 354              | 371              | 437              |
| Ship weight (lbs.)                     | 296              | 342              | 419              | 440              | 506              |
| Filter size nominal (in.)              | 18 x 23          | 23 x 30          | 27 x 30          | 30 x 33          | 30 x 33          |
| Water in/out size (FPT)                | 0.75             | 1                | 1                | 1                | 1                |
| Condensate size (NPTI)                 | 0.75             | 0.75             | 0.75             | 0.75             | 0.75             |
| Blower wheel Size (in.)                | 10 x 9           | 11 x 11          | 11 x 11          | 11 x 11          | 11 x 11          |

**Table 12. Models EXHF006-018 air-to-refrigerant coil**

| Model EXH                   | 006           | 009           | 012           | 015           | 018           |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Working pressure (psig)     | 650           | 650           | 650           | 650           | 650           |
| Tubes high                  | 14            | 14            | 14            | 14            | 17            |
| Tubes deep                  | 3             | 3             | 3             | 3             | 3             |
| No. of circuits             | 1             | 1             | 2             | 2             | 2             |
| Finned vol. (h,w,d)         | 14 x 16 x 2.6 | 14 x 16 x 2.6 | 14 x 16 x 2.6 | 14 x 16 x 2.6 | 16 x 19 x 2.6 |
| Coil surface area (Sq. Ft.) | 1.56          | 1.56          | 1.56          | 1.56          | 2.11          |
| Fins per inch               | 12            | 12            | 12            | 12            | 12            |
| Tube Material               | Copper        | Copper        | Copper        | Copper        | Copper        |
| Tube OD (in.)               | 3/8           | 3/8           | 3/8           | 3/8           | 43532         |
| Wall thickness              | 0.014         | 0.014         | 0.014         | 0.014         | 0.014         |
| Return bends                | Copper        | Copper        | Copper        | Copper        | Copper        |

**Table 13. Models EXHF024-070 air-to-refrigerant coil**

| Model EXH                   | 024           | 030           | 036           | 042-060        | 070            |
|-----------------------------|---------------|---------------|---------------|----------------|----------------|
| Working pressure (psig)     | 650           | 650           | 650           | 650            | 650            |
| Tubes high                  | 17            | 18            | 18            | 20             | 20             |
| Tubes deep                  | 4             | 4             | 4             | 4              | 4              |
| No. of circuits             | 4             | 4             | 4             | 5              | 8              |
| Finned vol. (h,w,d)         | 16 x 19 x 2.6 | 18 x 21 x 2.6 | 18 x 21 x 2.6 | 20 x 29 x 3.46 | 20 x 35 x 3.46 |
| Coil surface area (Sq. Ft.) | 2.11          | 2.63          | 2.63          | 4.03           | 4.86           |
| Fins per inch               | 12            | 12            | 12            | 12             | 12             |
| Tube Material               | Copper        | Copper        | Copper        | Copper         | Copper         |
| Tube OD (in.)               | 43532         | 43532         | 43532         | 43532          | 43532          |
| Wall thickness              | 0.014         | 0.014         | 0.014         | 0.014          | 0.014          |
| Return bends                | Copper        | Copper        | Copper        | Copper         | Copper         |

**Table 14. Models DXHF024-070 air-to-refrigerant coil**

| Model DXH                   | 024           | 030           | 036            | 042-060        | 070            |
|-----------------------------|---------------|---------------|----------------|----------------|----------------|
| Working pressure (psig)     | 650           | 650           | 650            | 650            | 650            |
| Tubes high                  | 17            | 18            | 20             | 20             | 20             |
| Tubes deep                  | 4             | 4             | 4              | 4              | 4              |
| No. of circuits             | 4             | 4             | 5              | 5              | 8              |
| Finned vol. (h,w,d)         | 16 x 19 x 2.6 | 18 x 21 x 2.6 | 20 x 29 x 3.46 | 20 x 29 x 3.46 | 20 x 35 x 3.46 |
| Coil surface area (Sq. Ft.) | 2.11          | 2.63          | 4.03           | 4.03           | 4.86           |
| Fins per inch               | 12            | 12            | 12             | 12             | 12             |
| Tube Material               | Copper        | Copper        | Copper         | Copper         | Copper         |
| Tube OD (in.)               | 43532         | 43532         | 43532          | 43532          | 43532          |
| Wall thickness              | 0.014         | 0.014         | 0.014          | 0.014          | 0.014          |
| Return bends                | Copper        | Copper        | Copper         | Copper         | Copper         |

**Table 15. Models EXVG009-070 air-to-refrigerant coil**

| Model EXVG                  | 009-012          | 015              | 018-024          | 030-036          | 042-048          | 060-070          |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Working Pressure (psig)     | 650              | 650              | 650              | 650              | 650              | 650              |
| Tubes High                  | 16               | 17               | 20               | 20               | 27               | 33               |
| Tubes Deep                  | 3                | 3                | 3                | 3                | 3                | 3                |
| No. of Circuits             | 1                | 2                | 3                | 5                | 5                | 6                |
| Finned vol. (h,w,d)         | 16 x 17.25 x 2.6 | 17 x 18.75 x 2.6 | 18 x 21.75 x 2.6 | 20 x 28.25 x 2.6 | 27 x 28.25 x 2.6 | 33 x 28.25 x 2.6 |
| Coil Surface Area (Sq. Ft.) | 1.92             | 2.21             | 3.02             | 3.92             | 5.3              | 6.47             |
| Fins per Inch               | 14               | 14               | 14               | 14               | 14               | 14               |
| Tube Material               | Copper           | Copper           | Copper           | Copper           | Copper           | Copper           |
| Tube OD (in.)               | 0.375            | 0.375            | 0.375            | 0.375            | 0.375            | 0.375            |
| Wall Thickness              | 0.014            | 0.014            | 0.014            | 0.014            | 0.014            | 0.014            |
| Return Bends                | Copper           | Copper           | Copper           | Copper           | Copper           | Copper           |

**Table 16. Models DXVG024-070 air-to-refrigerant coil**

| Model DXVG              | 024 | 036 | 048 | 060 | 070 |
|-------------------------|-----|-----|-----|-----|-----|
| Working Pressure (psig) | 650 | 650 | 650 | 650 | 650 |
| Tubes High              | 20  | 20  | 27  | 33  | 33  |



**Table 16. Models DXVG024-070 air-to-refrigerant coil (continued)**

| <b>Model DXVG</b>           | <b>024</b>       | <b>036</b>       | <b>048</b>       | <b>060</b>       | <b>070</b>       |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|
| Tubes Deep                  | 3                | 3                | 3                | 3                | 3                |
| No. of Circuits             | 3                | 5                | 5                | 6                | 6                |
| Finned vol. (h,w,d)         | 18 x 21.75 x 2.6 | 20 x 28.25 x 2.6 | 27 x 28.25 x 2.6 | 33 x 28.25 x 2.6 | 33 x 28.25 x 2.6 |
| Coil Surface Area (Sq. Ft.) | 3.02             | 3.92             | 5.3              | 6.47             | 6.47             |
| Fins per Inch               | 14               | 14               | 14               | 14               | 14               |
| Tube Material               | Copper           | Copper           | Copper           | Copper           | Copper           |
| Tube OD (in.)               | 0.375            | 0.375            | 0.375            | 0.375            | 0.375            |
| Wall Thickness              | 0.014            | 0.014            | 0.014            | 0.014            | 0.014            |
| Return Bends                | Copper           | Copper           | Copper           | Copper           | Copper           |



# Performance Data

Table 17. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - 0.5 to 6 tons

| Model   | Rated GPM | Rated CFM | Water Loop Heat Pump |       |               |      | Ground Water Heat Pump |       |               |      | Ground Loop Heat Pump |       |                |      |
|---------|-----------|-----------|----------------------|-------|---------------|------|------------------------|-------|---------------|------|-----------------------|-------|----------------|------|
|         |           |           | Cooling 86°F         |       | Heating 68°F  |      | Cooling 59°F           |       | Heating 50°F  |      | Full Cool 77°F        |       | Full Heat 32°F |      |
|         |           |           | Capacity Btuh        | EER   | Capacity Btuh | COP  | Capacity Btuh          | EER   | Capacity Btuh | COP  | Capacity Btuh         | EER   | Capacity Btuh  | COP  |
| EXHF006 | 1.8       | 215       | 7,400                | 14.21 | 8,600         | 4.68 | 8,000                  | 19.68 | 7,400         | 4.20 | 7,800                 | 16.48 | 5,600          | 3.25 |
| EXHF009 | 2.1       | 285       | 8,800                | 14.11 | 10,800        | 5.15 | 9,100                  | 18.42 | 8,900         | 4.49 | 9,100                 | 16.00 | 6,800          | 3.63 |
| EXHF012 | 2.8       | 380       | 11,500               | 14.62 | 14,300        | 4.98 | 13,700                 | 25.08 | 11,700        | 4.31 | 12,400                | 17.73 | 8,800          | 3.45 |
| EXHF015 | 3.5       | 475       | 15,100               | 14.49 | 18,300        | 4.58 | 17,500                 | 23.68 | 15,200        | 4.01 | 15,900                | 16.95 | 11,300         | 3.25 |
| EXHF018 | 4.2       | 570       | 18,800               | 15.74 | 23,300        | 4.87 | 19,200                 | 21.03 | 19,100        | 4.30 | 19,800                | 17.71 | 14,200         | 3.44 |
| EXHF024 | 5.6       | 760       | 23,800               | 16.00 | 27,700        | 4.80 | 25,900                 | 23.80 | 24,100        | 4.50 | 24,700                | 18.00 | 17,900         | 3.60 |
| EXHF030 | 7.0       | 950       | 28,300               | 16.41 | 34,400        | 5.38 | 32,200                 | 24.30 | 28,000        | 4.60 | 29,700                | 18.70 | 21,100         | 3.70 |
| EXHF036 | 8.4       | 1140      | 34,600               | 17.00 | 42,700        | 5.40 | 39,700                 | 25.80 | 35,500        | 4.80 | 36,400                | 19.10 | 26,700         | 3.78 |
| EXHF042 | 9.8       | 1330      | 42,000               | 16.80 | 50,500        | 5.30 | 45,800                 | 23.30 | 42,000        | 4.70 | 43,500                | 18.50 | 32,500         | 3.89 |
| EXHF048 | 11.2      | 1520      | 46,700               | 16.10 | 59,000        | 5.30 | 50,600                 | 22.40 | 46,900        | 4.56 | 47,900                | 17.70 | 36,300         | 3.76 |
| EXHF060 | 14.0      | 1700      | 54,400               | 13.85 | 74,300        | 4.65 | 61,700                 | 21.02 | 61,500        | 4.19 | 57,400                | 16.31 | 48,100         | 3.52 |
| EXHF070 | 15.4      | 2090      | 65,000               | 14.00 | 80,500        | 4.46 | 70,700                 | 20.70 | 65,500        | 3.95 | 67,500                | 16.45 | 48,300         | 3.20 |
| EXVG009 | 2.25      | 285       | 7900                 | 16.10 | 9900          | 5.6  | 8800                   | 25.0  | 8200          | 4.8  | 8300                  | 18.8  | 6100           | 3.7  |
| EXVG012 | 3.00      | 380       | 11600                | 16.40 | 15200         | 5.8  | 13700                  | 27.9  | 12300         | 5.0  | 12300                 | 19.5  | 9300           | 4.0  |
| EXVG015 | 3.75      | 475       | 15100                | 16.10 | 18700         | 5.3  | 17000                  | 25.8  | 15300         | 4.6  | 15800                 | 19.0  | 12100          | 3.8  |
| EXVG018 | 4.50      | 570       | 18800                | 17.60 | 23600         | 5.7  | 21100                  | 28.7  | 18800         | 4.9  | 19600                 | 20.6  | 14600          | 4.1  |
| EXVG024 | 6.00      | 760       | 24600                | 17.40 | 32100         | 5.7  | 27400                  | 27.2  | 25900         | 5.0  | 25600                 | 20.3  | 19500          | 3.9  |
| EXVG030 | 7.50      | 950       | 31400                | 17.80 | 38400         | 5.8  | 35000                  | 27.2  | 31000         | 5.0  | 32800                 | 20.7  | 23600          | 4.1  |
| EXVG036 | 9.00      | 1140      | 35500                | 17.60 | 43100         | 5.8  | 39400                  | 26.5  | 35000         | 5.0  | 37100                 | 20.4  | 27200          | 4.1  |
| EXVG042 | 10.50     | 1330      | 38400                | 18.00 | 48000         | 6.4  | 43300                  | 27.5  | 38500         | 5.5  | 40500                 | 21.1  | 29400          | 4.3  |
| EXVG048 | 12.00     | 1520      | 45400                | 17.70 | 55600         | 6.1  | 50400                  | 26.4  | 44800         | 5.3  | 47100                 | 20.3  | 34600          | 4.3  |
| EXVG060 | 15.00     | 1900      | 55700                | 17.50 | 69000         | 5.9  | 60800                  | 25.7  | 55900         | 5.1  | 57700                 | 20.1  | 42900          | 4.1  |
| EXVG070 | 17.50     | 2215      | 63800                | 17.30 | 82100         | 5.40 | 68900                  | 24.90 | 66900         | 4.80 | 66100                 | 19.80 | 52000          | 4.10 |

Note: Rated in accordance ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6°F DB/66.2°F WB EAT in cooling and 68°F DB/59°F WB EAT in heating.  
Entering liquid temperature in cooling is 86°F for Water Loop, 77°F for Ground Loop (full load), 68°F for Ground Loop (part load), and 59°F for Ground Water.  
Entering liquid temperature in heating is 68°F for Water Loop, 32°F for Ground Loop (full load), 41°F for Ground Loop (part load), and 50°F for Ground Water.

Table 18. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - 2 to 6 tons

| Model   | Load | Rated GPM | Rated CFM | Water Loop Heat Pump |      |               |     | Ground Water Heat Pump |      |               |     | Ground Loop Heat Pump |      |                |     |
|---------|------|-----------|-----------|----------------------|------|---------------|-----|------------------------|------|---------------|-----|-----------------------|------|----------------|-----|
|         |      |           |           | Cooling 86°F         |      | Heating 68°F  |     | Cooling 59°F           |      | Heating 50°F  |     | Full Cool 77°F        |      | Full Heat 32°F |     |
|         |      |           |           | Capacity Btuh        | EER  | Capacity Btuh | COP | Capacity Btuh          | EER  | Capacity Btuh | COP | Capacity Btuh         | EER  | Capacity Btuh  | COP |
| DXHF024 | Part | 5.6       | 608       | 19,600               | 19.4 | 23,800        | 5.9 | 22,200                 | 32.2 | 18,900        | 4.9 | 21,500                | 27.7 | 16,000         | 4.2 |
| DXHF024 | Full | 5.6       | 760       | 26,200               | 17.7 | 31,700        | 5.4 | 29,100                 | 26.0 | 25,600        | 4.7 | 27,400                | 20.4 | 18,700         | 3.8 |
| DXHF036 | Part | 8.4       | 912       | 27,700               | 18.8 | 34,400        | 5.7 | 31,200                 | 31.5 | 28,200        | 5.1 | 30,200                | 27.2 | 24,000         | 4.3 |
| DXHF036 | Full | 8.4       | 1140      | 37,400               | 16.3 | 47,500        | 5.1 | 41,800                 | 24.1 | 39,500        | 4.7 | 39,100                | 18.7 | 29,200         | 3.8 |
| DXHF048 | Part | 11.2      | 1216      | 38,200               | 19.2 | 46,400        | 5.9 | 42,800                 | 31.6 | 37,500        | 4.9 | 41,100                | 26.7 | 32,700         | 4.4 |
| DXHF048 | Full | 11.2      | 1520      | 51,200               | 17.2 | 62,400        | 5.4 | 56,600                 | 24.7 | 50,800        | 4.8 | 53,000                | 19.5 | 38,800         | 3.9 |
| DXHF060 | Part | 14.0      | 1360      | 44,100               | 17.0 | 59,700        | 5.6 | 50,400                 | 27.2 | 48,100        | 4.8 | 48,800                | 23.8 | 41,100         | 4.2 |
| DXHF060 | Full | 14.0      | 1700      | 59,300               | 15.1 | 82,000        | 5.1 | 66,800                 | 20.9 | 67,400        | 4.6 | 62,100                | 17.2 | 50,800         | 3.8 |
| DXHF070 | Part | 15.4      | 1672      | 52,500               | 17.0 | 67,100        | 5.2 | 58,300                 | 27.6 | 54,600        | 4.5 | 56,600                | 23.7 | 47,900         | 4.1 |

**Table 18. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - 2 to 6 tons (continued)**

| Model   | Load | Rated GPM | Rated CFM | Water Loop Heat Pump |      |               |     | Ground Water Heat Pump |      |               |     | Ground Loop Heat Pump |      |                |     |
|---------|------|-----------|-----------|----------------------|------|---------------|-----|------------------------|------|---------------|-----|-----------------------|------|----------------|-----|
|         |      |           |           | Cooling 86°F         |      | Heating 68°F  |     | Cooling 59°F           |      | Heating 50°F  |     | Full Cool 77°F        |      | Full Heat 32°F |     |
|         |      |           |           | Capacity Btuh        | EER  | Capacity Btuh | COP | Capacity Btuh          | EER  | Capacity Btuh | COP | Capacity Btuh         | EER  | Capacity Btuh  | COP |
| DXHF070 | Full | 15.4      | 2090      | 67,800               | 15.5 | 88,300        | 4.9 | 74,100                 | 22.1 | 72,700        | 4.5 | 70,400                | 17.6 | 56,800         | 3.8 |
| DXVG024 | Full | 6.0       | 760       | 24700                | 16.8 | 32100         | 5.5 | 27500                  | 24.4 | 25700         | 4.9 | 25900                 | 19.2 | 19400          | 3.9 |
| DXVG024 | Part | 6.0       | 608       | 18500                | 17.7 | 24100         | 5.9 | 20500                  | 28.3 | 18900         | 4.9 | 20000                 | 24.5 | 16300          | 4.3 |
| DXVG036 | Full | 9.0       | 1140      | 33000                | 17.3 | 40900         | 5.9 | 37100                  | 25.1 | 32900         | 5.1 | 34500                 | 19.7 | 25500          | 4.1 |
| DXVG036 | Part | 9.0       | 912       | 24500                | 18.3 | 30500         | 6.3 | 27600                  | 29.3 | 24300         | 5.2 | 26600                 | 25.2 | 21100          | 4.5 |
| DXVG048 | Full | 12.0      | 1520      | 45200                | 17.9 | 55200         | 6.1 | 50400                  | 26.4 | 44400         | 5.3 | 46600                 | 20.6 | 34500          | 4.3 |
| DXVG048 | Part | 12.0      | 1216      | 32800                | 18.7 | 40000         | 6.6 | 36900                  | 31.2 | 31900         | 5.3 | 35700                 | 26.7 | 28000          | 4.7 |
| DXVG060 | Full | 15.0      | 1900      | 52100                | 17.6 | 63900         | 6.0 | 56600                  | 24.8 | 51700         | 5.2 | 53900                 | 19.9 | 39800          | 4.2 |
| DXVG060 | Part | 15.0      | 1520      | 38300                | 18.7 | 47300         | 6.6 | 42000                  | 29.9 | 37800         | 5.4 | 41000                 | 25.8 | 32400          | 4.6 |
| DXVG070 | Full | 17.5      | 2215      | 64400                | 17.3 | 82700         | 5.4 | 69100                  | 23.8 | 67400         | 4.8 | 66800                 | 19.6 | 52900          | 4.0 |
| DXVG070 | Part | 17.5      | 1772      | 47100                | 18.9 | 59700         | 6.0 | 51100                  | 29.7 | 48000         | 5.0 | 50000                 | 25.6 | 42000          | 4.4 |

**Note:** Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6°F DB/66.2°F WB EAT in cooling and 68°F DB/59°F WB EAT in heating. Entering liquid temperature in cooling is 86°F for Water Loop, 77°F for Ground Loop (full load), 68°F for Ground Loop (part load), and 59°F for Ground Water. Entering liquid temperature in heating is 68°F for Water Loop, 32°F for Ground Loop (full load), 41°F for Ground Loop (part load), and 50°F for Ground Water.

## Cooling and Heating Capacities 0.5 tons

**Table 19. Cooling capacities 0.5 tons (gross) - EXHF006**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 1.1 | 8.84        | 6.55      | 0.74 | 0.370    | 23.9 | 10.10        | 63.4 | 1.9       |
| 45  | 1.4 | 8.91        | 6.58      | 0.74 | 0.357    | 25.0 | 10.13        | 59.5 | 2.9       |
| 45  | 1.6 | 8.94        | 6.59      | 0.74 | 0.351    | 25.5 | 10.14        | 57.7 | 3.7       |
| 45  | 1.7 | 8.95        | 6.59      | 0.74 | 0.348    | 25.7 | 10.14        | 56.9 | 4.1       |
| 45  | 1.8 | 9.06        | 6.64      | 0.73 | 0.351    | 25.8 | 10.26        | 56.4 | 4.6       |
| 45  | 1.9 | 9.07        | 6.64      | 0.73 | 0.350    | 25.9 | 10.26        | 55.8 | 5.0       |
| 45  | 2.0 | 9.11        | 6.67      | 0.73 | 0.349    | 26.1 | 10.30        | 55.3 | 5.5       |
| 55  | 1.1 | 8.52        | 6.41      | 0.75 | 0.402    | 21.2 | 9.89         | 73.0 | 1.8       |
| 55  | 1.4 | 8.59        | 6.44      | 0.75 | 0.388    | 22.1 | 9.91         | 69.2 | 2.8       |
| 55  | 1.6 | 8.62        | 6.45      | 0.75 | 0.382    | 22.6 | 9.92         | 67.4 | 3.6       |
| 55  | 1.7 | 8.63        | 6.45      | 0.75 | 0.379    | 22.8 | 9.92         | 66.7 | 4.0       |
| 55  | 1.8 | 8.66        | 6.47      | 0.75 | 0.378    | 22.9 | 9.95         | 66.1 | 4.4       |
| 55  | 1.9 | 8.65        | 6.46      | 0.75 | 0.375    | 23.1 | 9.93         | 65.5 | 4.8       |
| 55  | 2.0 | 8.69        | 6.48      | 0.75 | 0.374    | 23.2 | 9.97         | 65.0 | 5.3       |
| 68  | 1.1 | 8.20        | 6.28      | 0.77 | 0.457    | 17.9 | 9.76         | 85.7 | 1.8       |
| 68  | 1.4 | 8.26        | 6.31      | 0.76 | 0.442    | 18.7 | 9.77         | 82.0 | 2.7       |
| 68  | 1.6 | 8.29        | 6.31      | 0.76 | 0.435    | 19.1 | 9.77         | 80.2 | 3.4       |
| 68  | 1.7 | 8.30        | 6.32      | 0.76 | 0.432    | 19.2 | 9.77         | 79.5 | 3.8       |
| 68  | 1.8 | 8.33        | 6.34      | 0.76 | 0.430    | 19.4 | 9.80         | 78.9 | 4.2       |
| 68  | 1.9 | 8.32        | 6.33      | 0.76 | 0.427    | 19.5 | 9.78         | 78.3 | 4.6       |
| 68  | 2.0 | 8.36        | 6.35      | 0.76 | 0.426    | 19.6 | 9.81         | 77.8 | 5.0       |
| 75  | 1.1 | 8.05        | 6.22      | 0.77 | 0.495    | 16.3 | 9.74         | 92.7 | 1.7       |



## Performance Data

**Table 19. Cooling capacities 0.5 tons (gross) - EXHF006 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 75  | 1.4 | 8.11        | 6.25      | 0.77 | 0.477    | 17.0 | 9.74         | 88.9  | 2.6       |
| 75  | 1.6 | 8.14        | 6.26      | 0.77 | 0.469    | 17.4 | 9.74         | 87.2  | 3.3       |
| 75  | 1.7 | 8.15        | 6.26      | 0.77 | 0.466    | 17.5 | 9.74         | 86.5  | 3.7       |
| 75  | 1.8 | 8.16        | 6.27      | 0.77 | 0.463    | 17.6 | 9.74         | 85.8  | 4.1       |
| 75  | 1.9 | 8.17        | 6.26      | 0.77 | 0.461    | 17.7 | 9.74         | 85.3  | 4.5       |
| 75  | 2.0 | 8.15        | 6.26      | 0.77 | 0.458    | 17.8 | 9.71         | 84.7  | 4.9       |
| 77  | 1.1 | 8.01        | 6.20      | 0.77 | 0.507    | 15.8 | 9.74         | 94.7  | 1.7       |
| 77  | 1.4 | 8.06        | 6.22      | 0.77 | 0.489    | 16.5 | 9.73         | 90.9  | 2.6       |
| 77  | 1.6 | 8.08        | 6.23      | 0.77 | 0.479    | 16.9 | 9.71         | 89.1  | 3.3       |
| 77  | 1.7 | 8.10        | 6.24      | 0.77 | 0.477    | 17.0 | 9.73         | 88.4  | 3.7       |
| 77  | 1.8 | 8.11        | 6.25      | 0.77 | 0.474    | 17.1 | 9.73         | 87.8  | 4.1       |
| 77  | 1.9 | 8.12        | 6.25      | 0.77 | 0.471    | 17.2 | 9.73         | 87.2  | 4.5       |
| 77  | 2.0 | 8.13        | 6.25      | 0.77 | 0.469    | 17.3 | 9.73         | 86.7  | 4.9       |
| 86  | 1.1 | 7.81        | 6.11      | 0.78 | 0.562    | 13.9 | 9.73         | 103.7 | 1.7       |
| 86  | 1.4 | 7.86        | 6.14      | 0.78 | 0.542    | 14.5 | 9.71         | 99.9  | 2.5       |
| 86  | 1.6 | 7.88        | 6.15      | 0.78 | 0.534    | 14.8 | 9.70         | 98.1  | 3.2       |
| 86  | 1.7 | 7.89        | 6.15      | 0.78 | 0.530    | 14.9 | 9.70         | 97.4  | 3.6       |
| 86  | 1.8 | 7.90        | 6.16      | 0.78 | 0.527    | 15.0 | 9.70         | 96.8  | 3.9       |
| 86  | 1.9 | 7.91        | 6.16      | 0.78 | 0.524    | 15.1 | 9.70         | 96.2  | 4.3       |
| 86  | 2.0 | 7.91        | 6.16      | 0.78 | 0.522    | 15.2 | 9.69         | 95.7  | 4.7       |
| 95  | 1.1 | 7.58        | 6.03      | 0.80 | 0.625    | 12.1 | 9.71         | 112.7 | 1.7       |
| 95  | 1.4 | 7.62        | 6.05      | 0.79 | 0.605    | 12.6 | 9.68         | 108.8 | 2.6       |
| 95  | 1.6 | 7.64        | 6.05      | 0.79 | 0.596    | 12.8 | 9.67         | 107.1 | 3.3       |
| 95  | 1.7 | 7.65        | 6.05      | 0.79 | 0.592    | 12.9 | 9.67         | 106.4 | 3.7       |
| 95  | 1.8 | 7.66        | 6.05      | 0.79 | 0.587    | 13.0 | 9.66         | 105.7 | 4.1       |
| 95  | 1.9 | 7.66        | 6.06      | 0.79 | 0.584    | 13.1 | 9.65         | 105.2 | 4.5       |
| 95  | 2.0 | 7.64        | 6.05      | 0.79 | 0.579    | 13.2 | 9.62         | 104.6 | 5.0       |
| 105 | 1.1 | 7.28        | 5.90      | 0.81 | 0.705    | 10.3 | 9.69         | 122.6 | 1.7       |
| 105 | 1.4 | 7.31        | 5.92      | 0.81 | 0.683    | 10.7 | 9.64         | 118.8 | 2.6       |
| 105 | 1.6 | 7.34        | 5.93      | 0.81 | 0.675    | 10.9 | 9.64         | 117.1 | 3.3       |
| 105 | 1.7 | 7.35        | 5.94      | 0.81 | 0.670    | 11.0 | 9.64         | 116.3 | 3.6       |
| 105 | 1.8 | 7.35        | 5.94      | 0.81 | 0.667    | 11.0 | 9.63         | 115.7 | 4.0       |
| 105 | 1.9 | 7.36        | 5.94      | 0.81 | 0.664    | 11.1 | 9.63         | 115.1 | 4.4       |
| 105 | 2.0 | 7.36        | 5.94      | 0.81 | 0.660    | 11.2 | 9.61         | 114.6 | 4.8       |
| 110 | 1.1 | 7.11        | 5.84      | 0.82 | 0.758    | 9.4  | 9.70         | 127.6 | 1.7       |
| 110 | 1.4 | 7.15        | 5.85      | 0.82 | 0.736    | 9.7  | 9.66         | 123.8 | 2.5       |
| 110 | 1.6 | 7.17        | 5.86      | 0.82 | 0.725    | 9.9  | 9.64         | 122.1 | 3.2       |
| 110 | 1.7 | 7.16        | 5.86      | 0.82 | 0.716    | 10.0 | 9.60         | 121.3 | 3.6       |
| 110 | 1.8 | 7.18        | 5.86      | 0.82 | 0.717    | 10.0 | 9.63         | 120.7 | 4.0       |
| 110 | 1.9 | 7.17        | 5.86      | 0.82 | 0.709    | 10.1 | 9.59         | 120.1 | 4.3       |
| 110 | 2.0 | 7.18        | 5.87      | 0.82 | 0.710    | 10.1 | 9.60         | 119.6 | 4.8       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated CFM. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 1.8, Rated CFM 215, Minimum CFM 172, Maximum CFM 237.

**Table 20. Heating capacities 0.5 tons (gross) - EXHF006**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 1.7 | 5.44          | 3.82         | 0.476    | 3.3 | 20.5 | 4.9       |
| 25  | 1.8 | 5.47          | 3.85         | 0.476    | 3.4 | 20.7 | 5.4       |
| 25  | 1.9 | 5.49          | 3.86         | 0.477    | 3.4 | 20.9 | 5.9       |
| 25  | 2.0 | 5.52          | 3.89         | 0.477    | 3.4 | 21.1 | 6.5       |
| 32  | 1.1 | 5.79          | 4.15         | 0.481    | 3.5 | 24.5 | 2.2       |
| 32  | 1.4 | 5.95          | 4.30         | 0.484    | 3.6 | 25.9 | 3.4       |
| 32  | 1.6 | 6.02          | 4.37         | 0.484    | 3.6 | 26.5 | 4.3       |
| 32  | 1.7 | 6.06          | 4.40         | 0.485    | 3.7 | 26.8 | 4.8       |
| 32  | 1.8 | 6.10          | 4.44         | 0.486    | 3.7 | 27.1 | 5.3       |
| 32  | 1.9 | 6.13          | 4.47         | 0.486    | 3.7 | 27.3 | 5.8       |
| 32  | 2.0 | 6.15          | 4.49         | 0.487    | 3.7 | 27.5 | 6.3       |
| 45  | 1.1 | 7.03          | 5.31         | 0.503    | 4.1 | 35.3 | 1.9       |
| 45  | 1.4 | 7.23          | 5.50         | 0.507    | 4.2 | 37.1 | 2.9       |
| 45  | 1.6 | 7.33          | 5.59         | 0.509    | 4.2 | 38.0 | 3.7       |
| 45  | 1.7 | 7.38          | 5.64         | 0.510    | 4.2 | 38.4 | 4.1       |
| 45  | 1.8 | 7.41          | 5.67         | 0.511    | 4.2 | 38.7 | 4.6       |
| 45  | 1.9 | 7.45          | 5.70         | 0.512    | 4.3 | 39.0 | 5.0       |
| 45  | 2.0 | 7.46          | 5.72         | 0.511    | 4.3 | 39.3 | 5.5       |
| 55  | 1.1 | 7.95          | 6.17         | 0.522    | 4.5 | 43.8 | 1.8       |
| 55  | 1.4 | 8.21          | 6.41         | 0.528    | 4.6 | 45.8 | 2.8       |
| 55  | 1.6 | 8.29          | 6.48         | 0.530    | 4.6 | 46.9 | 3.6       |
| 55  | 1.7 | 8.34          | 6.53         | 0.531    | 4.6 | 47.3 | 4.0       |
| 55  | 1.8 | 8.39          | 6.57         | 0.532    | 4.6 | 47.7 | 4.4       |
| 55  | 1.9 | 8.42          | 6.60         | 0.533    | 4.6 | 48.1 | 4.8       |
| 55  | 2.0 | 8.46          | 6.64         | 0.534    | 4.6 | 48.4 | 5.3       |
| 68  | 1.1 | 9.16          | 7.28         | 0.550    | 4.9 | 54.8 | 1.8       |
| 68  | 1.4 | 9.40          | 7.51         | 0.554    | 5.0 | 57.3 | 2.7       |
| 68  | 1.6 | 9.57          | 7.67         | 0.558    | 5.0 | 58.4 | 3.4       |
| 68  | 1.7 | 9.57          | 7.67         | 0.558    | 5.0 | 59.0 | 3.8       |
| 68  | 1.8 | 9.65          | 7.74         | 0.560    | 5.0 | 59.4 | 4.2       |
| 68  | 1.9 | 9.69          | 7.78         | 0.561    | 5.1 | 59.8 | 4.6       |
| 68  | 2.0 | 9.76          | 7.84         | 0.563    | 5.1 | 60.2 | 5.0       |
| 75  | 1.1 | 9.78          | 7.86         | 0.563    | 5.1 | 60.7 | 1.7       |
| 75  | 1.4 | 10.06         | 8.11         | 0.570    | 5.2 | 63.4 | 2.6       |
| 75  | 1.6 | 10.24         | 8.28         | 0.574    | 5.2 | 64.7 | 3.3       |
| 75  | 1.7 | 10.27         | 8.31         | 0.575    | 5.2 | 65.2 | 3.7       |
| 75  | 1.8 | 10.30         | 8.34         | 0.575    | 5.2 | 65.7 | 4.1       |
| 75  | 1.9 | 10.36         | 8.39         | 0.577    | 5.3 | 66.2 | 4.5       |
| 75  | 2.0 | 10.42         | 8.44         | 0.579    | 5.3 | 66.6 | 4.9       |
| 77  | 1.1 | 9.96          | 8.02         | 0.568    | 5.1 | 62.4 | 1.7       |
| 77  | 1.4 | 10.26         | 8.30         | 0.574    | 5.2 | 65.1 | 2.6       |
| 77  | 1.6 | 10.38         | 8.41         | 0.577    | 5.3 | 66.5 | 3.3       |
| 77  | 1.7 | 10.43         | 8.46         | 0.578    | 5.3 | 67.0 | 3.7       |



## Performance Data

**Table 20. Heating capacities 0.5 tons (gross) - EXHF006 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 77  | 1.8 | 10.52         | 8.54         | 0.581    | 5.3 | 67.5 | 4.1       |
| 77  | 1.9 | 10.56         | 8.57         | 0.582    | 5.3 | 68.0 | 4.5       |
| 77  | 2.0 | 10.61         | 8.62         | 0.583    | 5.3 | 68.4 | 4.9       |
| 86  | 1.1 | 10.76         | 8.75         | 0.588    | 5.4 | 70.1 | 1.7       |
| 86  | 1.4 | 11.10         | 9.07         | 0.596    | 5.5 | 73.0 | 2.5       |
| 86  | 1.6 | 11.26         | 9.21         | 0.600    | 5.5 | 74.5 | 3.2       |
| 86  | 1.7 | 11.33         | 9.27         | 0.603    | 5.5 | 75.1 | 3.6       |
| 86  | 1.8 | 11.39         | 9.33         | 0.604    | 5.5 | 75.6 | 3.9       |
| 86  | 1.9 | 11.42         | 9.36         | 0.604    | 5.5 | 76.1 | 4.3       |
| 86  | 2.0 | 11.47         | 9.41         | 0.605    | 5.6 | 76.6 | 4.7       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 1.8, Rated CFM 215, Minimum CFM 172, Maximum CFM 237.

**Table 21. Fan correction factors 0.5 tons - EXHF006**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 172          | 0.956            | 0.878             | 1.002               | 0.982            | 1.093               |
| 194          | 0.979            | 0.939             | 1.000               | 0.995            | 1.041               |
| 215          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 237          | 1.018            | 1.060             | 1.000               | 1.012            | 0.970               |

**Table 22. Correction factors for variation in entering air temperature 0.5 tons, EXHF006**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.899               | 1.045                     | 0.979                                     | 1.048 | 1.121 | *     | *     | 53.0                            | 1.031               | 0.879                  |
| 56.3                            | 0.898               | 1.045                     | 0.819                                     | 1.013 | 1.119 | *     | *     | 58.0                            | 1.022               | 0.919                  |
| 60.3                            | 0.898               | 1.045                     | 0.627                                     | 0.849 | 1.064 | *     | *     | 63.0                            | 1.014               | 0.960                  |
| 63.2                            | 0.960               | 1.015                     | 0.480                                     | 0.706 | 0.928 | 1.139 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.553 | 0.778 | 1.000 | 1.209 | 73.0                            | 0.996               | 1.049                  |
| 72.1                            | 1.061               | 0.975                     | —   | —     | 0.541 | 0.695 | 0.920 | 78.0                            | 0.987               | 1.095                  |
| 77.1                            | 1.139               | 0.967                     | —   | —     | —     | 0.446 | 0.658 | 83.0                            | 0.978               | 1.143                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 0.75 tons

**Table 23. Cooling capacities 0.75 tons (gross) - EXHF009**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 1.4 | 10.61       | 8.05      | 0.76 | 0.430    | 24.7 | 12.37        | 56.2 | 2.1       |
| 45  | 1.7 | 10.75       | 8.10      | 0.75 | 0.423    | 25.4 | 12.41        | 55.8 | 2.9       |
| 45  | 1.9 | 10.82       | 8.13      | 0.75 | 0.420    | 25.8 | 12.44        | 55.0 | 3.6       |
| 45  | 2.1 | 10.87       | 8.15      | 0.75 | 0.416    | 26.1 | 11.73        | 71.8 | 4.3       |
| 45  | 2.2 | 10.95       | 8.17      | 0.75 | 0.417    | 26.3 | 11.80        | 68.9 | 4.6       |
| 45  | 2.3 | 10.99       | 8.19      | 0.75 | 0.416    | 26.4 | 11.85        | 67.5 | 5.0       |
| 45  | 2.5 | 11.03       | 8.21      | 0.74 | 0.414    | 26.6 | 11.88        | 66.3 | 5.8       |

**Table 23. Cooling capacities 0.75 tons (gross) - EXHF009 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 55  | 1.4 | 10.16       | 7.87      | 0.77 | 0.460    | 22.1 | 11.91        | 65.8  | 2.0       |
| 55  | 1.7 | 10.26       | 7.91      | 0.77 | 0.450    | 22.8 | 11.95        | 65.4  | 2.8       |
| 55  | 1.9 | 10.33       | 7.94      | 0.77 | 0.446    | 23.2 | 11.94        | 64.6  | 3.4       |
| 55  | 2.1 | 10.37       | 7.95      | 0.77 | 0.443    | 23.4 | 11.48        | 84.4  | 4.1       |
| 55  | 2.2 | 10.40       | 7.96      | 0.77 | 0.442    | 23.5 | 11.51        | 81.5  | 4.4       |
| 55  | 2.3 | 10.44       | 7.97      | 0.76 | 0.441    | 23.7 | 11.51        | 80.1  | 4.8       |
| 55  | 2.5 | 10.45       | 7.98      | 0.76 | 0.438    | 23.9 | 11.54        | 79.0  | 5.6       |
| 68  | 1.4 | 9.72        | 7.70      | 0.79 | 0.517    | 18.8 | 11.55        | 78.5  | 1.9       |
| 68  | 1.7 | 9.79        | 7.73      | 0.79 | 0.505    | 19.4 | 11.55        | 78.0  | 2.7       |
| 68  | 1.9 | 9.81        | 7.74      | 0.79 | 0.499    | 19.7 | 11.56        | 77.2  | 3.3       |
| 68  | 2.1 | 9.85        | 7.75      | 0.79 | 0.494    | 19.9 | 11.40        | 91.3  | 3.9       |
| 68  | 2.2 | 9.87        | 7.77      | 0.79 | 0.492    | 20.1 | 11.41        | 88.4  | 4.2       |
| 68  | 2.3 | 9.88        | 7.76      | 0.79 | 0.490    | 20.2 | 11.41        | 87.0  | 4.6       |
| 68  | 2.5 | 9.90        | 7.77      | 0.78 | 0.487    | 20.3 | 11.41        | 85.9  | 5.3       |
| 75  | 1.4 | 9.49        | 7.61      | 0.80 | 0.559    | 17.0 | 11.41        | 85.4  | 1.9       |
| 75  | 1.7 | 9.55        | 7.64      | 0.80 | 0.545    | 17.5 | 11.42        | 84.9  | 2.6       |
| 75  | 1.9 | 9.58        | 7.64      | 0.80 | 0.536    | 17.9 | 11.42        | 84.1  | 3.2       |
| 75  | 2.1 | 9.60        | 7.66      | 0.80 | 0.531    | 18.1 | 11.38        | 93.3  | 3.8       |
| 75  | 2.2 | 9.61        | 7.66      | 0.80 | 0.528    | 18.2 | 11.37        | 90.4  | 4.1       |
| 75  | 2.3 | 9.62        | 7.66      | 0.80 | 0.526    | 18.3 | 11.39        | 89.0  | 4.5       |
| 75  | 2.5 | 9.64        | 7.67      | 0.80 | 0.523    | 18.4 | 11.39        | 87.8  | 5.2       |
| 77  | 1.4 | 9.43        | 7.59      | 0.80 | 0.571    | 16.5 | 11.39        | 87.4  | 1.9       |
| 77  | 1.7 | 9.47        | 7.61      | 0.80 | 0.556    | 17.0 | 11.39        | 86.9  | 2.6       |
| 77  | 1.9 | 9.51        | 7.62      | 0.80 | 0.550    | 17.3 | 11.38        | 86.1  | 3.2       |
| 77  | 2.1 | 9.53        | 7.63      | 0.80 | 0.544    | 17.5 | 11.32        | 102.2 | 3.8       |
| 77  | 2.2 | 9.54        | 7.63      | 0.80 | 0.542    | 17.6 | 11.29        | 99.3  | 4.1       |
| 77  | 2.3 | 9.55        | 7.63      | 0.80 | 0.540    | 17.7 | 11.29        | 97.9  | 4.4       |
| 77  | 2.5 | 9.56        | 7.64      | 0.80 | 0.534    | 17.9 | 11.27        | 96.7  | 5.1       |
| 86  | 1.4 | 9.15        | 7.49      | 0.82 | 0.636    | 14.4 | 11.26        | 96.2  | 1.8       |
| 86  | 1.7 | 9.18        | 7.50      | 0.82 | 0.619    | 14.8 | 11.27        | 95.8  | 2.5       |
| 86  | 1.9 | 9.20        | 7.50      | 0.82 | 0.611    | 15.1 | 11.27        | 95.0  | 3.1       |
| 86  | 2.1 | 9.21        | 7.51      | 0.82 | 0.604    | 15.2 | 11.34        | 111.2 | 3.7       |
| 86  | 2.2 | 9.21        | 7.51      | 0.82 | 0.601    | 15.3 | 11.30        | 108.3 | 4.0       |
| 86  | 2.3 | 9.23        | 7.52      | 0.81 | 0.599    | 15.4 | 11.27        | 106.9 | 4.3       |
| 86  | 2.5 | 9.24        | 7.52      | 0.81 | 0.595    | 15.5 | 11.25        | 105.7 | 5.0       |
| 95  | 1.4 | 8.89        | 7.37      | 0.83 | 0.718    | 12.4 | 11.25        | 105.2 | 1.7       |
| 95  | 1.7 | 8.91        | 7.39      | 0.83 | 0.700    | 12.7 | 11.24        | 104.8 | 2.3       |
| 95  | 1.9 | 8.92        | 7.39      | 0.83 | 0.690    | 12.9 | 11.22        | 104.0 | 2.9       |
| 95  | 2.1 | 8.92        | 7.39      | 0.83 | 0.683    | 13.1 | 11.51        | 121.4 | 3.4       |
| 95  | 2.2 | 8.93        | 7.39      | 0.83 | 0.680    | 13.1 | 11.42        | 118.4 | 3.7       |
| 95  | 2.3 | 8.93        | 7.40      | 0.83 | 0.676    | 13.2 | 11.36        | 117.0 | 4.0       |
| 95  | 2.5 | 8.93        | 7.39      | 0.83 | 0.672    | 13.3 | 11.35        | 115.8 | 4.6       |
| 105 | 1.4 | 8.64        | 7.28      | 0.84 | 0.841    | 10.3 | 11.34        | 115.3 | 1.6       |



## Performance Data

**Table 23. Cooling capacities 0.75 tons (gross) - EXHF009 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 105 | 1.7 | 8.63        | 7.28      | 0.84 | 0.817    | 10.6 | 11.32        | 114.8 | 2.3       |
| 105 | 1.9 | 8.62        | 7.26      | 0.84 | 0.804    | 10.7 | 11.29        | 114.0 | 2.8       |
| 105 | 2.1 | 8.63        | 7.28      | 0.84 | 0.796    | 10.8 | 11.76        | 126.8 | 3.3       |
| 105 | 2.2 | 8.63        | 7.28      | 0.84 | 0.793    | 10.9 | 11.66        | 123.7 | 3.6       |
| 105 | 2.3 | 8.62        | 7.27      | 0.84 | 0.790    | 10.9 | 11.53        | 122.1 | 3.9       |
| 105 | 2.5 | 8.62        | 7.27      | 0.84 | 0.783    | 11.0 | 11.57        | 121.0 | 4.5       |
| 110 | 1.4 | 8.55        | 7.24      | 0.85 | 0.941    | 9.1  | 11.53        | 120.5 | 1.6       |
| 110 | 1.7 | 8.54        | 7.24      | 0.85 | 0.915    | 9.3  | 11.48        | 120.0 | 2.2       |
| 110 | 1.9 | 8.50        | 7.22      | 0.85 | 0.888    | 9.6  | 11.51        | 119.2 | 2.7       |
| 110 | 2.1 | 8.53        | 7.24      | 0.85 | 0.890    | 9.6  | 9.60         | 121.3 | 3.3       |
| 110 | 2.2 | 8.52        | 7.24      | 0.85 | 0.881    | 9.7  | 9.63         | 120.7 | 3.5       |
| 110 | 2.3 | 8.50        | 7.22      | 0.85 | 0.873    | 9.7  | 9.59         | 120.1 | 3.8       |
| 110 | 2.5 | 8.52        | 7.23      | 0.85 | 0.876    | 9.7  | 9.60         | 119.6 | 4.4       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 2.1, Rated CFM 285, Minimum CFM 228, Maximum CFM 314.

**Table 24. Heating capacities 0.75 tons (gross) - EXHF009**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 2.1 | 6.23          | 4.44         | 0.525    | 3.5 | 20.8 | 5.7       |
| 25  | 2.2 | 6.25          | 4.45         | 0.526    | 3.5 | 21.0 | 6.2       |
| 25  | 2.3 | 6.27          | 4.47         | 0.526    | 3.5 | 21.1 | 6.7       |
| 25  | 2.5 | 6.32          | 4.52         | 0.527    | 3.5 | 21.4 | 7.8       |
| 32  | 1.4 | 6.65          | 4.83         | 0.533    | 3.7 | 25.1 | 2.8       |
| 32  | 1.7 | 6.81          | 4.98         | 0.536    | 3.7 | 26.1 | 3.9       |
| 32  | 1.9 | 6.89          | 5.05         | 0.538    | 3.8 | 26.7 | 4.7       |
| 32  | 2.1 | 6.95          | 5.11         | 0.538    | 3.8 | 27.1 | 5.6       |
| 32  | 2.2 | 6.99          | 5.15         | 0.540    | 3.8 | 27.3 | 6.0       |
| 32  | 2.3 | 7.02          | 5.18         | 0.540    | 3.8 | 27.5 | 6.5       |
| 32  | 2.5 | 7.06          | 5.21         | 0.541    | 3.8 | 27.8 | 7.5       |
| 45  | 1.4 | 8.13          | 6.23         | 0.557    | 4.3 | 36.1 | 2.1       |
| 45  | 1.7 | 8.31          | 6.40         | 0.560    | 4.3 | 37.5 | 2.9       |
| 45  | 1.9 | 8.41          | 6.50         | 0.561    | 4.4 | 38.2 | 3.6       |
| 45  | 2.1 | 8.49          | 6.57         | 0.563    | 4.4 | 38.7 | 4.3       |
| 45  | 2.2 | 8.54          | 6.62         | 0.563    | 4.4 | 39.0 | 4.6       |
| 45  | 2.3 | 8.56          | 6.64         | 0.563    | 4.5 | 39.2 | 5.0       |
| 45  | 2.5 | 8.63          | 6.70         | 0.565    | 4.5 | 39.6 | 5.8       |
| 55  | 1.4 | 9.22          | 7.26         | 0.573    | 4.7 | 44.6 | 2.0       |
| 55  | 1.7 | 9.44          | 7.47         | 0.577    | 4.8 | 46.2 | 2.8       |
| 55  | 1.9 | 9.54          | 7.57         | 0.578    | 4.8 | 47.0 | 3.4       |
| 55  | 2.1 | 9.69          | 7.71         | 0.581    | 4.9 | 47.7 | 4.1       |
| 55  | 2.2 | 9.72          | 7.73         | 0.582    | 4.9 | 48.0 | 4.4       |
| 55  | 2.3 | 9.73          | 7.75         | 0.580    | 4.9 | 48.3 | 4.8       |
| 55  | 2.5 | 9.83          | 7.84         | 0.582    | 4.9 | 48.7 | 5.6       |



**Table 24. Heating capacities 0.75 tons (gross) - EXHF009 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 68  | 1.4 | 10.66         | 8.64         | 0.593    | 5.3 | 55.7 | 1.9       |
| 68  | 1.7 | 10.97         | 8.93         | 0.598    | 5.4 | 57.5 | 2.7       |
| 68  | 1.9 | 11.11         | 9.06         | 0.601    | 5.4 | 58.5 | 3.3       |
| 68  | 2.1 | 11.23         | 9.17         | 0.603    | 5.5 | 59.3 | 3.9       |
| 68  | 2.2 | 11.25         | 9.19         | 0.603    | 5.5 | 59.6 | 4.2       |
| 68  | 2.3 | 11.29         | 9.23         | 0.604    | 5.5 | 60.0 | 4.6       |
| 68  | 2.5 | 11.39         | 9.32         | 0.606    | 5.5 | 60.5 | 5.3       |
| 75  | 1.4 | 11.49         | 9.41         | 0.608    | 5.5 | 61.6 | 1.9       |
| 75  | 1.7 | 11.80         | 9.71         | 0.613    | 5.6 | 63.6 | 2.6       |
| 75  | 1.9 | 11.93         | 9.83         | 0.615    | 5.7 | 64.7 | 3.2       |
| 75  | 2.1 | 12.08         | 9.97         | 0.619    | 5.7 | 65.5 | 3.8       |
| 75  | 2.2 | 12.17         | 10.05        | 0.621    | 5.7 | 65.9 | 4.1       |
| 75  | 2.3 | 12.18         | 10.06        | 0.620    | 5.8 | 66.3 | 4.5       |
| 75  | 2.5 | 12.26         | 10.14        | 0.622    | 5.8 | 66.9 | 5.2       |
| 77  | 1.4 | 11.72         | 9.63         | 0.612    | 5.6 | 63.2 | 1.9       |
| 77  | 1.7 | 12.03         | 9.92         | 0.618    | 5.7 | 65.3 | 2.6       |
| 77  | 1.9 | 12.19         | 10.07        | 0.621    | 5.8 | 66.4 | 3.2       |
| 77  | 2.1 | 12.31         | 10.18        | 0.623    | 5.8 | 67.3 | 3.8       |
| 77  | 2.2 | 12.35         | 10.22        | 0.623    | 5.8 | 67.7 | 4.1       |
| 77  | 2.3 | 12.42         | 10.29        | 0.625    | 5.8 | 68.1 | 4.4       |
| 77  | 2.5 | 12.52         | 10.38        | 0.627    | 5.9 | 68.7 | 5.1       |
| 86  | 1.4 | 12.78         | 10.62        | 0.633    | 5.9 | 70.8 | 1.8       |
| 86  | 1.7 | 13.10         | 10.92        | 0.640    | 6.0 | 73.2 | 2.5       |
| 86  | 1.9 | 13.26         | 11.07        | 0.642    | 6.1 | 74.3 | 3.1       |
| 86  | 2.1 | 13.38         | 11.18        | 0.645    | 6.1 | 75.4 | 3.7       |
| 86  | 2.2 | 13.46         | 11.25        | 0.647    | 6.1 | 75.8 | 4.0       |
| 86  | 2.3 | 13.54         | 11.32        | 0.649    | 6.1 | 76.2 | 4.3       |
| 86  | 2.5 | 13.65         | 11.42        | 0.652    | 6.1 | 76.9 | 5.0       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 2.1, Rated CFM 285, Minimum CFM 228, Maximum CFM 314.

**Table 25. Fan correction factors 0.75 tons - EXHF009**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 228          | 0.960            | 0.876             | 1.003               | 0.984            | 1.087               |
| 257          | 0.982            | 0.937             | 1.002               | 0.990            | 1.036               |
| 285          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 314          | 1.017            | 1.060             | 1.001               | 1.003            | 0.969               |

**Table 26. Correction factors for variation in entering air temperature 0.75 tons, EXHF009**

| Cooling Entering Air WB°F | Cooling capacity | Cooling Input Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |      |      | Heating Entering Air DB°F | Heating capacity | Heating Input Watts |
|---------------------------|------------------|---------------------|---|-------|-------|------|------|---------------------------|------------------|---------------------|
|                           |                  |                     | 65.6                                      | 70.6  | 75.6  | 80.6 | 85.6 |                           |                  |                     |
| 49.4                      | 0.949            | 1.020               | 0.952                                     | 1.031 | 1.103 | *    | *    | 53.0                      | 1.030            | 0.879               |
| 56.3                      | 0.948            | 1.021               | 0.805                                     | 0.951 | 1.102 | *    | *    | 58.0                      | 1.018            | 0.915               |



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**Table 26. Correction factors for variation in entering air temperature 0.75 tons, EXHF009 (continued)**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 60.3                            | 0.947               | 1.021                     | 0.605                                     | 0.838 | 1.059 | *     | *     | 63.0                            | 1.007               | 0.956                  |
| 63.2                            | 0.947               | 1.019                     | 0.455                                     | 0.690 | 0.923 | 1.138 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.534 | 0.767 | 1.000 | 1.221 | 73.0                            | 0.992               | 1.046                  |
| 72.1                            | 1.074               | 0.969                     | —   | —     | 0.452 | 0.686 | 0.915 | 78.0                            | 0.983               | 1.098                  |
| 77.1                            | 1.127               | 0.950                     | —   | —     | —     | 0.408 | 0.644 | 83.0                            | 0.979               | 1.153                  |

Note: \* = Sensible equals total capacity

**Table 27. Cooling capacities 0.75 tons (gross) - EXVG009**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------------|--------------|------|-----------|
| 45  | 1.5 | 9.8         | 7.9       | 0.81 | 0.28           | 10.8         | 59.4 | 2.1       |
| 45  | 1.8 | 9.8         | 7.9       | 0.81 | 0.27           | 10.7         | 56.9 | 2.9       |
| 45  | 2.0 | 9.8         | 7.9       | 0.81 | 0.27           | 10.7         | 55.7 | 3.6       |
| 45  | 2.3 | 9.8         | 7.9       | 0.81 | 0.26           | 10.7         | 54.5 | 4.4       |
| 45  | 2.4 | 9.8         | 7.9       | 0.81 | 0.26           | 10.7         | 53.9 | 5.0       |
| 45  | 2.5 | 9.8         | 7.9       | 0.81 | 0.25           | 10.7         | 53.6 | 5.3       |
| 45  | 2.7 | 9.9         | 8.0       | 0.81 | 0.25           | 10.8         | 53.0 | 6.1       |
| 55  | 1.5 | 9.5         | 7.8       | 0.82 | 0.35           | 10.7         | 69.3 | 1.9       |
| 55  | 1.8 | 9.5         | 7.8       | 0.82 | 0.33           | 10.6         | 66.8 | 2.7       |
| 55  | 2.0 | 9.5         | 7.8       | 0.82 | 0.33           | 10.6         | 65.6 | 3.3       |
| 55  | 2.3 | 9.6         | 7.9       | 0.82 | 0.32           | 10.7         | 64.5 | 4.1       |
| 55  | 2.4 | 9.6         | 7.9       | 0.82 | 0.32           | 10.7         | 63.9 | 4.6       |
| 55  | 2.5 | 9.6         | 7.9       | 0.82 | 0.32           | 10.7         | 63.6 | 4.9       |
| 55  | 2.7 | 9.6         | 7.9       | 0.82 | 0.31           | 10.7         | 62.9 | 5.6       |
| 68  | 1.5 | 9.1         | 7.6       | 0.84 | 0.42           | 10.5         | 82.0 | 1.7       |
| 68  | 1.8 | 9.1         | 7.6       | 0.84 | 0.40           | 10.5         | 79.7 | 2.4       |
| 68  | 2.0 | 9.1         | 7.6       | 0.84 | 0.40           | 10.5         | 78.5 | 3.0       |
| 68  | 2.3 | 9.2         | 7.7       | 0.84 | 0.39           | 10.5         | 77.3 | 3.7       |
| 68  | 2.4 | 9.2         | 7.7       | 0.84 | 0.39           | 10.5         | 76.8 | 4.2       |
| 68  | 2.5 | 9.2         | 7.7       | 0.84 | 0.39           | 10.5         | 76.4 | 4.5       |
| 68  | 2.7 | 9.2         | 7.7       | 0.84 | 0.38           | 10.5         | 75.8 | 5.1       |
| 75  | 1.5 | 8.8         | 7.5       | 0.85 | 0.45           | 10.3         | 88.7 | 1.7       |
| 75  | 1.8 | 8.9         | 7.6       | 0.85 | 0.44           | 10.4         | 86.6 | 2.4       |
| 75  | 2.0 | 8.9         | 7.6       | 0.85 | 0.43           | 10.4         | 85.4 | 2.9       |
| 75  | 2.3 | 8.9         | 7.6       | 0.85 | 0.42           | 10.3         | 84.2 | 3.6       |
| 75  | 2.4 | 8.9         | 7.6       | 0.85 | 0.42           | 10.3         | 83.6 | 4.0       |
| 75  | 2.5 | 8.9         | 7.6       | 0.85 | 0.42           | 10.3         | 83.2 | 4.3       |
| 75  | 2.7 | 8.9         | 7.6       | 0.85 | 0.42           | 10.3         | 82.6 | 4.9       |
| 86  | 1.5 | 8.4         | 7.3       | 0.87 | 0.51           | 10.1         | 99.5 | 1.6       |
| 86  | 1.8 | 8.4         | 7.3       | 0.87 | 0.50           | 10.1         | 97.2 | 2.2       |
| 86  | 2.0 | 8.4         | 7.3       | 0.87 | 0.49           | 10.1         | 96.1 | 2.7       |

**Table 27. Cooling capacities 0.75 tons (gross) - EXVG009 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 2.3 | 8.4         | 7.3       | 0.87 | 0.49        | 10.1         | 95.0  | 3.4       |
| 86  | 2.4 | 8.4         | 7.3       | 0.87 | 0.48        | 10.0         | 94.3  | 3.8       |
| 86  | 2.5 | 8.4         | 7.3       | 0.87 | 0.48        | 10.0         | 94.0  | 4.1       |
| 86  | 2.7 | 8.5         | 7.4       | 0.87 | 0.48        | 10.1         | 93.5  | 4.7       |
| 95  | 1.5 | 7.9         | 7.1       | 0.90 | 0.57        | 9.9          | 108.2 | 1.5       |
| 95  | 1.8 | 7.9         | 7.1       | 0.90 | 0.56        | 9.8          | 105.9 | 2.2       |
| 95  | 2.0 | 8.0         | 7.1       | 0.89 | 0.56        | 9.9          | 104.9 | 2.6       |
| 95  | 2.3 | 8.0         | 7.1       | 0.89 | 0.55        | 9.9          | 103.8 | 3.3       |
| 95  | 2.4 | 8.0         | 7.1       | 0.89 | 0.55        | 9.9          | 103.3 | 3.7       |
| 95  | 2.5 | 8.0         | 7.1       | 0.89 | 0.54        | 9.9          | 102.9 | 4.0       |
| 95  | 2.7 | 8.0         | 7.1       | 0.89 | 0.54        | 9.8          | 102.3 | 4.5       |
| 105 | 1.5 | 7.4         | 6.8       | 0.92 | 0.66        | 9.6          | 117.8 | 1.5       |
| 105 | 1.8 | 7.4         | 6.8       | 0.92 | 0.64        | 9.6          | 115.7 | 2.1       |
| 105 | 2.0 | 7.4         | 6.8       | 0.92 | 0.64        | 9.6          | 114.6 | 2.6       |
| 105 | 2.3 | 7.4         | 6.8       | 0.92 | 0.63        | 9.6          | 113.5 | 3.2       |
| 105 | 2.4 | 7.4         | 6.8       | 0.92 | 0.63        | 9.5          | 112.9 | 3.6       |
| 105 | 2.5 | 7.4         | 6.8       | 0.92 | 0.63        | 9.5          | 112.6 | 3.9       |
| 105 | 2.7 | 7.5         | 6.9       | 0.92 | 0.62        | 9.6          | 112.1 | 4.4       |
| 115 | 1.5 | 6.8         | 6.6       | 0.97 | 0.75        | 9.4          | 127.5 | 1.5       |
| 115 | 1.8 | 6.8         | 6.6       | 0.97 | 0.74        | 9.3          | 125.3 | 2.1       |
| 115 | 2.0 | 6.8         | 6.6       | 0.97 | 0.73        | 9.3          | 124.3 | 2.5       |
| 115 | 2.3 | 6.8         | 6.6       | 0.97 | 0.72        | 9.3          | 123.3 | 3.1       |
| 115 | 2.4 | 6.8         | 6.6       | 0.97 | 0.72        | 9.3          | 122.8 | 3.5       |
| 115 | 2.5 | 6.8         | 6.6       | 0.97 | 0.72        | 9.2          | 122.4 | 3.8       |
| 115 | 2.7 | 6.9         | 6.7       | 0.97 | 0.71        | 9.3          | 121.9 | 4.3       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 2.25; Minimum CFM 228; Rated CFM 285; Maximum CFM 342.

**Table 28. Heating capacities 0.75 tons (gross) - EXVG009**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 1.5 | 4.7           | 3.2          | 0.45        | 20.7 | 2.6       |
| 25  | 1.8 | 4.9           | 3.4          | 0.45        | 21.2 | 3.7       |
| 25  | 2.0 | 4.9           | 3.4          | 0.45        | 21.6 | 4.5       |
| 25  | 2.3 | 5.0           | 3.5          | 0.45        | 21.9 | 5.7       |
| 25  | 2.4 | 5.1           | 3.6          | 0.45        | 22.0 | 6.4       |
| 25  | 2.5 | 5.1           | 3.6          | 0.45        | 22.1 | 6.8       |
| 25  | 2.7 | 5.1           | 3.6          | 0.45        | 22.3 | 7.8       |
| 32  | 1.5 | 5.1           | 3.5          | 0.46        | 27.3 | 2.4       |
| 32  | 1.8 | 5.3           | 3.7          | 0.46        | 27.9 | 3.4       |
| 32  | 2.0 | 5.3           | 3.7          | 0.46        | 28.3 | 4.1       |
| 32  | 2.3 | 5.4           | 3.8          | 0.46        | 28.6 | 5.1       |



## Performance Data

Table 28. Heating capacities 0.75 tons (gross) - EXVG009 (continued)

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 32  | 2.4 | 5.5           | 3.9          | 0.46        | 28.8 | 5.8       |
| 32  | 2.5 | 5.5           | 3.9          | 0.46        | 28.9 | 6.2       |
| 32  | 2.7 | 5.5           | 3.9          | 0.46        | 29.1 | 7.1       |
| 45  | 1.5 | 7.0           | 5.4          | 0.48        | 37.8 | 2.1       |
| 45  | 1.8 | 7.2           | 5.6          | 0.48        | 38.8 | 2.9       |
| 45  | 2.0 | 7.2           | 5.6          | 0.48        | 39.4 | 3.6       |
| 45  | 2.3 | 7.3           | 5.7          | 0.48        | 39.9 | 4.4       |
| 45  | 2.4 | 7.4           | 5.8          | 0.48        | 40.2 | 5.0       |
| 45  | 2.5 | 7.4           | 5.8          | 0.48        | 40.4 | 5.3       |
| 45  | 2.7 | 7.4           | 5.8          | 0.48        | 40.7 | 6.1       |
| 55  | 1.5 | 8.0           | 6.3          | 0.49        | 46.6 | 1.9       |
| 55  | 1.8 | 8.2           | 6.5          | 0.49        | 47.8 | 2.7       |
| 55  | 2.0 | 8.3           | 6.6          | 0.49        | 48.4 | 3.3       |
| 55  | 2.3 | 8.4           | 6.7          | 0.49        | 49.0 | 4.1       |
| 55  | 2.4 | 8.4           | 6.7          | 0.49        | 49.4 | 4.6       |
| 55  | 2.5 | 8.4           | 6.7          | 0.49        | 49.6 | 4.9       |
| 55  | 2.7 | 8.5           | 6.8          | 0.49        | 50.0 | 5.6       |
| 68  | 1.5 | 9.1           | 7.4          | 0.50        | 58.1 | 1.7       |
| 68  | 1.8 | 9.3           | 7.6          | 0.50        | 59.6 | 2.4       |
| 68  | 2.0 | 9.4           | 7.7          | 0.50        | 60.3 | 3.0       |
| 68  | 2.3 | 9.5           | 7.8          | 0.50        | 61.1 | 3.7       |
| 68  | 2.4 | 9.5           | 7.8          | 0.50        | 61.5 | 4.2       |
| 68  | 2.5 | 9.5           | 7.8          | 0.50        | 61.8 | 4.5       |
| 68  | 2.7 | 9.6           | 7.9          | 0.50        | 62.1 | 5.1       |
| 75  | 1.5 | 9.9           | 8.2          | 0.50        | 64.1 | 1.7       |
| 75  | 1.8 | 10.1          | 8.4          | 0.50        | 65.7 | 2.4       |
| 75  | 2.0 | 10.2          | 8.5          | 0.50        | 66.5 | 2.9       |
| 75  | 2.3 | 10.3          | 8.6          | 0.51        | 67.4 | 3.6       |
| 75  | 2.4 | 10.3          | 8.6          | 0.51        | 67.8 | 4.0       |
| 75  | 2.5 | 10.3          | 8.6          | 0.51        | 68.1 | 4.3       |
| 75  | 2.7 | 10.4          | 8.7          | 0.51        | 68.6 | 4.9       |
| 86  | 1.5 | 11.0          | 9.3          | 0.51        | 73.6 | 1.6       |
| 86  | 1.8 | 11.2          | 9.5          | 0.51        | 75.4 | 2.2       |
| 86  | 2.0 | 11.2          | 9.5          | 0.51        | 76.5 | 2.7       |
| 86  | 2.3 | 11.3          | 9.6          | 0.51        | 77.5 | 3.4       |
| 86  | 2.4 | 11.4          | 9.7          | 0.51        | 77.9 | 3.8       |
| 86  | 2.5 | 11.4          | 9.7          | 0.51        | 78.2 | 4.1       |
| 86  | 2.7 | 11.4          | 9.7          | 0.51        | 78.8 | 4.7       |
| 86  | 2.1 | 12.92         | 10.84        | 0.609       | 75.7 | 3.9       |
| 86  | 2.2 | 12.97         | 10.89        | 0.610       | 76.1 | 4.2       |
| 86  | 2.3 | 13.05         | 10.96        | 0.613       | 76.5 | 4.6       |

**Table 28. Heating capacities 0.75 tons (gross) - EXVG009 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 86  | 2.5 | 13.09         | 11.00        | 0.612       | 77.2 | 5.3       |

**Note:** correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 2.25; Minimum CFM 228; Rated CFM 285; Maximum CFM 342.

**Table 29. Fan correction factors 0.75 tons - EXVG009**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 228          | 0.962            | 0.871             | 1.012               | 0.977            | 1.097               |
| 242          | 0.973            | 0.903             | 1.009               | 0.983            | 1.070               |
| 257          | 0.983            | 0.937             | 1.005               | 0.990            | 1.043               |
| 271          | 0.992            | 0.969             | 1.003               | 0.995            | 1.021               |
| 285          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 314          | 1.014            | 1.064             | 0.995               | 1.009            | 0.963               |
| 328          | 1.021            | 1.095             | 0.993               | 1.012            | 0.947               |
| 342          | 1.026            | 1.125             | 0.991               | 1.016            | 0.933               |

**Table 30. Correction factors for variation in entering air temperature 0.75 ton EXVG009**

| Cooling<br>Entering<br>Air WB °F | Cooling<br>Capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multipliers |       |       |       |       | Heating<br>Entering<br>Air DB °F | Heating<br>Capacity | Heating<br>Input<br>Watts |
|----------------------------------|---------------------|---------------------------|--|-------|-------|-------|-------|----------------------------------|---------------------|---------------------------|
|                                  |                     |                           | 65.6                                       | 70.6  | 75.6  | 80.6  | 85.6  |                                  |                     |                           |
| 49.4                             | 0.921               | 1.017                     | 0.923                                      | 0.999 | 1.064 | *     | *     | 53.0                             | 1.049               | 0.811                     |
| 56.3                             | 0.921               | 1.019                     | 0.801                                      | 0.945 | 1.054 | *     | *     | 58.0                             | 1.034               | 0.874                     |
| 60.3                             | 0.933               | 1.016                     | 0.649                                      | 0.848 | 0.997 | 1.114 | *     | 63.0                             | 1.017               | 0.936                     |
| 63.2                             | 0.963               | 1.010                     | 0.499                                      | 0.743 | 0.927 | 1.069 | *     | 68.0                             | 1.000               | 1.000                     |
| 66.2                             | 1.000               | 1.000                     | —  | 0.603 | 0.827 | 1.000 | 1.139 | 73.0                             | 0.982               | 1.065                     |
| 72.1                             | 1.118               | 0.965                     | —  | —     | 0.547 | 0.790 | 0.985 | 78.0                             | 0.963               | 1.131                     |
| 77.1                             | 1.214               | 0.920                     | —  | —     | —     | —     | 0.785 | 83.0                             | 0.944               | 1.198                     |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 1 ton

**Table 31. Cooling capacities 1 tons (gross) - EXHF012**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 1.8 | 13.15       | 10.16     | 0.77 | 0.485    | 27.1 | 14.81        | 61.5 | 2.0       |
| 45  | 2.2 | 13.21       | 10.18     | 0.77 | 0.468    | 28.2 | 14.81        | 58.5 | 2.9       |
| 45  | 2.5 | 13.24       | 10.19     | 0.77 | 0.459    | 28.8 | 14.81        | 56.8 | 3.6       |
| 45  | 2.8 | 13.27       | 10.20     | 0.77 | 0.452    | 29.4 | 14.81        | 55.6 | 4.4       |
| 45  | 2.9 | 13.28       | 10.21     | 0.77 | 0.449    | 29.6 | 14.81        | 55.2 | 4.7       |
| 45  | 3.1 | 13.29       | 10.21     | 0.77 | 0.446    | 29.8 | 14.81        | 54.6 | 5.3       |
| 45  | 3.4 | 13.31       | 10.21     | 0.77 | 0.441    | 30.2 | 14.82        | 53.7 | 6.2       |
| 55  | 1.8 | 12.88       | 10.06     | 0.78 | 0.553    | 23.3 | 14.77        | 71.4 | 2.0       |
| 55  | 2.2 | 12.93       | 10.08     | 0.78 | 0.534    | 24.2 | 14.75        | 68.4 | 2.8       |
| 55  | 2.5 | 12.96       | 10.09     | 0.78 | 0.524    | 24.7 | 14.75        | 66.8 | 3.5       |
| 55  | 2.8 | 12.98       | 10.09     | 0.78 | 0.516    | 25.2 | 14.74        | 65.5 | 4.3       |
| 55  | 2.9 | 12.98       | 10.10     | 0.78 | 0.514    | 25.3 | 14.73        | 65.2 | 4.5       |
| 55  | 3.1 | 13.00       | 10.11     | 0.78 | 0.510    | 25.5 | 14.74        | 64.5 | 5.1       |



## Performance Data

Table 31. Cooling capacities 1 tons (gross) - EXHF012 (continued)

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 55  | 3.4 | 13.01       | 10.11     | 0.78 | 0.505    | 25.8 | 14.73        | 63.7  | 6.0       |
| 68  | 1.8 | 12.48       | 9.92      | 0.79 | 0.654    | 19.1 | 14.71        | 84.3  | 1.9       |
| 68  | 2.2 | 12.52       | 9.93      | 0.79 | 0.634    | 19.7 | 14.68        | 81.3  | 2.7       |
| 68  | 2.5 | 12.54       | 9.94      | 0.79 | 0.620    | 20.2 | 14.66        | 79.7  | 3.3       |
| 68  | 2.8 | 12.56       | 9.95      | 0.79 | 0.612    | 20.5 | 14.65        | 78.5  | 4.1       |
| 68  | 2.9 | 12.57       | 9.95      | 0.79 | 0.609    | 20.6 | 14.65        | 78.1  | 4.3       |
| 68  | 3.1 | 12.58       | 9.95      | 0.79 | 0.605    | 20.8 | 14.64        | 77.4  | 4.9       |
| 68  | 3.4 | 12.59       | 9.96      | 0.79 | 0.599    | 21.0 | 14.63        | 76.6  | 5.7       |
| 75  | 1.8 | 12.25       | 9.83      | 0.80 | 0.714    | 17.2 | 14.69        | 91.3  | 1.8       |
| 75  | 2.2 | 12.28       | 9.85      | 0.80 | 0.692    | 17.7 | 14.64        | 88.3  | 2.6       |
| 75  | 2.5 | 12.30       | 9.85      | 0.80 | 0.681    | 18.1 | 14.62        | 86.7  | 3.3       |
| 75  | 2.8 | 12.32       | 9.86      | 0.80 | 0.671    | 18.4 | 14.61        | 85.4  | 4.0       |
| 75  | 2.9 | 12.32       | 9.86      | 0.80 | 0.669    | 18.4 | 14.60        | 85.1  | 4.2       |
| 75  | 3.1 | 12.33       | 9.86      | 0.80 | 0.664    | 18.6 | 14.60        | 84.4  | 4.8       |
| 75  | 3.4 | 12.34       | 9.87      | 0.80 | 0.658    | 18.8 | 14.59        | 83.6  | 5.6       |
| 77  | 1.8 | 12.18       | 9.81      | 0.81 | 0.733    | 16.6 | 14.68        | 93.3  | 1.8       |
| 77  | 2.2 | 12.21       | 9.82      | 0.80 | 0.710    | 17.2 | 14.63        | 90.3  | 2.6       |
| 77  | 2.5 | 12.23       | 9.83      | 0.80 | 0.698    | 17.5 | 14.61        | 88.7  | 3.2       |
| 77  | 2.8 | 12.24       | 9.83      | 0.80 | 0.689    | 17.8 | 14.59        | 87.4  | 4.0       |
| 77  | 2.9 | 12.25       | 9.83      | 0.80 | 0.686    | 17.9 | 14.59        | 87.1  | 4.2       |
| 77  | 3.1 | 12.26       | 9.84      | 0.80 | 0.682    | 18.0 | 14.59        | 86.4  | 4.7       |
| 77  | 3.4 | 12.27       | 9.84      | 0.80 | 0.676    | 18.2 | 14.58        | 85.6  | 5.5       |
| 86  | 1.8 | 11.84       | 9.69      | 0.82 | 0.822    | 14.4 | 14.65        | 102.3 | 1.8       |
| 86  | 2.2 | 11.87       | 9.70      | 0.82 | 0.797    | 14.9 | 14.59        | 99.3  | 2.5       |
| 86  | 2.5 | 11.89       | 9.70      | 0.82 | 0.784    | 15.2 | 14.57        | 97.7  | 3.1       |
| 86  | 2.8 | 11.90       | 9.71      | 0.82 | 0.774    | 15.4 | 14.54        | 96.4  | 3.8       |
| 86  | 2.9 | 11.90       | 9.71      | 0.82 | 0.771    | 15.4 | 14.53        | 96.0  | 4.1       |
| 86  | 3.1 | 11.91       | 9.71      | 0.82 | 0.766    | 15.5 | 14.52        | 95.4  | 4.6       |
| 86  | 3.4 | 11.92       | 9.71      | 0.81 | 0.759    | 15.7 | 14.51        | 94.5  | 5.4       |
| 95  | 1.8 | 11.48       | 9.55      | 0.83 | 0.925    | 12.4 | 14.64        | 111.3 | 1.6       |
| 95  | 2.2 | 11.50       | 9.56      | 0.83 | 0.899    | 12.8 | 14.57        | 108.2 | 2.3       |
| 95  | 2.5 | 11.52       | 9.56      | 0.83 | 0.885    | 13.0 | 14.54        | 106.6 | 2.9       |
| 95  | 2.8 | 11.52       | 9.57      | 0.83 | 0.874    | 13.2 | 14.50        | 105.4 | 3.5       |
| 95  | 2.9 | 11.53       | 9.57      | 0.83 | 0.871    | 13.2 | 14.50        | 105.0 | 3.7       |
| 95  | 3.1 | 11.53       | 9.56      | 0.83 | 0.865    | 13.3 | 14.48        | 104.3 | 4.2       |
| 95  | 3.4 | 11.54       | 9.57      | 0.83 | 0.858    | 13.4 | 14.47        | 103.5 | 4.9       |
| 105 | 1.8 | 11.03       | 9.38      | 0.85 | 1.060    | 10.4 | 14.65        | 121.3 | 1.6       |
| 105 | 2.2 | 11.06       | 9.39      | 0.85 | 1.030    | 10.7 | 14.58        | 118.3 | 2.2       |
| 105 | 2.5 | 11.06       | 9.39      | 0.85 | 1.013    | 10.9 | 14.52        | 116.6 | 2.8       |
| 105 | 2.8 | 11.07       | 9.40      | 0.85 | 1.001    | 11.1 | 14.49        | 115.4 | 3.4       |
| 105 | 2.9 | 11.07       | 9.40      | 0.85 | 0.997    | 11.1 | 14.47        | 115.0 | 3.6       |
| 105 | 3.1 | 11.07       | 9.39      | 0.85 | 0.991    | 11.2 | 14.45        | 114.3 | 4.1       |
| 105 | 3.4 | 11.08       | 9.40      | 0.85 | 0.983    | 11.3 | 14.43        | 113.5 | 4.8       |

**Table 31. Cooling capacities 1 tons (gross) - EXHF012 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 110 | 1.8 | 10.70       | 9.26      | 0.87 | 1.138    | 9.4  | 14.58        | 126.2 | 1.5       |
| 110 | 2.2 | 10.75       | 9.28      | 0.86 | 1.107    | 9.7  | 14.53        | 123.2 | 2.2       |
| 110 | 2.5 | 10.79       | 9.29      | 0.86 | 1.092    | 9.9  | 14.52        | 121.6 | 2.7       |
| 110 | 2.8 | 10.81       | 9.30      | 0.86 | 1.079    | 10.0 | 14.49        | 120.4 | 3.3       |
| 110 | 2.9 | 10.82       | 9.31      | 0.86 | 1.075    | 10.1 | 14.49        | 120.0 | 3.6       |
| 110 | 3.1 | 10.82       | 9.30      | 0.86 | 1.069    | 10.1 | 14.47        | 119.3 | 4.0       |
| 110 | 3.4 | 10.84       | 9.31      | 0.86 | 1.060    | 10.2 | 14.46        | 118.5 | 4.7       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 2.8, Rated CFM 380, Minimum CFM 304, Maximum CFM 418.

**Table 32. Heating capacities 1 tons (gross) - EXHF012**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 2.8 | 8.32          | 5.82         | 0.732    | 3.3 | 20.8 | 6.1       |
| 25  | 2.9 | 8.34          | 5.84         | 0.732    | 3.3 | 21.0 | 6.5       |
| 25  | 3.1 | 8.39          | 5.89         | 0.733    | 3.4 | 21.2 | 7.3       |
| 25  | 3.4 | 8.44          | 5.94         | 0.733    | 3.4 | 21.5 | 8.5       |
| 32  | 1.8 | 8.83          | 6.31         | 0.739    | 3.5 | 25.0 | 2.7       |
| 32  | 2.2 | 9.00          | 6.47         | 0.740    | 3.6 | 26.1 | 3.9       |
| 32  | 2.5 | 9.14          | 6.60         | 0.744    | 3.6 | 26.7 | 4.8       |
| 32  | 2.8 | 9.23          | 6.68         | 0.746    | 3.6 | 27.2 | 5.9       |
| 32  | 2.9 | 9.26          | 6.71         | 0.747    | 3.6 | 27.4 | 6.3       |
| 32  | 3.1 | 9.30          | 6.75         | 0.747    | 3.6 | 27.6 | 7.0       |
| 32  | 3.4 | 9.36          | 6.81         | 0.748    | 3.7 | 28.0 | 8.3       |
| 45  | 1.8 | 10.65         | 8.03         | 0.767    | 4.1 | 36.1 | 2.0       |
| 45  | 2.2 | 10.90         | 8.27         | 0.771    | 4.1 | 37.5 | 2.9       |
| 45  | 2.5 | 11.03         | 8.39         | 0.773    | 4.2 | 38.3 | 3.6       |
| 45  | 2.8 | 11.14         | 8.50         | 0.774    | 4.2 | 38.9 | 4.4       |
| 45  | 2.9 | 11.15         | 8.51         | 0.773    | 4.2 | 39.1 | 4.7       |
| 45  | 3.1 | 11.23         | 8.58         | 0.776    | 4.2 | 39.5 | 5.3       |
| 45  | 3.4 | 11.30         | 8.65         | 0.775    | 4.3 | 39.9 | 6.2       |
| 55  | 1.8 | 12.02         | 9.33         | 0.788    | 4.5 | 44.6 | 2.0       |
| 55  | 2.2 | 12.32         | 9.61         | 0.793    | 4.6 | 46.3 | 2.8       |
| 55  | 2.5 | 12.44         | 9.74         | 0.792    | 4.6 | 47.2 | 3.5       |
| 55  | 2.8 | 12.56         | 9.85         | 0.794    | 4.6 | 48.0 | 4.3       |
| 55  | 2.9 | 12.67         | 9.95         | 0.798    | 4.7 | 48.1 | 4.5       |
| 55  | 3.1 | 12.74         | 10.01        | 0.799    | 4.7 | 48.5 | 5.1       |
| 55  | 3.4 | 12.75         | 10.03        | 0.797    | 4.7 | 49.1 | 6.0       |
| 68  | 1.8 | 13.83         | 11.05        | 0.815    | 5.0 | 55.7 | 1.9       |
| 68  | 2.2 | 14.13         | 11.33        | 0.819    | 5.1 | 57.7 | 2.7       |
| 68  | 2.5 | 14.34         | 11.53        | 0.823    | 5.1 | 58.8 | 3.3       |
| 68  | 2.8 | 14.52         | 11.70        | 0.827    | 5.1 | 59.6 | 4.1       |
| 68  | 2.9 | 14.58         | 11.75        | 0.829    | 5.2 | 59.9 | 4.3       |
| 68  | 3.1 | 14.64         | 11.82        | 0.827    | 5.2 | 60.4 | 4.9       |



## Performance Data

**Table 32. Heating capacities 1 tons (gross) - EXHF012 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 68  | 3.4 | 14.75         | 11.92        | 0.829    | 5.2 | 61.0 | 5.7       |
| 75  | 1.8 | 14.80         | 11.97        | 0.830    | 5.2 | 61.7 | 1.8       |
| 75  | 2.2 | 15.17         | 12.32        | 0.836    | 5.3 | 63.8 | 2.6       |
| 75  | 2.5 | 15.38         | 12.52        | 0.839    | 5.4 | 65.0 | 3.3       |
| 75  | 2.8 | 15.54         | 12.67        | 0.842    | 5.4 | 66.0 | 4.0       |
| 75  | 2.9 | 15.63         | 12.75        | 0.845    | 5.4 | 66.2 | 4.2       |
| 75  | 3.1 | 15.73         | 12.84        | 0.846    | 5.4 | 66.7 | 4.8       |
| 75  | 3.4 | 15.85         | 12.95        | 0.849    | 5.5 | 67.4 | 5.6       |
| 77  | 1.8 | 15.08         | 12.23        | 0.834    | 5.3 | 63.4 | 1.8       |
| 77  | 2.2 | 15.50         | 12.62        | 0.843    | 5.4 | 65.5 | 2.6       |
| 77  | 2.5 | 15.66         | 12.78        | 0.844    | 5.4 | 66.8 | 3.2       |
| 77  | 2.8 | 15.87         | 12.97        | 0.849    | 5.5 | 67.7 | 4.0       |
| 77  | 2.9 | 15.91         | 13.01        | 0.849    | 5.5 | 68.0 | 4.2       |
| 77  | 3.1 | 16.03         | 13.12        | 0.852    | 5.5 | 68.5 | 4.7       |
| 77  | 3.4 | 16.08         | 13.18        | 0.851    | 5.5 | 69.2 | 5.5       |
| 86  | 1.8 | 16.34         | 13.42        | 0.857    | 5.6 | 71.1 | 1.8       |
| 86  | 2.2 | 16.73         | 13.78        | 0.864    | 5.7 | 73.5 | 2.5       |
| 86  | 2.5 | 16.93         | 13.97        | 0.867    | 5.7 | 74.8 | 3.1       |
| 86  | 2.8 | 17.15         | 14.17        | 0.872    | 5.8 | 75.9 | 3.8       |
| 86  | 2.9 | 17.24         | 14.25        | 0.875    | 5.8 | 76.2 | 4.1       |
| 86  | 3.1 | 17.27         | 14.29        | 0.874    | 5.8 | 76.8 | 4.6       |
| 86  | 3.4 | 17.38         | 14.39        | 0.876    | 5.8 | 77.5 | 5.4       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 2.8, Rated CFM 380, Minimum CFM 304, Maximum CFM 418.

**Table 33. Fan correction factors 1 tons - EXHF012**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 304          | 0.959            | 0.874             | 1.005              | 0.987            | 1.094              |
| 342          | 0.981            | 0.937             | 1.002              | 0.996            | 1.041              |
| 380          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 418          | 1.017            | 1.062             | 0.999              | 1.002            | 0.964              |

**Table 34. Correction factors for variation in entering air temperature 1 tons, EXHF012**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.949               | 1.010                     | 0.983                                     | 1.046 | 1.110 | *     | *     | 53.0                            | 1.012               | 0.851                  |
| 56.3                            | 0.948               | 1.010                     | 0.809                                     | 1.033 | 1.109 | *     | *     | 58.0                            | 1.006               | 0.896                  |
| 60.3                            | 0.948               | 1.010                     | 0.598                                     | 0.838 | 1.071 | *     | *     | 63.0                            | 1.005               | 0.947                  |
| 63.2                            | 0.960               | 1.007                     | 0.442                                     | 0.684 | 0.923 | 1.150 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.520 | 0.761 | 1.000 | 1.221 | 73.0                            | 0.995               | 1.053                  |
| 72.1                            | 1.080               | 0.979                     | —   | —     | 0.435 | 0.675 | 0.912 | 78.0                            | 0.991               | 1.111                  |
| 77.1                            | 1.144               | 0.966                     | —   | —     | —     | 0.393 | 0.632 | 83.0                            | 0.983               | 1.166                  |

**Note:** \* = Sensible equals total capacity



**Table 35. Cooling capacities 1 tons (gross) - EXVG012**

| EWT | GPM | Gross Mbtuh | Gross Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------------|------|-------------|--------------|-------|-----------|
| 45  | 2.0 | 14.4        | 11.2            | 0.78 | 0.41        | 15.8         | 60.8  | 3.6       |
| 45  | 2.4 | 14.5        | 11.3            | 0.78 | 0.39        | 15.8         | 58.2  | 5.0       |
| 45  | 2.7 | 14.5        | 11.3            | 0.78 | 0.38        | 15.8         | 56.7  | 6.2       |
| 45  | 3.0 | 14.5        | 11.3            | 0.78 | 0.37        | 15.8         | 55.5  | 7.5       |
| 45  | 3.2 | 14.5        | 11.3            | 0.78 | 0.36        | 15.7         | 54.8  | 8.5       |
| 45  | 3.3 | 14.6        | 11.4            | 0.78 | 0.36        | 15.8         | 54.6  | 8.9       |
| 45  | 3.6 | 14.6        | 11.4            | 0.78 | 0.36        | 15.8         | 53.8  | 10.4      |
| 55  | 2.0 | 14.0        | 11.0            | 0.79 | 0.49        | 15.7         | 70.7  | 3.3       |
| 55  | 2.4 | 14.0        | 11.0            | 0.79 | 0.47        | 15.6         | 68.0  | 4.6       |
| 55  | 2.7 | 14.1        | 11.1            | 0.79 | 0.46        | 15.7         | 66.6  | 5.7       |
| 55  | 3.0 | 14.1        | 11.1            | 0.79 | 0.45        | 15.6         | 65.4  | 6.9       |
| 55  | 3.2 | 14.1        | 11.1            | 0.79 | 0.45        | 15.6         | 64.8  | 7.8       |
| 55  | 3.3 | 14.1        | 11.1            | 0.79 | 0.44        | 15.6         | 64.5  | 8.2       |
| 55  | 3.6 | 14.2        | 11.2            | 0.79 | 0.44        | 15.7         | 63.7  | 9.6       |
| 68  | 2.0 | 13.2        | 10.6            | 0.80 | 0.59        | 15.2         | 83.2  | 3.0       |
| 68  | 2.4 | 13.3        | 10.7            | 0.80 | 0.57        | 15.2         | 80.7  | 4.2       |
| 68  | 2.7 | 13.3        | 10.7            | 0.80 | 0.56        | 15.2         | 79.3  | 5.3       |
| 68  | 3.0 | 13.3        | 10.7            | 0.80 | 0.55        | 15.2         | 78.1  | 6.4       |
| 68  | 3.2 | 13.3        | 10.7            | 0.80 | 0.55        | 15.2         | 77.5  | 7.2       |
| 68  | 3.3 | 13.4        | 10.8            | 0.81 | 0.55        | 15.3         | 77.3  | 7.6       |
| 68  | 3.6 | 13.4        | 10.8            | 0.81 | 0.54        | 15.2         | 76.4  | 8.8       |
| 75  | 2.0 | 12.7        | 10.4            | 0.82 | 0.64        | 14.9         | 89.9  | 2.9       |
| 75  | 2.4 | 12.7        | 10.4            | 0.82 | 0.62        | 14.8         | 87.3  | 4.1       |
| 75  | 2.7 | 12.8        | 10.5            | 0.82 | 0.61        | 14.9         | 86.0  | 5.1       |
| 75  | 3.0 | 12.8        | 10.5            | 0.82 | 0.60        | 14.9         | 84.9  | 6.2       |
| 75  | 3.2 | 12.8        | 10.5            | 0.82 | 0.60        | 14.8         | 84.3  | 7.0       |
| 75  | 3.3 | 12.8        | 10.5            | 0.82 | 0.60        | 14.8         | 84.0  | 7.4       |
| 75  | 3.6 | 12.9        | 10.6            | 0.82 | 0.59        | 14.9         | 83.3  | 8.5       |
| 86  | 2.0 | 11.9        | 10.0            | 0.84 | 0.74        | 14.4         | 100.4 | 2.8       |
| 86  | 2.4 | 12.0        | 10.1            | 0.84 | 0.72        | 14.4         | 98.0  | 3.9       |
| 86  | 2.7 | 12.0        | 10.1            | 0.84 | 0.71        | 14.4         | 96.7  | 4.9       |
| 86  | 3.0 | 12.0        | 10.1            | 0.84 | 0.70        | 14.4         | 95.6  | 5.9       |
| 86  | 3.2 | 12.0        | 10.1            | 0.84 | 0.69        | 14.4         | 95.0  | 6.7       |
| 86  | 3.3 | 12.1        | 10.2            | 0.84 | 0.69        | 14.5         | 94.8  | 7.0       |
| 86  | 3.6 | 12.1        | 10.2            | 0.84 | 0.69        | 14.4         | 94.0  | 8.2       |
| 95  | 2.0 | 11.3        | 9.8             | 0.87 | 0.82        | 14.1         | 109.1 | 2.7       |
| 95  | 2.4 | 11.4        | 9.9             | 0.87 | 0.80        | 14.1         | 106.8 | 3.8       |
| 95  | 2.7 | 11.4        | 9.9             | 0.87 | 0.79        | 14.1         | 105.4 | 4.7       |
| 95  | 3.0 | 11.4        | 9.9             | 0.87 | 0.79        | 14.1         | 104.4 | 5.8       |
| 95  | 3.2 | 11.4        | 9.9             | 0.87 | 0.78        | 14.1         | 103.8 | 6.5       |
| 95  | 3.3 | 11.5        | 9.9             | 0.86 | 0.78        | 14.2         | 103.6 | 6.8       |



## Performance Data

**Table 35. Cooling capacities 1 tons (gross) - EXVG012 (continued)**

| EWT | GPM | Gross Mbtuh | Gross Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------------|------|-------------|--------------|-------|-----------|
| 95  | 3.6 | 11.5        | 9.9             | 0.86 | 0.77        | 14.1         | 102.8 | 7.9       |
| 105 | 2.0 | 10.6        | 9.5             | 0.90 | 0.93        | 13.8         | 118.8 | 2.6       |
| 105 | 2.4 | 10.7        | 9.5             | 0.89 | 0.91        | 13.8         | 116.5 | 3.7       |
| 105 | 2.7 | 10.7        | 9.5             | 0.89 | 0.90        | 13.8         | 115.2 | 4.6       |
| 105 | 3.0 | 10.8        | 9.6             | 0.89 | 0.90        | 13.9         | 114.3 | 5.6       |
| 105 | 3.2 | 10.8        | 9.6             | 0.89 | 0.89        | 13.8         | 113.6 | 6.3       |
| 105 | 3.3 | 10.8        | 9.6             | 0.89 | 0.89        | 13.8         | 113.4 | 6.7       |
| 105 | 3.6 | 10.8        | 9.6             | 0.89 | 0.88        | 13.8         | 112.7 | 7.7       |
| 115 | 2.0 | 9.9         | 9.2             | 0.93 | 1.05        | 13.5         | 128.5 | 2.6       |
| 115 | 2.4 | 9.9         | 9.2             | 0.93 | 1.03        | 13.4         | 126.2 | 3.6       |
| 115 | 2.7 | 10.0        | 9.3             | 0.93 | 1.02        | 13.5         | 125.0 | 4.5       |
| 115 | 3.0 | 10.0        | 9.3             | 0.93 | 1.01        | 13.5         | 124.0 | 5.5       |
| 115 | 3.2 | 10.0        | 9.3             | 0.93 | 1.01        | 13.4         | 123.4 | 6.2       |
| 115 | 3.3 | 10.0        | 9.3             | 0.93 | 1.01        | 13.4         | 123.1 | 6.5       |
| 115 | 3.6 | 10.1        | 9.4             | 0.93 | 1.00        | 13.5         | 122.5 | 7.6       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 3; Minimum CFM 304; Rated CFM 380; Maximum CFM 456.

**Table 36. Heating capacities 1 tons (gross) - EXVG012**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 2.0 | 7.6           | 5.5          | 0.63        | 19.5 | 4.4       |
| 25  | 2.4 | 7.7           | 5.5          | 0.63        | 20.4 | 6.3       |
| 25  | 2.7 | 7.8           | 5.6          | 0.64        | 20.9 | 7.8       |
| 25  | 3.0 | 7.9           | 5.7          | 0.64        | 21.2 | 9.6       |
| 25  | 3.2 | 7.9           | 5.7          | 0.64        | 21.4 | 10.7      |
| 25  | 3.3 | 8.0           | 5.8          | 0.64        | 21.5 | 11.3      |
| 25  | 3.6 | 8.0           | 5.8          | 0.64        | 21.8 | 13.2      |
| 32  | 2.0 | 8.5           | 6.3          | 0.65        | 25.7 | 4.1       |
| 32  | 2.4 | 8.7           | 6.5          | 0.65        | 26.6 | 5.7       |
| 32  | 2.7 | 8.8           | 6.6          | 0.65        | 27.1 | 7.1       |
| 32  | 3.0 | 8.9           | 6.7          | 0.65        | 27.5 | 8.6       |
| 32  | 3.2 | 8.9           | 6.7          | 0.66        | 27.8 | 9.7       |
| 32  | 3.3 | 8.9           | 6.7          | 0.66        | 27.9 | 10.3      |
| 32  | 3.6 | 9.0           | 6.8          | 0.66        | 28.2 | 11.9      |
| 45  | 2.0 | 10.7          | 8.3          | 0.69        | 36.7 | 3.6       |
| 45  | 2.4 | 10.9          | 8.5          | 0.69        | 37.9 | 5.0       |
| 45  | 2.7 | 11.0          | 8.6          | 0.70        | 38.6 | 6.2       |
| 45  | 3.0 | 11.1          | 8.7          | 0.70        | 39.2 | 7.5       |
| 45  | 3.2 | 11.2          | 8.8          | 0.70        | 39.5 | 8.5       |
| 45  | 3.3 | 11.2          | 8.8          | 0.70        | 39.7 | 8.9       |
| 45  | 3.6 | 11.3          | 8.9          | 0.70        | 40.1 | 10.4      |

**Table 36. Heating capacities 1 tons (gross) - EXVG012 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 55  | 2.0 | 12.4          | 10.0         | 0.72        | 45.0 | 3.3       |
| 55  | 2.4 | 12.6          | 10.1         | 0.72        | 46.6 | 4.6       |
| 55  | 2.7 | 12.8          | 10.3         | 0.72        | 47.4 | 5.7       |
| 55  | 3.0 | 12.9          | 10.4         | 0.72        | 48.1 | 6.9       |
| 55  | 3.2 | 13.0          | 10.5         | 0.72        | 48.4 | 7.8       |
| 55  | 3.3 | 13.0          | 10.5         | 0.72        | 48.6 | 8.2       |
| 55  | 3.6 | 13.1          | 10.6         | 0.73        | 49.1 | 9.6       |
| 68  | 2.0 | 14.5          | 12.0         | 0.74        | 56.0 | 3.0       |
| 68  | 2.4 | 14.8          | 12.3         | 0.75        | 57.8 | 4.2       |
| 68  | 2.7 | 15.0          | 12.4         | 0.75        | 58.8 | 5.3       |
| 68  | 3.0 | 15.2          | 12.6         | 0.75        | 59.6 | 6.4       |
| 68  | 3.2 | 15.3          | 12.7         | 0.75        | 60.1 | 7.2       |
| 68  | 3.3 | 15.3          | 12.7         | 0.75        | 60.3 | 7.6       |
| 68  | 3.6 | 15.4          | 12.8         | 0.75        | 60.9 | 8.8       |
| 75  | 2.0 | 15.6          | 13.0         | 0.76        | 62.0 | 2.9       |
| 75  | 2.4 | 16.0          | 13.4         | 0.76        | 63.8 | 4.1       |
| 75  | 2.7 | 16.2          | 13.6         | 0.76        | 64.9 | 5.1       |
| 75  | 3.0 | 16.4          | 13.8         | 0.76        | 65.8 | 6.2       |
| 75  | 3.2 | 16.5          | 13.9         | 0.76        | 66.3 | 7.0       |
| 75  | 3.3 | 16.5          | 13.9         | 0.76        | 66.6 | 7.4       |
| 75  | 3.6 | 16.6          | 14.0         | 0.77        | 67.2 | 8.5       |
| 86  | 2.0 | 17.2          | 14.6         | 0.77        | 71.4 | 2.8       |
| 86  | 2.4 | 17.6          | 15.0         | 0.77        | 73.5 | 3.9       |
| 86  | 2.7 | 17.9          | 15.3         | 0.78        | 74.7 | 4.9       |
| 86  | 3.0 | 18.1          | 15.4         | 0.78        | 75.7 | 5.9       |
| 86  | 3.2 | 18.2          | 15.5         | 0.78        | 76.3 | 6.7       |
| 86  | 3.3 | 18.3          | 15.6         | 0.78        | 76.5 | 7.0       |
| 86  | 3.6 | 18.4          | 15.7         | 0.78        | 77.3 | 8.2       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 3; Minimum CFM 304; Rated CFM 380; Maximum CFM 456.

**Table 37. Fan correction factors 1 tons - EXVG012**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 304          | 0.963            | 0.874             | 1.010               | 0.973            | 1.100               |
| 323          | 0.973            | 0.906             | 1.007               | 0.981            | 1.071               |
| 342          | 0.983            | 0.937             | 1.005               | 0.988            | 1.045               |
| 361          | 0.992            | 0.969             | 1.002               | 0.994            | 1.021               |
| 380          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 418          | 1.014            | 1.062             | 0.996               | 1.010            | 0.963               |
| 437          | 1.020            | 1.093             | 0.994               | 1.014            | 0.946               |
| 456          | 1.026            | 1.123             | 0.993               | 1.018            | 0.931               |



## Performance Data

**Table 38. Correction factors for variation in entering air temperature 1 ton, EXVG012**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.900               | 1.016                     | 0.940                                     | 1.015 | 1.079 | *     | *     | 53.0                            | 1.050               | 0.831                  |
| 56.3                            | 0.908               | 1.019                     | 0.814                                     | 0.957 | 1.064 | *     | *     | 58.0                            | 1.034               | 0.887                  |
| 60.3                            | 0.923               | 1.016                     | 0.660                                     | 0.856 | 1.003 | 1.118 | *     | 63.0                            | 1.017               | 0.943                  |
| 63.2                            | 0.959               | 1.010                     | 0.510                                     | 0.750 | 0.931 | 1.071 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.610 | 0.830 | 1.000 | 1.136 | 73.0                            | 0.982               | 1.058                  |
| 72.1                            | 1.112               | 0.970                     | —   | —     | 0.551 | 0.790 | 0.981 | 78.0                            | 0.964               | 1.118                  |
| 77.1                            | 1.198               | 0.935                     | —   | —     | —     | —     | 0.782 | 83.0                            | 0.945               | 1.178                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 1.25 tons

**Table 39. Cooling capacities 1.25 tons (gross) - EXHF015**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 2.2 | 16.07       | 12.30     | 0.77 | 0.550    | 29.2 | 17.95        | 61.3 | 2.8       |
| 45  | 2.8 | 16.15       | 12.33     | 0.76 | 0.514    | 31.4 | 17.90        | 57.8 | 4.2       |
| 45  | 3.1 | 16.17       | 12.34     | 0.76 | 0.500    | 32.3 | 17.88        | 56.5 | 5.1       |
| 45  | 3.5 | 16.20       | 12.35     | 0.76 | 0.486    | 33.3 | 17.86        | 55.2 | 6.3       |
| 45  | 3.6 | 16.21       | 12.35     | 0.76 | 0.483    | 33.6 | 17.86        | 54.9 | 6.6       |
| 45  | 3.8 | 16.21       | 12.35     | 0.76 | 0.476    | 34.1 | 17.83        | 54.4 | 7.2       |
| 45  | 4.2 | 16.23       | 12.36     | 0.76 | 0.466    | 34.8 | 17.82        | 53.5 | 8.6       |
| 55  | 2.2 | 15.78       | 12.19     | 0.77 | 0.663    | 23.8 | 18.04        | 71.4 | 2.7       |
| 55  | 2.8 | 15.85       | 12.22     | 0.77 | 0.628    | 25.2 | 17.99        | 67.9 | 4.1       |
| 55  | 3.1 | 15.87       | 12.23     | 0.77 | 0.614    | 25.8 | 17.97        | 66.6 | 4.9       |
| 55  | 3.5 | 15.91       | 12.25     | 0.77 | 0.602    | 26.4 | 17.96        | 65.3 | 6.0       |
| 55  | 3.6 | 15.92       | 12.25     | 0.77 | 0.599    | 26.6 | 17.96        | 65.0 | 6.3       |
| 55  | 3.8 | 15.92       | 12.25     | 0.77 | 0.593    | 26.8 | 17.94        | 64.4 | 6.9       |
| 55  | 4.2 | 15.95       | 12.26     | 0.77 | 0.584    | 27.3 | 17.94        | 63.5 | 8.3       |
| 68  | 2.2 | 15.30       | 12.02     | 0.79 | 0.810    | 18.9 | 18.06        | 84.4 | 2.5       |
| 68  | 2.8 | 15.38       | 12.05     | 0.78 | 0.777    | 19.8 | 18.03        | 80.9 | 3.9       |
| 68  | 3.1 | 15.40       | 12.05     | 0.78 | 0.762    | 20.2 | 18.00        | 79.6 | 4.6       |
| 68  | 3.5 | 15.43       | 12.07     | 0.78 | 0.748    | 20.6 | 17.98        | 78.3 | 5.7       |
| 68  | 3.6 | 15.44       | 12.07     | 0.78 | 0.746    | 20.7 | 17.99        | 78.0 | 6.0       |
| 68  | 3.8 | 15.44       | 12.08     | 0.78 | 0.740    | 20.9 | 17.97        | 77.5 | 6.6       |
| 68  | 4.2 | 15.47       | 12.09     | 0.78 | 0.732    | 21.1 | 17.97        | 76.6 | 7.9       |
| 75  | 2.2 | 15.02       | 11.93     | 0.79 | 0.891    | 16.9 | 18.06        | 91.4 | 2.5       |
| 75  | 2.8 | 15.08       | 11.94     | 0.79 | 0.857    | 17.6 | 18.00        | 87.9 | 3.8       |
| 75  | 3.1 | 15.11       | 11.95     | 0.79 | 0.844    | 17.9 | 17.99        | 86.6 | 4.5       |
| 75  | 3.5 | 15.13       | 11.97     | 0.79 | 0.832    | 18.2 | 17.97        | 85.3 | 5.6       |
| 75  | 3.6 | 15.14       | 11.97     | 0.79 | 0.829    | 18.3 | 17.97        | 85.0 | 5.9       |
| 75  | 3.8 | 15.15       | 11.96     | 0.79 | 0.824    | 18.4 | 17.96        | 84.5 | 6.5       |
| 75  | 4.2 | 15.16       | 11.97     | 0.79 | 0.815    | 18.6 | 17.94        | 83.5 | 7.7       |
| 77  | 2.2 | 14.93       | 11.88     | 0.80 | 0.915    | 16.3 | 18.05        | 93.4 | 2.5       |

**Table 39. Cooling capacities 1.25 tons (gross) - EXHF015 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 77  | 2.8 | 15.00       | 11.92     | 0.79 | 0.880    | 17.0 | 18.00        | 89.9  | 3.8       |
| 77  | 3.1 | 15.02       | 11.92     | 0.79 | 0.868    | 17.3 | 17.98        | 88.6  | 4.5       |
| 77  | 3.5 | 15.04       | 11.92     | 0.79 | 0.855    | 17.6 | 17.96        | 87.3  | 5.6       |
| 77  | 3.6 | 15.05       | 11.92     | 0.79 | 0.852    | 17.7 | 17.96        | 87.0  | 5.8       |
| 77  | 3.8 | 15.06       | 11.93     | 0.79 | 0.847    | 17.8 | 17.95        | 86.4  | 6.4       |
| 77  | 4.2 | 15.07       | 11.94     | 0.79 | 0.838    | 18.0 | 17.93        | 85.5  | 7.7       |
| 86  | 2.2 | 14.53       | 11.73     | 0.81 | 1.030    | 14.1 | 18.05        | 102.4 | 2.4       |
| 86  | 2.8 | 14.58       | 11.75     | 0.81 | 0.991    | 14.7 | 17.96        | 98.8  | 3.7       |
| 86  | 3.1 | 14.60       | 11.76     | 0.81 | 0.978    | 14.9 | 17.94        | 97.6  | 4.4       |
| 86  | 3.5 | 14.62       | 11.77     | 0.81 | 0.965    | 15.2 | 17.91        | 96.2  | 5.4       |
| 86  | 3.6 | 14.63       | 11.77     | 0.80 | 0.962    | 15.2 | 17.91        | 96.0  | 5.7       |
| 86  | 3.8 | 14.63       | 11.77     | 0.80 | 0.956    | 15.3 | 17.89        | 95.4  | 6.2       |
| 86  | 4.2 | 14.65       | 11.78     | 0.80 | 0.947    | 15.5 | 17.88        | 94.5  | 7.4       |
| 95  | 2.2 | 14.11       | 11.58     | 0.82 | 1.152    | 12.2 | 18.04        | 111.4 | 2.1       |
| 95  | 2.8 | 14.15       | 11.58     | 0.82 | 1.114    | 12.7 | 17.95        | 107.8 | 3.2       |
| 95  | 3.1 | 14.16       | 11.59     | 0.82 | 1.101    | 12.9 | 17.92        | 106.6 | 3.9       |
| 95  | 3.5 | 14.17       | 11.59     | 0.82 | 1.087    | 13.0 | 17.88        | 105.2 | 4.8       |
| 95  | 3.6 | 14.18       | 11.59     | 0.82 | 1.084    | 13.1 | 17.88        | 104.9 | 5.0       |
| 95  | 3.8 | 14.18       | 11.60     | 0.82 | 1.078    | 13.2 | 17.86        | 104.4 | 5.5       |
| 95  | 4.2 | 14.19       | 11.60     | 0.82 | 1.069    | 13.3 | 17.84        | 103.5 | 6.6       |
| 105 | 2.2 | 13.63       | 11.39     | 0.84 | 1.310    | 10.4 | 18.10        | 121.5 | 2.1       |
| 105 | 2.8 | 13.65       | 11.39     | 0.83 | 1.268    | 10.8 | 17.98        | 117.8 | 3.1       |
| 105 | 3.1 | 13.65       | 11.39     | 0.83 | 1.253    | 10.9 | 17.93        | 116.6 | 3.8       |
| 105 | 3.5 | 13.66       | 11.40     | 0.83 | 1.238    | 11.0 | 17.89        | 115.2 | 4.7       |
| 105 | 3.6 | 13.66       | 11.40     | 0.83 | 1.235    | 11.1 | 17.88        | 114.9 | 4.9       |
| 105 | 3.8 | 13.67       | 11.40     | 0.83 | 1.229    | 11.1 | 17.86        | 114.4 | 5.4       |
| 105 | 4.2 | 13.67       | 11.40     | 0.83 | 1.218    | 11.2 | 17.83        | 113.5 | 6.4       |
| 110 | 2.2 | 13.38       | 11.29     | 0.84 | 1.406    | 9.5  | 18.18        | 126.5 | 2.0       |
| 110 | 2.8 | 13.39       | 11.30     | 0.84 | 1.361    | 9.8  | 18.04        | 122.9 | 3.1       |
| 110 | 3.1 | 13.39       | 11.30     | 0.84 | 1.345    | 10.0 | 17.98        | 121.6 | 3.7       |
| 110 | 3.5 | 13.40       | 11.30     | 0.84 | 1.329    | 10.1 | 17.94        | 120.3 | 4.6       |
| 110 | 3.6 | 13.40       | 11.30     | 0.84 | 1.326    | 10.1 | 17.93        | 120.0 | 4.8       |
| 110 | 3.8 | 13.40       | 11.30     | 0.84 | 1.319    | 10.2 | 17.90        | 119.4 | 5.3       |
| 110 | 4.2 | 13.40       | 11.30     | 0.84 | 1.308    | 10.2 | 17.86        | 118.5 | 6.3       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 3.5, Rated CFM 475, Minimum CFM 380, Maximum CFM 523.

**Table 40. Heating capacities 1.25 tons (gross) - EXHF015**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 3.5 | 10.56         | 7.44         | 0.913    | 3.4 | 20.7 | 8.7       |
| 25  | 3.6 | 10.58         | 7.46         | 0.914    | 3.4 | 20.9 | 9.2       |
| 25  | 3.8 | 10.62         | 7.50         | 0.915    | 3.4 | 21.1 | 10.1      |
| 25  | 4.2 | 10.70         | 7.57         | 0.916    | 3.4 | 21.4 | 12.0      |



## Performance Data

Table 40. Heating capacities 1.25 tons (gross) - EXHF015 (continued)

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 32  | 2.2 | 11.14         | 7.98         | 0.926    | 3.5 | 24.7 | 3.8       |
| 32  | 2.8 | 11.44         | 8.26         | 0.933    | 3.6 | 26.1 | 5.7       |
| 32  | 3.1 | 11.54         | 8.35         | 0.935    | 3.6 | 26.6 | 6.9       |
| 32  | 3.5 | 11.65         | 8.45         | 0.937    | 3.6 | 27.2 | 8.5       |
| 32  | 3.6 | 11.67         | 8.47         | 0.937    | 3.6 | 27.3 | 8.9       |
| 32  | 3.8 | 11.73         | 8.52         | 0.940    | 3.7 | 27.5 | 9.8       |
| 32  | 4.2 | 11.82         | 8.61         | 0.940    | 3.7 | 27.9 | 11.6      |
| 45  | 2.2 | 13.38         | 10.05        | 0.975    | 4.0 | 35.9 | 2.8       |
| 45  | 2.8 | 13.73         | 10.38        | 0.982    | 4.1 | 37.6 | 4.2       |
| 45  | 3.1 | 13.85         | 10.50        | 0.983    | 4.1 | 38.2 | 5.1       |
| 45  | 3.5 | 14.00         | 10.63        | 0.987    | 4.2 | 38.9 | 6.3       |
| 45  | 3.6 | 14.01         | 10.64        | 0.986    | 4.2 | 39.1 | 6.6       |
| 45  | 3.8 | 14.07         | 10.70        | 0.987    | 4.2 | 39.4 | 7.2       |
| 45  | 4.2 | 14.17         | 10.80        | 0.988    | 4.2 | 39.9 | 8.6       |
| 55  | 2.2 | 15.07         | 11.62        | 1.010    | 4.4 | 44.4 | 2.7       |
| 55  | 2.8 | 15.51         | 12.03        | 1.019    | 4.5 | 46.4 | 4.1       |
| 55  | 3.1 | 15.67         | 12.18        | 1.023    | 4.5 | 47.1 | 4.9       |
| 55  | 3.5 | 15.84         | 12.34        | 1.026    | 4.5 | 47.9 | 6.0       |
| 55  | 3.6 | 15.84         | 12.35        | 1.024    | 4.5 | 48.1 | 6.3       |
| 55  | 3.8 | 15.92         | 12.42        | 1.026    | 4.5 | 48.5 | 6.9       |
| 55  | 4.2 | 16.05         | 12.54        | 1.029    | 4.6 | 49.0 | 8.3       |
| 68  | 2.2 | 17.35         | 13.75        | 1.056    | 4.8 | 55.5 | 2.5       |
| 68  | 2.8 | 17.86         | 14.23        | 1.064    | 4.9 | 57.8 | 3.9       |
| 68  | 3.1 | 18.01         | 14.37        | 1.066    | 5.0 | 58.7 | 4.6       |
| 68  | 3.5 | 18.29         | 14.63        | 1.073    | 5.0 | 59.6 | 5.7       |
| 68  | 3.6 | 18.33         | 14.66        | 1.074    | 5.0 | 59.9 | 6.0       |
| 68  | 3.8 | 18.42         | 14.75        | 1.076    | 5.0 | 60.2 | 6.6       |
| 68  | 4.2 | 18.57         | 14.89        | 1.078    | 5.0 | 60.9 | 7.9       |
| 75  | 2.2 | 18.60         | 14.92        | 1.078    | 5.1 | 61.4 | 2.5       |
| 75  | 2.8 | 19.11         | 15.41        | 1.083    | 5.2 | 64.0 | 3.8       |
| 75  | 3.1 | 19.37         | 15.65        | 1.089    | 5.2 | 64.9 | 4.5       |
| 75  | 3.5 | 19.60         | 15.87        | 1.093    | 5.3 | 65.9 | 5.6       |
| 75  | 3.6 | 19.65         | 15.92        | 1.093    | 5.3 | 66.2 | 5.9       |
| 75  | 3.8 | 19.74         | 16.00        | 1.095    | 5.3 | 66.6 | 6.5       |
| 75  | 4.2 | 19.93         | 16.18        | 1.099    | 5.3 | 67.3 | 7.7       |
| 77  | 2.2 | 18.94         | 15.25        | 1.081    | 5.1 | 63.1 | 2.5       |
| 77  | 2.8 | 19.52         | 15.80        | 1.091    | 5.2 | 65.7 | 3.8       |
| 77  | 3.1 | 19.77         | 16.03        | 1.096    | 5.3 | 66.7 | 4.5       |
| 77  | 3.5 | 19.96         | 16.21        | 1.098    | 5.3 | 67.7 | 5.6       |
| 77  | 3.6 | 20.02         | 16.27        | 1.099    | 5.3 | 68.0 | 5.8       |
| 77  | 3.8 | 20.13         | 16.37        | 1.102    | 5.4 | 68.4 | 6.4       |
| 77  | 4.2 | 20.32         | 16.55        | 1.105    | 5.4 | 69.1 | 7.7       |
| 86  | 2.2 | 20.55         | 16.77        | 1.108    | 5.4 | 70.8 | 2.4       |

**Table 40. Heating capacities 1.25 tons (gross) - EXHF015 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 86  | 2.8 | 21.18         | 17.37        | 1.117    | 5.6 | 73.6 | 3.7       |
| 86  | 3.1 | 21.39         | 17.57        | 1.119    | 5.6 | 74.7 | 4.4       |
| 86  | 3.5 | 21.64         | 17.81        | 1.122    | 5.7 | 75.8 | 5.4       |
| 86  | 3.6 | 21.66         | 17.83        | 1.121    | 5.7 | 76.1 | 5.7       |
| 86  | 3.8 | 21.79         | 17.95        | 1.124    | 5.7 | 76.6 | 6.2       |
| 86  | 4.2 | 21.93         | 18.09        | 1.125    | 5.7 | 77.4 | 7.4       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 3.5, Rated CFM 475, Minimum CFM 380, Maximum CFM 523.

**Table 41. Fan correction factors 1.25 tons - EXHF015**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 380          | 0.960            | 0.878             | 1.005              | 0.993            | 1.100              |
| 428          | 0.981            | 0.939             | 1.002              | 0.998            | 1.045              |
| 475          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 523          | 1.017            | 1.059             | 0.998              | 1.000            | 0.963              |

**Table 42. Correction factors for variation in entering air temperature 1.25 tons, EXHF015**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.944               | 1.010                     | 0.990                                     | 1.054 | 1.118 | *     | *     | 53.0                            | 1.012               | 0.842                  |
| 56.3                            | 0.943               | 1.012                     | 0.810                                     | 1.036 | 1.117 | *     | *     | 58.0                            | 1.006               | 0.891                  |
| 60.3                            | 0.943               | 1.012                     | 0.598                                     | 0.839 | 1.074 | *     | *     | 63.0                            | 1.002               | 0.943                  |
| 63.2                            | 0.965               | 1.008                     | 0.439                                     | 0.683 | 0.923 | 1.156 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.517 | 0.759 | 1.000 | 1.227 | 73.0                            | 0.993               | 1.054                  |
| 72.1                            | 1.081               | 0.978                     | —   | —     | 0.428 | 0.671 | 0.911 | 78.0                            | 0.989               | 1.110                  |
| 77.1                            | 1.147               | 0.950                     | —   | —     | —     | 0.384 | 0.625 | 83.0                            | 0.986               | 1.168                  |

**Note:** \* = Sensible equals total capacity

**Table 43. Cooling capacities 1.25 tons (gross) - EXVG015**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject<br>Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------------|-----------------|------|-----------|
| 45  | 2.4 | 19.0        | 13.5      | 0.71 | 0.56           | 20.9            | 62.4 | 4.8       |
| 45  | 3.0 | 19.1        | 13.6      | 0.71 | 0.53           | 20.9            | 58.9 | 7.0       |
| 45  | 3.4 | 19.1        | 13.6      | 0.71 | 0.51           | 20.8            | 57.2 | 8.6       |
| 45  | 3.8 | 19.1        | 13.6      | 0.71 | 0.50           | 20.8            | 56.1 | 10.2      |
| 45  | 3.9 | 19.1        | 13.6      | 0.71 | 0.50           | 20.8            | 55.7 | 10.9      |
| 45  | 4.1 | 19.1        | 13.6      | 0.71 | 0.49           | 20.8            | 55.1 | 11.9      |
| 45  | 4.5 | 19.1        | 13.6      | 0.71 | 0.48           | 20.8            | 54.2 | 14.0      |
| 55  | 2.4 | 18.4        | 13.4      | 0.73 | 0.67           | 20.7            | 72.3 | 4.5       |
| 55  | 3.0 | 18.4        | 13.4      | 0.73 | 0.63           | 20.6            | 68.7 | 6.5       |
| 55  | 3.4 | 18.5        | 13.4      | 0.72 | 0.62           | 20.6            | 67.1 | 8.1       |
| 55  | 3.8 | 18.5        | 13.4      | 0.72 | 0.61           | 20.6            | 66.0 | 9.5       |
| 55  | 3.9 | 18.5        | 13.4      | 0.72 | 0.61           | 20.6            | 65.6 | 10.2      |
| 55  | 4.1 | 18.5        | 13.4      | 0.72 | 0.60           | 20.6            | 65.0 | 11.1      |



## Performance Data

Table 43. Cooling capacities 1.25 tons (gross) - EXVG015 (continued)

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 55  | 4.5 | 18.5        | 13.4      | 0.72 | 0.59        | 20.5         | 64.1  | 13.1      |
| 68  | 2.4 | 17.6        | 13.1      | 0.74 | 0.80        | 20.3         | 84.9  | 4.2       |
| 68  | 3.0 | 17.6        | 13.1      | 0.74 | 0.77        | 20.2         | 81.5  | 6.1       |
| 68  | 3.4 | 17.6        | 13.1      | 0.74 | 0.75        | 20.2         | 79.9  | 7.5       |
| 68  | 3.8 | 17.7        | 13.2      | 0.75 | 0.74        | 20.2         | 78.8  | 8.8       |
| 68  | 3.9 | 17.7        | 13.2      | 0.75 | 0.74        | 20.2         | 78.4  | 9.5       |
| 68  | 4.1 | 17.7        | 13.2      | 0.75 | 0.74        | 20.2         | 77.9  | 10.3      |
| 68  | 4.5 | 17.7        | 13.2      | 0.75 | 0.73        | 20.2         | 77.0  | 12.2      |
| 75  | 2.4 | 17.1        | 13.0      | 0.76 | 0.87        | 20.1         | 91.8  | 4.0       |
| 75  | 3.0 | 17.1        | 13.0      | 0.76 | 0.84        | 20.0         | 88.3  | 5.9       |
| 75  | 3.4 | 17.2        | 13.1      | 0.76 | 0.82        | 20.0         | 86.8  | 7.3       |
| 75  | 3.8 | 17.2        | 13.1      | 0.76 | 0.81        | 20.0         | 85.7  | 8.6       |
| 75  | 3.9 | 17.2        | 13.1      | 0.76 | 0.81        | 20.0         | 85.3  | 9.2       |
| 75  | 4.1 | 17.2        | 13.1      | 0.76 | 0.80        | 19.9         | 84.7  | 10.0      |
| 75  | 4.5 | 17.2        | 13.1      | 0.76 | 0.80        | 19.9         | 83.8  | 11.8      |
| 86  | 2.4 | 16.3        | 12.7      | 0.78 | 0.99        | 19.7         | 102.4 | 3.9       |
| 86  | 3.0 | 16.4        | 12.8      | 0.78 | 0.96        | 19.7         | 99.1  | 5.6       |
| 86  | 3.4 | 16.4        | 12.8      | 0.78 | 0.95        | 19.6         | 97.5  | 6.9       |
| 86  | 3.8 | 16.4        | 12.8      | 0.78 | 0.94        | 19.6         | 96.5  | 8.2       |
| 86  | 3.9 | 16.4        | 12.8      | 0.78 | 0.93        | 19.6         | 96.1  | 8.8       |
| 86  | 4.1 | 16.4        | 12.8      | 0.78 | 0.93        | 19.6         | 95.6  | 9.6       |
| 86  | 4.5 | 16.4        | 12.8      | 0.78 | 0.92        | 19.5         | 94.7  | 11.3      |
| 95  | 2.4 | 15.7        | 12.5      | 0.80 | 1.11        | 19.5         | 111.3 | 3.7       |
| 95  | 3.0 | 15.7        | 12.5      | 0.80 | 1.08        | 19.4         | 107.9 | 5.5       |
| 95  | 3.4 | 15.7        | 12.5      | 0.80 | 1.07        | 19.3         | 106.4 | 6.7       |
| 95  | 3.8 | 15.7        | 12.5      | 0.80 | 1.06        | 19.3         | 105.3 | 8.0       |
| 95  | 3.9 | 15.7        | 12.5      | 0.80 | 1.06        | 19.3         | 104.9 | 8.5       |
| 95  | 4.1 | 15.7        | 12.5      | 0.80 | 1.05        | 19.3         | 104.4 | 9.3       |
| 95  | 4.5 | 15.8        | 12.5      | 0.79 | 1.04        | 19.4         | 103.6 | 11.0      |
| 105 | 2.4 | 14.9        | 12.1      | 0.81 | 1.27        | 19.2         | 121.0 | 3.6       |
| 105 | 3.0 | 14.9        | 12.1      | 0.81 | 1.23        | 19.1         | 117.7 | 5.3       |
| 105 | 3.4 | 14.9        | 12.1      | 0.81 | 1.22        | 19.1         | 116.2 | 6.6       |
| 105 | 3.8 | 15.0        | 12.1      | 0.81 | 1.21        | 19.1         | 115.2 | 7.7       |
| 105 | 3.9 | 15.0        | 12.1      | 0.81 | 1.21        | 19.1         | 114.8 | 8.3       |
| 105 | 4.1 | 15.0        | 12.1      | 0.81 | 1.20        | 19.1         | 114.3 | 9.0       |
| 105 | 4.5 | 15.0        | 12.1      | 0.81 | 1.19        | 19.1         | 113.5 | 10.7      |
| 115 | 2.4 | 14.1        | 11.7      | 0.83 | 1.43        | 19.0         | 130.8 | 3.6       |
| 115 | 3.0 | 14.1        | 11.7      | 0.83 | 1.40        | 18.9         | 127.6 | 5.2       |
| 115 | 3.4 | 14.1        | 11.7      | 0.83 | 1.38        | 18.8         | 126.1 | 6.4       |
| 115 | 3.8 | 14.1        | 11.7      | 0.83 | 1.37        | 18.8         | 125.0 | 7.6       |
| 115 | 3.9 | 14.1        | 11.7      | 0.83 | 1.37        | 18.8         | 124.6 | 8.1       |



**Table 43. Cooling capacities 1.25 tons (gross) - EXVG015 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 115 | 4.1 | 14.1        | 11.7      | 0.83 | 1.36        | 18.8         | 124.2 | 8.8       |
| 115 | 4.5 | 14.1        | 11.7      | 0.83 | 1.36        | 18.7         | 123.3 | 10.4      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHR/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 3.75; Minimum CFM 380; Rated CFM 475; Maximum CFM 570.

**Table 44. Heating capacities 1.25 tons (gross) - EXVG015**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 2.4 | 9.9           | 7.0          | 0.85        | 19.2 | 5.8       |
| 25  | 3.0 | 10.1          | 7.2          | 0.85        | 20.2 | 8.5       |
| 25  | 3.4 | 10.2          | 7.3          | 0.85        | 20.7 | 10.5      |
| 25  | 3.8 | 10.3          | 7.4          | 0.85        | 21.1 | 12.4      |
| 25  | 3.9 | 10.3          | 7.4          | 0.86        | 21.2 | 13.3      |
| 25  | 4.1 | 10.3          | 7.4          | 0.86        | 21.4 | 14.5      |
| 25  | 4.5 | 10.4          | 7.5          | 0.86        | 21.7 | 17.1      |
| 32  | 2.4 | 11.1          | 8.1          | 0.87        | 25.3 | 5.4       |
| 32  | 3.0 | 11.3          | 8.3          | 0.87        | 26.5 | 7.9       |
| 32  | 3.4 | 11.4          | 8.4          | 0.88        | 27.1 | 9.7       |
| 32  | 3.8 | 11.5          | 8.5          | 0.88        | 27.5 | 11.5      |
| 32  | 3.9 | 11.6          | 8.6          | 0.88        | 27.6 | 12.3      |
| 32  | 4.1 | 11.6          | 8.6          | 0.88        | 27.8 | 13.4      |
| 32  | 4.5 | 11.7          | 8.7          | 0.88        | 28.1 | 15.7      |
| 45  | 2.4 | 13.5          | 10.4         | 0.92        | 36.3 | 4.8       |
| 45  | 3.0 | 13.8          | 10.6         | 0.93        | 37.9 | 7.0       |
| 45  | 3.4 | 13.9          | 10.7         | 0.93        | 38.7 | 8.6       |
| 45  | 3.8 | 14.0          | 10.8         | 0.93        | 39.2 | 10.2      |
| 45  | 3.9 | 14.1          | 10.9         | 0.93        | 39.4 | 10.9      |
| 45  | 4.1 | 14.1          | 10.9         | 0.93        | 39.7 | 11.9      |
| 45  | 4.5 | 14.2          | 11.0         | 0.93        | 40.1 | 14.0      |
| 55  | 2.4 | 15.4          | 12.1         | 0.95        | 44.9 | 4.5       |
| 55  | 3.0 | 15.8          | 12.5         | 0.96        | 46.7 | 6.5       |
| 55  | 3.4 | 16.0          | 12.7         | 0.96        | 47.5 | 8.1       |
| 55  | 3.8 | 16.1          | 12.8         | 0.96        | 48.2 | 9.5       |
| 55  | 3.9 | 16.1          | 12.8         | 0.96        | 48.4 | 10.2      |
| 55  | 4.1 | 16.2          | 12.9         | 0.96        | 48.7 | 11.1      |
| 55  | 4.5 | 16.3          | 13.0         | 0.97        | 49.2 | 13.1      |
| 68  | 2.4 | 18.0          | 14.6         | 0.99        | 55.8 | 4.2       |
| 68  | 3.0 | 18.4          | 15.0         | 0.99        | 58.0 | 6.1       |
| 68  | 3.4 | 18.7          | 15.3         | 0.99        | 59.0 | 7.5       |
| 68  | 3.8 | 18.9          | 15.5         | 1.00        | 59.7 | 8.8       |
| 68  | 3.9 | 18.9          | 15.5         | 1.00        | 60.1 | 9.5       |
| 68  | 4.1 | 19.0          | 15.6         | 1.00        | 60.4 | 10.3      |



## Performance Data

**Table 44. Heating capacities 1.25 tons (gross) - EXVG015 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 68  | 4.5 | 19.1          | 15.7         | 1.00        | 61.0 | 12.2      |
| 75  | 2.4 | 19.4          | 16.0         | 1.00        | 61.7 | 4.0       |
| 75  | 3.0 | 19.9          | 16.5         | 1.01        | 64.0 | 5.9       |
| 75  | 3.4 | 20.2          | 16.8         | 1.01        | 65.1 | 7.3       |
| 75  | 3.8 | 20.4          | 17.0         | 1.01        | 65.9 | 8.6       |
| 75  | 3.9 | 20.4          | 16.9         | 1.01        | 66.3 | 9.2       |
| 75  | 4.1 | 20.5          | 17.0         | 1.01        | 66.7 | 10.0      |
| 75  | 4.5 | 20.7          | 17.2         | 1.01        | 67.4 | 11.8      |
| 86  | 2.4 | 21.6          | 18.1         | 1.03        | 70.9 | 3.9       |
| 86  | 3.0 | 22.2          | 18.7         | 1.03        | 73.5 | 5.6       |
| 86  | 3.4 | 22.5          | 19.0         | 1.04        | 74.8 | 6.9       |
| 86  | 3.8 | 22.8          | 19.3         | 1.04        | 75.7 | 8.2       |
| 86  | 3.9 | 22.8          | 19.3         | 1.04        | 76.1 | 8.8       |
| 86  | 4.1 | 23.0          | 19.5         | 1.04        | 76.5 | 9.6       |
| 86  | 4.5 | 23.1          | 19.6         | 1.04        | 77.3 | 11.3      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 3.75; Minimum CFM 380; Rated CFM 475; Maximum CFM 570.

**Table 45. Fan correction factors 1.25 tons - EXVG015**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 380          | 0.957            | 0.886             | 1.010              | 0.982            | 1.103              |
| 404          | 0.969            | 0.915             | 1.007              | 0.988            | 1.073              |
| 428          | 0.980            | 0.944             | 1.005              | 0.992            | 1.046              |
| 451          | 0.990            | 0.972             | 1.002              | 0.996            | 1.022              |
| 475          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 523          | 1.017            | 1.054             | 0.996              | 1.006            | 0.962              |
| 546          | 1.024            | 1.079             | 0.994              | 1.009            | 0.946              |
| 570          | 1.031            | 1.106             | 0.992              | 1.011            | 0.929              |

**Table 46. Correction factors for variation in entering air temperature 1.25 tons, EXVG015**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.870               | 1.021                     | 0.959                                     | 1.048 | 1.119 | *     | *     | 53.0                            | 1.034               | 0.819                  |
| 56.3                            | 0.876               | 1.022                     | 0.816                                     | 0.965 | 1.083 | *     | *     | 58.0                            | 1.023               | 0.879                  |
| 60.3                            | 0.901               | 1.017                     | 0.673                                     | 0.861 | 1.012 | 1.137 | *     | 63.0                            | 1.012               | 0.939                  |
| 63.2                            | 0.949               | 1.010                     | 0.541                                     | 0.758 | 0.934 | 1.080 | 1.208 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.629 | 0.831 | 1.000 | 1.146 | 73.0                            | 0.987               | 1.062                  |
| 72.1                            | 1.122               | 0.971                     | —   | —     | 0.574 | 0.788 | 0.973 | 78.0                            | 0.974               | 1.124                  |
| 77.1                            | 1.222               | 0.940                     | —   | —     | —     | —     | 0.780 | 83.0                            | 0.961               | 1.187                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 1.5 tons

**Table 47. Cooling capacities 1.5 tons (gross) - EXHF018**

| EWT | GPM | Gross Mbtuh | Gross Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------------|------|-------------|--------------|-------|-----------|
| 45  | 2.9 | 22.8        | 17.3            | 0.76 | 0.59        | 24.8         | 62.1  | 1.0       |
| 45  | 3.6 | 22.8        | 17.3            | 0.76 | 0.55        | 24.7         | 58.7  | 1.4       |
| 45  | 4.1 | 22.9        | 17.4            | 0.76 | 0.53        | 24.7         | 57.0  | 1.8       |
| 45  | 4.5 | 22.9        | 17.4            | 0.76 | 0.52        | 24.7         | 56.0  | 2.2       |
| 45  | 4.7 | 23.0        | 17.5            | 0.76 | 0.51        | 24.8         | 55.6  | 2.3       |
| 45  | 5.0 | 23.0        | 17.5            | 0.76 | 0.51        | 24.7         | 54.9  | 2.6       |
| 45  | 5.4 | 23.0        | 17.5            | 0.76 | 0.50        | 24.7         | 54.1  | 3.0       |
| 55  | 2.9 | 22.1        | 17.0            | 0.77 | 0.74        | 24.6         | 72.0  | 0.9       |
| 55  | 3.6 | 22.2        | 17.1            | 0.77 | 0.70        | 24.6         | 68.7  | 1.3       |
| 55  | 4.1 | 22.2        | 17.1            | 0.77 | 0.68        | 24.5         | 67.0  | 1.7       |
| 55  | 4.5 | 22.3        | 17.2            | 0.77 | 0.67        | 24.6         | 65.9  | 2.0       |
| 55  | 4.7 | 22.3        | 17.2            | 0.77 | 0.67        | 24.6         | 65.5  | 2.2       |
| 55  | 5.0 | 22.3        | 17.2            | 0.77 | 0.66        | 24.5         | 64.8  | 2.4       |
| 55  | 5.4 | 22.3        | 17.2            | 0.77 | 0.65        | 24.5         | 64.1  | 2.8       |
| 68  | 2.9 | 21.0        | 16.5            | 0.79 | 0.91        | 24.1         | 84.6  | 0.8       |
| 68  | 3.6 | 21.1        | 16.6            | 0.79 | 0.87        | 24.1         | 81.4  | 1.2       |
| 68  | 4.1 | 21.1        | 16.6            | 0.79 | 0.85        | 24.0         | 79.7  | 1.6       |
| 68  | 4.5 | 21.2        | 16.7            | 0.79 | 0.84        | 24.1         | 78.7  | 1.8       |
| 68  | 4.7 | 21.2        | 16.7            | 0.79 | 0.83        | 24.0         | 78.2  | 2.0       |
| 68  | 5.0 | 21.2        | 16.7            | 0.79 | 0.83        | 24.0         | 77.6  | 2.2       |
| 68  | 5.4 | 21.3        | 16.7            | 0.78 | 0.82        | 24.1         | 76.9  | 2.5       |
| 75  | 2.9 | 20.4        | 16.2            | 0.79 | 0.99        | 23.8         | 91.4  | 0.8       |
| 75  | 3.6 | 20.5        | 16.3            | 0.80 | 0.95        | 23.8         | 88.2  | 1.2       |
| 75  | 4.1 | 20.6        | 16.3            | 0.79 | 0.93        | 23.8         | 86.6  | 1.5       |
| 75  | 4.5 | 20.6        | 16.3            | 0.79 | 0.92        | 23.7         | 85.5  | 1.8       |
| 75  | 4.7 | 20.7        | 16.4            | 0.79 | 0.92        | 23.8         | 85.1  | 1.9       |
| 75  | 5.0 | 20.7        | 16.4            | 0.79 | 0.91        | 23.8         | 84.5  | 2.2       |
| 75  | 5.4 | 20.7        | 16.4            | 0.79 | 0.90        | 23.8         | 83.8  | 2.5       |
| 86  | 2.9 | 19.7        | 15.8            | 0.80 | 1.13        | 23.6         | 102.3 | 0.8       |
| 86  | 3.6 | 19.8        | 15.9            | 0.80 | 1.10        | 23.5         | 99.1  | 1.2       |
| 86  | 4.1 | 19.8        | 15.9            | 0.80 | 1.08        | 23.5         | 97.5  | 1.5       |
| 86  | 4.5 | 19.8        | 15.9            | 0.80 | 1.07        | 23.4         | 96.4  | 1.7       |
| 86  | 4.7 | 19.9        | 16.0            | 0.80 | 1.06        | 23.5         | 96.0  | 1.9       |
| 86  | 5.0 | 19.9        | 16.0            | 0.80 | 1.05        | 23.5         | 95.4  | 2.1       |
| 86  | 5.4 | 19.9        | 16.0            | 0.80 | 1.05        | 23.5         | 94.7  | 2.4       |
| 95  | 2.9 | 19.0        | 15.4            | 0.81 | 1.27        | 23.3         | 111.1 | 0.8       |
| 95  | 3.6 | 19.1        | 15.5            | 0.81 | 1.23        | 23.3         | 107.9 | 1.2       |
| 95  | 4.1 | 19.1        | 15.5            | 0.81 | 1.21        | 23.2         | 106.3 | 1.5       |
| 95  | 4.5 | 19.2        | 15.6            | 0.81 | 1.20        | 23.3         | 105.4 | 1.7       |
| 95  | 4.7 | 19.2        | 15.6            | 0.81 | 1.19        | 23.3         | 104.9 | 1.8       |
| 95  | 5.0 | 19.2        | 15.6            | 0.81 | 1.19        | 23.2         | 104.3 | 2.0       |
| 95  | 5.4 | 19.2        | 15.6            | 0.81 | 1.18        | 23.2         | 103.6 | 2.3       |



## Performance Data

**Table 47. Cooling capacities 1.5 tons (gross) - EXHF018 (continued)**

| EWT | GPM | Gross Mbtuh | Gross Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------------|------|-------------|--------------|-------|-----------|
| 105 | 2.9 | 18.1        | 15.0            | 0.83 | 1.43        | 23.0         | 120.9 | 0.8       |
| 105 | 3.6 | 18.2        | 15.1            | 0.83 | 1.39        | 22.9         | 117.7 | 1.1       |
| 105 | 4.1 | 18.2        | 15.1            | 0.83 | 1.37        | 22.9         | 116.2 | 1.4       |
| 105 | 4.5 | 18.2        | 15.1            | 0.83 | 1.36        | 22.8         | 115.1 | 1.7       |
| 105 | 4.7 | 18.3        | 15.2            | 0.83 | 1.36        | 22.9         | 114.7 | 1.8       |
| 105 | 5.0 | 18.3        | 15.2            | 0.83 | 1.35        | 22.9         | 114.2 | 2.0       |
| 105 | 5.4 | 18.3        | 15.2            | 0.83 | 1.34        | 22.9         | 113.5 | 2.3       |
| 115 | 2.9 | 17.0        | 14.5            | 0.85 | 1.60        | 22.5         | 130.5 | 0.8       |
| 115 | 3.6 | 17.1        | 14.6            | 0.85 | 1.56        | 22.4         | 127.4 | 1.1       |
| 115 | 4.1 | 17.2        | 14.7            | 0.85 | 1.54        | 22.5         | 126.0 | 1.4       |
| 115 | 4.5 | 17.2        | 14.7            | 0.85 | 1.53        | 22.4         | 125.0 | 1.6       |
| 115 | 4.7 | 17.3        | 14.8            | 0.86 | 1.53        | 22.5         | 124.6 | 1.8       |
| 115 | 5.0 | 17.3        | 14.8            | 0.86 | 1.52        | 22.5         | 124.0 | 2.0       |
| 115 | 5.4 | 17.3        | 14.8            | 0.86 | 1.51        | 22.5         | 123.3 | 2.2       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 4.2; Minimum CFM 456; Rated CFM 570; Maximum CFM 627.

**Table 48. Heating capacities 1.5 tons (gross) - EXHF018**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 4.2 | 12.72         | 9.04         | 1.078    | 3.5 | 20.7 | 7.0       |
| 25  | 4.4 | 12.82         | 9.14         | 1.078    | 3.5 | 20.8 | 7.6       |
| 25  | 4.6 | 12.82         | 9.14         | 1.078    | 3.5 | 21.0 | 8.2       |
| 25  | 5.0 | 12.92         | 9.21         | 1.088    | 3.5 | 21.3 | 9.5       |
| 32  | 2.7 | 13.52         | 9.77         | 1.098    | 3.6 | 24.8 | 3.1       |
| 32  | 3.3 | 13.82         | 10.07        | 1.098    | 3.7 | 25.9 | 4.5       |
| 32  | 3.7 | 14.02         | 10.27        | 1.098    | 3.7 | 26.4 | 5.4       |
| 32  | 4.2 | 14.12         | 10.34        | 1.108    | 3.7 | 27.1 | 6.8       |
| 32  | 4.4 | 14.22         | 10.44        | 1.108    | 3.8 | 27.3 | 7.3       |
| 32  | 4.6 | 14.22         | 10.44        | 1.108    | 3.8 | 27.5 | 7.9       |
| 32  | 5.0 | 14.42         | 10.64        | 1.108    | 3.8 | 27.7 | 9.2       |
| 45  | 2.7 | 17.02         | 13.03        | 1.168    | 4.3 | 35.3 | 2.2       |
| 45  | 3.3 | 17.42         | 13.40        | 1.178    | 4.3 | 36.9 | 3.1       |
| 45  | 3.7 | 17.62         | 13.60        | 1.178    | 4.4 | 37.6 | 3.8       |
| 45  | 4.2 | 17.82         | 13.77        | 1.188    | 4.4 | 38.4 | 4.7       |
| 45  | 4.4 | 17.82         | 13.77        | 1.188    | 4.4 | 38.7 | 5.1       |
| 45  | 4.6 | 17.92         | 13.87        | 1.188    | 4.4 | 39.0 | 5.5       |
| 45  | 5.0 | 18.12         | 14.07        | 1.188    | 4.5 | 39.4 | 6.4       |
| 55  | 2.7 | 19.32         | 15.20        | 1.208    | 4.7 | 43.7 | 2.1       |
| 55  | 3.3 | 19.82         | 15.66        | 1.218    | 4.8 | 45.5 | 3.0       |
| 55  | 3.7 | 20.02         | 15.83        | 1.228    | 4.8 | 46.4 | 3.6       |
| 55  | 4.2 | 20.32         | 16.13        | 1.228    | 4.8 | 47.3 | 4.5       |
| 55  | 4.4 | 20.32         | 16.13        | 1.228    | 4.8 | 47.7 | 4.9       |
| 55  | 4.6 | 20.42         | 16.23        | 1.228    | 4.9 | 47.9 | 5.3       |

**Table 48. Heating capacities 1.5 tons (gross) - EXHF018 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 55  | 5.0 | 20.52         | 16.29        | 1.238    | 4.9 | 48.5 | 6.2       |
| 68  | 2.7 | 22.62         | 18.22        | 1.288    | 5.1 | 54.5 | 2.0       |
| 68  | 3.3 | 23.12         | 18.69        | 1.298    | 5.2 | 56.7 | 2.8       |
| 68  | 3.7 | 23.32         | 18.92        | 1.288    | 5.3 | 57.8 | 3.4       |
| 68  | 4.2 | 23.62         | 19.19        | 1.298    | 5.3 | 58.9 | 4.3       |
| 68  | 4.4 | 23.62         | 19.19        | 1.298    | 5.3 | 59.3 | 4.6       |
| 68  | 4.6 | 23.72         | 19.29        | 1.298    | 5.4 | 59.6 | 5.0       |
| 68  | 5.0 | 23.82         | 19.39        | 1.298    | 5.4 | 60.2 | 5.8       |
| 75  | 2.7 | 24.12         | 19.66        | 1.308    | 5.4 | 60.4 | 1.9       |
| 75  | 3.3 | 24.62         | 20.16        | 1.308    | 5.5 | 62.8 | 2.7       |
| 75  | 3.7 | 24.92         | 20.46        | 1.308    | 5.6 | 63.9 | 3.3       |
| 75  | 4.2 | 25.22         | 20.72        | 1.318    | 5.6 | 65.1 | 4.2       |
| 75  | 4.4 | 25.12         | 20.66        | 1.308    | 5.6 | 65.6 | 4.5       |
| 75  | 4.6 | 25.32         | 20.86        | 1.308    | 5.7 | 65.9 | 4.9       |
| 75  | 5.0 | 25.42         | 20.96        | 1.308    | 5.7 | 66.6 | 5.7       |
| 77  | 2.7 | 26.02         | 21.52        | 1.318    | 5.8 | 61.1 | 1.9       |
| 77  | 3.3 | 26.52         | 22.02        | 1.318    | 5.9 | 63.7 | 2.7       |
| 77  | 3.7 | 26.72         | 22.22        | 1.318    | 5.9 | 65.0 | 3.3       |
| 77  | 4.2 | 26.82         | 22.36        | 1.308    | 6.0 | 66.4 | 4.1       |
| 77  | 4.4 | 26.92         | 22.46        | 1.308    | 6.0 | 66.8 | 4.4       |
| 77  | 4.6 | 26.92         | 22.49        | 1.298    | 6.1 | 67.2 | 4.8       |
| 77  | 5.0 | 27.12         | 22.69        | 1.298    | 6.1 | 67.9 | 5.5       |
| 86  | 2.7 | 26.42         | 21.92        | 1.318    | 5.9 | 69.8 | 1.9       |
| 86  | 3.3 | 26.92         | 22.42        | 1.318    | 6.0 | 72.4 | 2.7       |
| 86  | 3.7 | 27.12         | 22.62        | 1.318    | 6.0 | 73.8 | 3.3       |
| 86  | 4.2 | 27.22         | 22.76        | 1.308    | 6.1 | 75.2 | 4.1       |
| 86  | 4.4 | 27.32         | 22.86        | 1.308    | 6.1 | 75.6 | 4.4       |
| 86  | 4.6 | 27.32         | 22.89        | 1.298    | 6.2 | 76.0 | 4.8       |
| 86  | 5.0 | 27.52         | 23.09        | 1.298    | 6.2 | 76.8 | 5.5       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 4.2, Rated CFM 570, Minimum CFM 456, Maximum CFM 627.

**Table 49. Fan correction factors 1.5 tons - EXHF018**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 456          | 0.964            | 0.881             | 1.001              | 0.985            | 1.106              |
| 513          | 0.984            | 0.941             | 1.000              | 0.991            | 1.041              |
| 570          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 627          | 1.012            | 1.057             | 1.001              | 1.003            | 0.964              |



## Performance Data

**Table 50. Correction factors for variation in entering air temperature 1.5 tons, EXHF018**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.915               | 1.022                     | 0.968                                     | 1.035 | 1.104 | *     | *     | 53.0                            | 1.017               | 0.843                  |
| 56.3                            | 0.914               | 1.022                     | 0.806                                     | 1.010 | 1.103 | *     | *     | 58.0                            | 1.012               | 0.894                  |
| 60.3                            | 0.914               | 1.023                     | 0.619                                     | 0.841 | 1.052 | *     | *     | 63.0                            | 1.004               | 0.944                  |
| 63.2                            | 0.941               | 1.020                     | 0.477                                     | 0.702 | 0.925 | 1.130 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.554 | 0.775 | 1.000 | 1.201 | 73.0                            | 0.993               | 1.058                  |
| 72.1                            | 1.066               | 0.967                     | —   | —     | 0.471 | 0.696 | 0.917 | 78.0                            | 0.981               | 1.115                  |
| 77.1                            | 1.117               | 0.944                     | —   | —     | —     | 0.431 | 0.654 | 83.0                            | 0.973               | 1.173                  |

Note: \* = Sensible equals total capacity

**Table 51. Cooling capacities 1.5 tons (gross) - EXVG018**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------------|--------------|-------|-----------|
| 45  | 2.9 | 22.8        | 17.3      | 0.76 | 0.59           | 24.8         | 62.1  | 1.0       |
| 45  | 3.6 | 22.8        | 17.3      | 0.76 | 0.55           | 24.7         | 58.7  | 1.6       |
| 45  | 4.1 | 22.9        | 17.4      | 0.76 | 0.53           | 24.7         | 57.0  | 2.0       |
| 45  | 4.5 | 22.9        | 17.4      | 0.76 | 0.52           | 24.7         | 56.0  | 2.3       |
| 45  | 4.7 | 23.0        | 17.5      | 0.76 | 0.51           | 24.8         | 55.6  | 2.5       |
| 45  | 5.0 | 23.0        | 17.5      | 0.76 | 0.51           | 24.7         | 54.9  | 2.8       |
| 45  | 5.4 | 23.0        | 17.5      | 0.76 | 0.50           | 24.7         | 54.1  | 3.2       |
| 55  | 2.9 | 22.1        | 17.0      | 0.77 | 0.74           | 24.6         | 72.0  | 1.0       |
| 55  | 3.6 | 22.2        | 17.1      | 0.77 | 0.70           | 24.6         | 68.7  | 1.4       |
| 55  | 4.1 | 22.2        | 17.1      | 0.77 | 0.68           | 24.5         | 67.0  | 1.8       |
| 55  | 4.5 | 22.3        | 17.2      | 0.77 | 0.67           | 24.6         | 65.9  | 2.1       |
| 55  | 4.7 | 22.3        | 17.2      | 0.77 | 0.67           | 24.6         | 65.5  | 2.3       |
| 55  | 5.0 | 22.3        | 17.2      | 0.77 | 0.66           | 24.5         | 64.8  | 2.6       |
| 55  | 5.4 | 22.3        | 17.2      | 0.77 | 0.65           | 24.5         | 64.1  | 3.0       |
| 68  | 2.9 | 21.0        | 16.5      | 0.79 | 0.91           | 24.1         | 84.6  | 0.9       |
| 68  | 3.6 | 21.1        | 16.6      | 0.79 | 0.87           | 24.1         | 81.4  | 1.3       |
| 68  | 4.1 | 21.1        | 16.6      | 0.79 | 0.85           | 24.0         | 79.7  | 1.7       |
| 68  | 4.5 | 21.2        | 16.7      | 0.79 | 0.84           | 24.1         | 78.7  | 2.0       |
| 68  | 4.7 | 21.2        | 16.7      | 0.79 | 0.83           | 24.0         | 78.2  | 2.2       |
| 68  | 5.0 | 21.2        | 16.7      | 0.79 | 0.83           | 24.0         | 77.6  | 2.4       |
| 68  | 5.4 | 21.3        | 16.7      | 0.78 | 0.82           | 24.1         | 76.9  | 2.8       |
| 75  | 2.9 | 20.4        | 16.2      | 0.79 | 0.99           | 23.8         | 91.4  | 0.9       |
| 75  | 3.6 | 20.5        | 16.3      | 0.80 | 0.95           | 23.8         | 88.2  | 1.3       |
| 75  | 4.1 | 20.6        | 16.3      | 0.79 | 0.93           | 23.8         | 86.6  | 1.6       |
| 75  | 4.5 | 20.6        | 16.3      | 0.79 | 0.92           | 23.7         | 85.5  | 1.9       |
| 75  | 4.7 | 20.7        | 16.4      | 0.79 | 0.92           | 23.8         | 85.1  | 2.1       |
| 75  | 5.0 | 20.7        | 16.4      | 0.79 | 0.91           | 23.8         | 84.5  | 2.3       |
| 75  | 5.4 | 20.7        | 16.4      | 0.79 | 0.90           | 23.8         | 83.8  | 2.7       |
| 86  | 2.9 | 19.7        | 15.8      | 0.80 | 1.13           | 23.6         | 102.3 | 0.9       |
| 86  | 3.6 | 19.8        | 15.9      | 0.80 | 1.10           | 23.5         | 99.1  | 1.3       |

**Table 51. Cooling capacities 1.5 tons (gross) - EXVG018 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 4.1 | 19.8        | 15.9      | 0.80 | 1.08        | 23.5         | 97.5  | 1.6       |
| 86  | 4.5 | 19.8        | 15.9      | 0.80 | 1.07        | 23.4         | 96.4  | 1.9       |
| 86  | 4.7 | 19.9        | 16.0      | 0.80 | 1.06        | 23.5         | 96.0  | 2.0       |
| 86  | 5.0 | 19.9        | 16.0      | 0.80 | 1.05        | 23.5         | 95.4  | 2.2       |
| 86  | 5.4 | 19.9        | 16.0      | 0.80 | 1.05        | 23.5         | 94.7  | 2.6       |
| 95  | 2.9 | 19.0        | 15.4      | 0.81 | 1.27        | 23.3         | 111.1 | 0.9       |
| 95  | 3.6 | 19.1        | 15.5      | 0.81 | 1.23        | 23.3         | 107.9 | 1.3       |
| 95  | 4.1 | 19.1        | 15.5      | 0.81 | 1.21        | 23.2         | 106.3 | 1.6       |
| 95  | 4.5 | 19.2        | 15.6      | 0.81 | 1.20        | 23.3         | 105.4 | 1.8       |
| 95  | 4.7 | 19.2        | 15.6      | 0.81 | 1.19        | 23.3         | 104.9 | 2.0       |
| 95  | 5.0 | 19.2        | 15.6      | 0.81 | 1.19        | 23.2         | 104.3 | 2.2       |
| 95  | 5.4 | 19.2        | 15.6      | 0.81 | 1.18        | 23.2         | 103.6 | 2.5       |
| 105 | 2.9 | 18.1        | 15.0      | 0.83 | 1.43        | 23.0         | 120.9 | 0.9       |
| 105 | 3.6 | 18.2        | 15.1      | 0.83 | 1.39        | 22.9         | 117.7 | 1.2       |
| 105 | 4.1 | 18.2        | 15.1      | 0.83 | 1.37        | 22.9         | 116.2 | 1.5       |
| 105 | 4.5 | 18.2        | 15.1      | 0.83 | 1.36        | 22.8         | 115.1 | 1.8       |
| 105 | 4.7 | 18.3        | 15.2      | 0.83 | 1.36        | 22.9         | 114.7 | 1.9       |
| 105 | 5.0 | 18.3        | 15.2      | 0.83 | 1.35        | 22.9         | 114.2 | 2.2       |
| 105 | 5.4 | 18.3        | 15.2      | 0.83 | 1.34        | 22.9         | 113.5 | 2.5       |
| 115 | 2.9 | 17.0        | 14.5      | 0.85 | 1.60        | 22.5         | 130.5 | 0.8       |
| 115 | 3.6 | 17.1        | 14.6      | 0.85 | 1.56        | 22.4         | 127.4 | 1.2       |
| 115 | 4.1 | 17.2        | 14.7      | 0.85 | 1.54        | 22.5         | 126.0 | 1.5       |
| 115 | 4.5 | 17.2        | 14.7      | 0.85 | 1.53        | 22.4         | 125.0 | 1.8       |
| 115 | 4.7 | 17.3        | 14.8      | 0.86 | 1.53        | 22.5         | 124.6 | 1.9       |
| 115 | 5.0 | 17.3        | 14.8      | 0.86 | 1.52        | 22.5         | 124.0 | 2.1       |
| 115 | 5.4 | 17.3        | 14.8      | 0.86 | 1.51        | 22.5         | 123.3 | 2.4       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 4.5; Minimum CFM 456; Rated CFM 570; Maximum CFM 684.

**Table 52. Heating capacities 1.5 tons (gross) - EXVG018**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 2.9 | 11.7          | 8.3          | 1.00        | 19.3 | 1.4       |
| 25  | 3.6 | 12.0          | 8.6          | 1.00        | 20.2 | 2.0       |
| 25  | 4.1 | 12.1          | 8.7          | 1.00        | 20.8 | 2.5       |
| 25  | 4.5 | 12.2          | 8.8          | 1.01        | 21.1 | 2.9       |
| 25  | 4.7 | 12.2          | 8.8          | 1.01        | 21.3 | 3.1       |
| 25  | 5.0 | 12.3          | 8.9          | 1.01        | 21.4 | 3.5       |
| 25  | 5.4 | 12.4          | 9.0          | 1.01        | 21.7 | 4.0       |
| 32  | 2.9 | 13.0          | 9.5          | 1.02        | 25.4 | 1.2       |
| 32  | 3.6 | 13.3          | 9.8          | 1.02        | 26.6 | 1.8       |
| 32  | 4.1 | 13.5          | 10.0         | 1.03        | 27.1 | 2.3       |



## Performance Data

**Table 52. Heating capacities 1.5 tons (gross) - EXVG018 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 32  | 4.5 | 13.5          | 10.0         | 1.03        | 27.6 | 2.7       |
| 32  | 4.7 | 13.6          | 10.1         | 1.03        | 27.7 | 2.9       |
| 32  | 5.0 | 13.6          | 10.1         | 1.03        | 28.0 | 3.2       |
| 32  | 5.4 | 13.7          | 10.2         | 1.03        | 28.2 | 3.7       |
| 45  | 2.9 | 16.1          | 12.4         | 1.07        | 36.4 | 1.0       |
| 45  | 3.6 | 16.5          | 12.8         | 1.08        | 37.9 | 1.6       |
| 45  | 4.1 | 16.6          | 12.9         | 1.08        | 38.7 | 2.0       |
| 45  | 4.5 | 16.8          | 13.1         | 1.08        | 39.2 | 2.3       |
| 45  | 4.7 | 16.8          | 13.1         | 1.08        | 39.4 | 2.5       |
| 45  | 5.0 | 16.9          | 13.2         | 1.08        | 39.7 | 2.8       |
| 45  | 5.4 | 17.0          | 13.3         | 1.09        | 40.1 | 3.2       |
| 55  | 2.9 | 18.6          | 14.8         | 1.12        | 44.8 | 1.0       |
| 55  | 3.6 | 19.0          | 15.2         | 1.13        | 46.6 | 1.4       |
| 55  | 4.1 | 19.3          | 15.4         | 1.13        | 47.5 | 1.8       |
| 55  | 4.5 | 19.4          | 15.5         | 1.13        | 48.1 | 2.1       |
| 55  | 4.7 | 19.5          | 15.6         | 1.13        | 48.4 | 2.3       |
| 55  | 5.0 | 19.6          | 15.7         | 1.13        | 48.7 | 2.6       |
| 55  | 5.4 | 19.7          | 15.8         | 1.13        | 49.1 | 3.0       |
| 68  | 2.9 | 21.8          | 17.8         | 1.18        | 55.7 | 0.9       |
| 68  | 3.6 | 22.3          | 18.3         | 1.19        | 57.8 | 1.3       |
| 68  | 4.1 | 22.6          | 18.5         | 1.19        | 59.0 | 1.7       |
| 68  | 4.5 | 22.8          | 18.7         | 1.19        | 59.7 | 2.0       |
| 68  | 4.7 | 22.9          | 18.8         | 1.19        | 60.0 | 2.2       |
| 68  | 5.0 | 23.1          | 19.0         | 1.19        | 60.4 | 2.4       |
| 68  | 5.4 | 23.2          | 19.1         | 1.20        | 60.9 | 2.8       |
| 75  | 2.9 | 23.4          | 19.3         | 1.21        | 61.7 | 0.9       |
| 75  | 3.6 | 24.1          | 20.0         | 1.21        | 63.9 | 1.3       |
| 75  | 4.1 | 24.4          | 20.2         | 1.22        | 65.1 | 1.6       |
| 75  | 4.5 | 24.6          | 20.4         | 1.22        | 65.9 | 1.9       |
| 75  | 4.7 | 24.7          | 20.5         | 1.22        | 66.3 | 2.1       |
| 75  | 5.0 | 24.9          | 20.7         | 1.22        | 66.7 | 2.3       |
| 75  | 5.4 | 25.0          | 20.8         | 1.23        | 67.3 | 2.7       |
| 86  | 2.9 | 26.0          | 21.8         | 1.24        | 71.0 | 0.9       |
| 86  | 3.6 | 26.7          | 22.5         | 1.24        | 73.5 | 1.3       |
| 86  | 4.1 | 27.1          | 22.8         | 1.25        | 74.9 | 1.6       |
| 86  | 4.5 | 27.4          | 23.1         | 1.25        | 75.7 | 1.9       |
| 86  | 4.7 | 27.5          | 23.2         | 1.25        | 76.1 | 2.0       |
| 86  | 5.0 | 27.7          | 23.4         | 1.26        | 76.6 | 2.2       |
| 86  | 5.4 | 27.8          | 23.5         | 1.26        | 77.3 | 2.6       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 4.5; Minimum CFM 456; Rated CFM 570; Maximum CFM 684.



**Table 53. Fan correction factors 1.5 tons - EXVG018**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 456          | 0.958            | 0.875             | 1.009               | 0.980            | 1.108               |
| 485          | 0.970            | 0.907             | 1.006               | 0.986            | 1.076               |
| 513          | 0.981            | 0.938             | 1.004               | 0.991            | 1.048               |
| 542          | 0.991            | 0.970             | 1.002               | 0.996            | 1.022               |
| 570          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 627          | 1.017            | 1.061             | 0.996               | 1.007            | 0.960               |
| 656          | 1.025            | 1.091             | 0.994               | 1.010            | 0.942               |
| 684          | 1.032            | 1.120             | 0.993               | 1.012            | 0.927               |

**Table 54. Correction factors for variation in entering air temperature 1.5 tons, EXVG018**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.872               | 1.015                     | 0.949                                     | 1.032 | 1.090 | *     | *     | 53.0                            | 1.038               | 0.819                  |
| 56.3                            | 0.878               | 1.018                     | 0.805                                     | 0.955 | 1.073 | *     | *     | 58.0                            | 1.026               | 0.879                  |
| 60.3                            | 0.900               | 1.015                     | 0.658                                     | 0.851 | 1.006 | 1.133 | *     | 63.0                            | 1.013               | 0.939                  |
| 63.2                            | 0.948               | 1.009                     | 0.523                                     | 0.746 | 0.928 | 1.079 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.614 | 0.825 | 1.000 | 1.147 | 73.0                            | 0.986               | 1.062                  |
| 72.1                            | 1.115               | 0.975                     | —   | —     | 0.562 | 0.784 | 0.973 | 78.0                            | 0.972               | 1.125                  |
| 77.1                            | 1.221               | 0.946                     | —   | —     | —     | —     | 0.775 | 83.0                            | 0.958               | 1.188                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 2 tons

**Table 55. Cooling capacities 2 tons (gross) - EXHF024**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 3.6 | 27.17       | 20.17     | 0.74 | 0.774    | 35.1 | 29.81        | 61.6 | 3.3       |
| 45  | 4.4 | 27.57       | 20.27     | 0.74 | 0.734    | 37.6 | 30.08        | 58.7 | 4.7       |
| 45  | 5.0 | 27.47       | 20.17     | 0.73 | 0.704    | 39.0 | 29.87        | 56.9 | 5.9       |
| 45  | 5.6 | 27.67       | 20.27     | 0.73 | 0.684    | 40.5 | 30.00        | 55.7 | 7.3       |
| 45  | 5.8 | 27.77       | 20.37     | 0.73 | 0.684    | 40.6 | 30.10        | 55.4 | 7.7       |
| 45  | 6.1 | 27.77       | 20.47     | 0.74 | 0.674    | 41.2 | 30.07        | 54.9 | 8.4       |
| 45  | 6.6 | 27.87       | 20.37     | 0.73 | 0.664    | 42.0 | 30.14        | 54.1 | 9.7       |
| 55  | 3.6 | 26.17       | 19.67     | 0.75 | 0.924    | 28.3 | 29.32        | 71.3 | 3.2       |
| 55  | 4.4 | 26.47       | 19.77     | 0.75 | 0.894    | 29.6 | 29.52        | 68.4 | 4.6       |
| 55  | 5.0 | 26.67       | 19.87     | 0.75 | 0.874    | 30.5 | 29.65        | 66.9 | 5.7       |
| 55  | 5.6 | 26.77       | 19.97     | 0.75 | 0.854    | 31.3 | 29.68        | 65.6 | 7.0       |
| 55  | 5.8 | 26.67       | 19.87     | 0.75 | 0.844    | 31.6 | 29.55        | 65.2 | 7.4       |
| 55  | 6.1 | 26.77       | 19.97     | 0.75 | 0.834    | 32.1 | 29.62        | 64.7 | 8.1       |
| 55  | 6.6 | 26.87       | 19.97     | 0.74 | 0.824    | 32.6 | 29.68        | 64.0 | 9.3       |
| 68  | 3.6 | 25.47       | 19.47     | 0.76 | 1.134    | 22.5 | 29.34        | 84.3 | 3.0       |
| 68  | 4.4 | 25.57       | 19.57     | 0.77 | 1.094    | 23.4 | 29.30        | 81.3 | 4.3       |
| 68  | 5.0 | 25.77       | 19.67     | 0.76 | 1.074    | 24.0 | 29.44        | 79.8 | 5.4       |
| 68  | 5.6 | 25.77       | 19.67     | 0.76 | 1.064    | 24.2 | 29.40        | 78.5 | 6.6       |



## Performance Data

Table 55. Cooling capacities 2 tons (gross) - EXHF024 (continued)

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 68  | 5.8 | 25.87       | 19.67     | 0.76 | 1.054    | 24.5 | 29.47        | 78.2  | 7.0       |
| 68  | 6.1 | 25.87       | 19.67     | 0.76 | 1.044    | 24.8 | 29.43        | 77.6  | 7.6       |
| 68  | 6.6 | 25.97       | 19.67     | 0.76 | 1.034    | 25.1 | 29.50        | 76.9  | 8.8       |
| 75  | 3.6 | 25.27       | 19.37     | 0.77 | 1.174    | 21.5 | 29.28        | 91.3  | 2.9       |
| 75  | 4.4 | 25.37       | 19.47     | 0.77 | 1.134    | 22.4 | 29.24        | 88.3  | 4.2       |
| 75  | 5.0 | 25.57       | 19.57     | 0.77 | 1.114    | 23.0 | 29.37        | 86.7  | 5.2       |
| 75  | 5.6 | 25.57       | 19.57     | 0.77 | 1.094    | 23.4 | 29.30        | 85.5  | 6.4       |
| 75  | 5.8 | 25.67       | 19.57     | 0.76 | 1.084    | 23.7 | 29.37        | 85.1  | 6.8       |
| 75  | 6.1 | 25.67       | 19.57     | 0.76 | 1.084    | 23.7 | 29.37        | 84.6  | 7.4       |
| 75  | 6.6 | 25.77       | 19.57     | 0.76 | 1.074    | 24.0 | 29.44        | 83.9  | 8.5       |
| 77  | 3.6 | 24.57       | 19.17     | 0.78 | 1.294    | 19.0 | 28.99        | 93.1  | 2.8       |
| 77  | 4.4 | 24.67       | 19.17     | 0.78 | 1.254    | 19.7 | 28.95        | 90.2  | 4.0       |
| 77  | 5.0 | 24.77       | 19.27     | 0.78 | 1.234    | 20.1 | 28.98        | 88.6  | 5.0       |
| 77  | 5.6 | 24.87       | 19.27     | 0.77 | 1.214    | 20.5 | 29.01        | 87.4  | 6.2       |
| 77  | 5.8 | 24.87       | 19.27     | 0.77 | 1.204    | 20.7 | 28.98        | 87.0  | 6.6       |
| 77  | 6.1 | 24.97       | 19.27     | 0.77 | 1.204    | 20.7 | 29.08        | 86.5  | 7.2       |
| 77  | 6.6 | 25.07       | 19.37     | 0.77 | 1.194    | 21.0 | 29.15        | 85.8  | 8.3       |
| 86  | 3.6 | 23.57       | 18.67     | 0.79 | 1.464    | 16.1 | 28.57        | 101.9 | 2.8       |
| 86  | 4.4 | 23.67       | 18.77     | 0.79 | 1.424    | 16.6 | 28.53        | 99.0  | 4.0       |
| 86  | 5.0 | 23.77       | 18.77     | 0.79 | 1.404    | 16.9 | 28.56        | 97.4  | 5.0       |
| 86  | 5.6 | 23.87       | 18.87     | 0.79 | 1.384    | 17.2 | 28.59        | 96.2  | 6.1       |
| 86  | 5.8 | 23.87       | 18.87     | 0.79 | 1.374    | 17.4 | 28.56        | 95.8  | 6.5       |
| 86  | 6.1 | 23.97       | 18.87     | 0.79 | 1.374    | 17.4 | 28.66        | 95.4  | 7.1       |
| 86  | 6.6 | 23.97       | 18.87     | 0.79 | 1.354    | 17.7 | 28.59        | 94.7  | 8.2       |
| 95  | 3.6 | 22.47       | 18.17     | 0.81 | 1.654    | 13.6 | 28.12        | 110.6 | 2.7       |
| 95  | 4.4 | 22.77       | 18.27     | 0.80 | 1.604    | 14.2 | 28.24        | 107.8 | 3.9       |
| 95  | 5.0 | 22.77       | 18.27     | 0.80 | 1.584    | 14.4 | 28.18        | 106.3 | 4.9       |
| 95  | 5.6 | 22.87       | 18.37     | 0.80 | 1.564    | 14.6 | 28.21        | 105.1 | 6.0       |
| 95  | 5.8 | 22.87       | 18.37     | 0.80 | 1.564    | 14.6 | 28.21        | 104.7 | 6.3       |
| 95  | 6.1 | 22.87       | 18.37     | 0.80 | 1.554    | 14.7 | 28.17        | 104.2 | 6.9       |
| 95  | 6.6 | 22.97       | 18.37     | 0.80 | 1.544    | 14.9 | 28.24        | 103.6 | 8.0       |
| 105 | 3.6 | 21.27       | 17.67     | 0.83 | 1.874    | 11.4 | 27.67        | 120.4 | 2.7       |
| 105 | 4.4 | 21.47       | 17.77     | 0.83 | 1.834    | 11.7 | 27.73        | 117.6 | 3.8       |
| 105 | 5.0 | 21.47       | 17.77     | 0.83 | 1.804    | 11.9 | 27.63        | 116.1 | 4.8       |
| 105 | 5.6 | 21.57       | 17.77     | 0.82 | 1.784    | 12.1 | 27.66        | 114.9 | 5.8       |
| 105 | 5.8 | 21.57       | 17.77     | 0.82 | 1.784    | 12.1 | 27.66        | 114.5 | 6.2       |
| 105 | 6.1 | 21.57       | 17.77     | 0.82 | 1.774    | 12.2 | 27.62        | 114.1 | 6.7       |
| 105 | 6.6 | 21.67       | 17.87     | 0.82 | 1.764    | 12.3 | 27.69        | 113.4 | 7.8       |
| 115 | 3.6 | 19.87       | 17.07     | 0.86 | 2.144    | 9.3  | 27.19        | 130.1 | 2.6       |
| 115 | 4.4 | 20.07       | 17.07     | 0.85 | 2.094    | 9.6  | 27.22        | 127.4 | 3.7       |
| 115 | 5.0 | 20.17       | 17.17     | 0.85 | 2.064    | 9.8  | 27.21        | 125.9 | 4.6       |
| 115 | 5.6 | 20.17       | 17.17     | 0.85 | 2.044    | 9.9  | 27.15        | 124.7 | 5.7       |
| 115 | 5.8 | 20.17       | 17.17     | 0.85 | 2.034    | 9.9  | 27.11        | 124.3 | 6.0       |

**Table 55. Cooling capacities 2 tons (gross) - EXHF024 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 115 | 6.1 | 20.27       | 17.17     | 0.85 | 2.024    | 10.0 | 27.18        | 123.9 | 6.6       |
| 115 | 6.6 | 20.27       | 17.17     | 0.85 | 2.014    | 10.1 | 27.14        | 123.2 | 7.5       |
| 120 | 3.6 | 19.17       | 16.77     | 0.87 | 2.284    | 8.4  | 26.97        | 135.0 | 2.6       |
| 120 | 4.4 | 19.27       | 16.77     | 0.87 | 2.234    | 8.6  | 26.89        | 132.2 | 3.6       |
| 120 | 5.0 | 19.37       | 16.77     | 0.87 | 2.204    | 8.8  | 26.89        | 130.8 | 4.6       |
| 120 | 5.6 | 19.47       | 16.87     | 0.87 | 2.184    | 8.9  | 26.92        | 129.6 | 5.6       |
| 120 | 5.8 | 19.47       | 16.87     | 0.87 | 2.184    | 8.9  | 26.92        | 129.3 | 5.9       |
| 120 | 6.1 | 19.47       | 16.87     | 0.87 | 2.164    | 9.0  | 26.86        | 128.8 | 6.5       |
| 120 | 6.6 | 19.47       | 16.87     | 0.87 | 2.154    | 9.0  | 26.82        | 128.1 | 7.5       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 5.6, Rated CFM 760, Minimum CFM 608, Maximum CFM 836.

**Table 56. Heating capacities 2 tons (gross) - EXHF024**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 5.6 | 15.87         | 11.11        | 1.395    | 3.3 | 21.0 | 11.2      |
| 25  | 5.8 | 15.87         | 11.11        | 1.395    | 3.3 | 21.2 | 11.9      |
| 25  | 6.1 | 15.97         | 11.21        | 1.395    | 3.4 | 21.3 | 13.0      |
| 25  | 6.6 | 16.07         | 11.31        | 1.395    | 3.4 | 21.6 | 14.9      |
| 32  | 3.6 | 16.97         | 12.17        | 1.405    | 3.5 | 25.2 | 5.0       |
| 32  | 4.4 | 17.37         | 12.57        | 1.405    | 3.6 | 26.3 | 7.1       |
| 32  | 5.0 | 17.57         | 12.74        | 1.415    | 3.6 | 26.9 | 8.9       |
| 32  | 5.6 | 17.77         | 12.94        | 1.415    | 3.7 | 27.4 | 10.8      |
| 32  | 5.8 | 17.87         | 13.04        | 1.415    | 3.7 | 27.5 | 11.5      |
| 32  | 6.1 | 17.87         | 13.04        | 1.415    | 3.7 | 27.7 | 12.6      |
| 32  | 6.6 | 17.97         | 13.14        | 1.415    | 3.7 | 28.0 | 14.4      |
| 45  | 3.6 | 21.07         | 16.07        | 1.465    | 4.2 | 36.1 | 3.3       |
| 45  | 4.4 | 21.57         | 16.57        | 1.465    | 4.3 | 37.5 | 4.7       |
| 45  | 5.0 | 21.87         | 16.84        | 1.475    | 4.3 | 38.3 | 5.9       |
| 45  | 5.6 | 22.07         | 17.04        | 1.475    | 4.4 | 38.9 | 7.3       |
| 45  | 5.8 | 22.07         | 17.04        | 1.475    | 4.4 | 39.1 | 7.7       |
| 45  | 6.1 | 22.17         | 17.14        | 1.475    | 4.4 | 39.4 | 8.4       |
| 45  | 6.6 | 22.27         | 17.24        | 1.475    | 4.4 | 39.8 | 9.7       |
| 55  | 3.6 | 23.97         | 18.87        | 1.495    | 4.7 | 44.5 | 3.2       |
| 55  | 4.4 | 24.47         | 19.33        | 1.505    | 4.8 | 46.2 | 4.6       |
| 55  | 5.0 | 24.87         | 19.73        | 1.505    | 4.8 | 47.1 | 5.7       |
| 55  | 5.6 | 25.17         | 20.00        | 1.515    | 4.9 | 47.9 | 7.0       |
| 55  | 5.8 | 25.17         | 19.97        | 1.525    | 4.8 | 48.1 | 7.4       |
| 55  | 6.1 | 25.37         | 20.17        | 1.525    | 4.9 | 48.4 | 8.1       |
| 55  | 6.6 | 25.47         | 20.27        | 1.525    | 4.9 | 48.9 | 9.3       |
| 68  | 3.6 | 28.47         | 22.99        | 1.605    | 5.2 | 55.2 | 3.0       |
| 68  | 4.4 | 29.17         | 23.66        | 1.615    | 5.3 | 57.2 | 4.3       |
| 68  | 5.0 | 29.57         | 24.02        | 1.625    | 5.3 | 58.4 | 5.4       |
| 68  | 5.6 | 29.87         | 24.29        | 1.635    | 5.4 | 59.3 | 6.6       |



## Performance Data

**Table 56. Heating capacities 2 tons (gross) - EXHF024 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 68  | 5.8 | 29.97         | 24.39        | 1.635    | 5.4 | 59.6 | 7.0       |
| 68  | 6.1 | 30.17         | 24.59        | 1.635    | 5.4 | 59.9 | 7.6       |
| 68  | 6.6 | 30.17         | 24.59        | 1.635    | 5.4 | 60.5 | 8.8       |
| 75  | 3.6 | 30.67         | 25.02        | 1.655    | 5.4 | 61.1 | 2.9       |
| 75  | 4.4 | 31.37         | 25.69        | 1.665    | 5.5 | 63.3 | 4.2       |
| 75  | 5.0 | 31.87         | 26.15        | 1.675    | 5.6 | 64.5 | 5.2       |
| 75  | 5.6 | 32.27         | 26.52        | 1.685    | 5.6 | 65.5 | 6.4       |
| 75  | 5.8 | 32.27         | 26.52        | 1.685    | 5.6 | 65.9 | 6.8       |
| 75  | 6.1 | 32.47         | 26.68        | 1.695    | 5.6 | 66.3 | 7.4       |
| 75  | 6.6 | 32.57         | 26.78        | 1.695    | 5.6 | 66.9 | 8.5       |
| 77  | 3.6 | 33.57         | 27.72        | 1.715    | 5.7 | 61.6 | 2.8       |
| 77  | 4.4 | 34.27         | 28.35        | 1.735    | 5.8 | 64.1 | 4.0       |
| 77  | 5.0 | 34.77         | 28.81        | 1.745    | 5.8 | 65.5 | 5.0       |
| 77  | 5.6 | 35.17         | 29.18        | 1.755    | 5.9 | 66.6 | 6.2       |
| 77  | 5.8 | 35.17         | 29.18        | 1.755    | 5.9 | 66.9 | 6.6       |
| 77  | 6.1 | 35.27         | 29.25        | 1.765    | 5.9 | 67.4 | 7.2       |
| 77  | 6.6 | 35.47         | 29.45        | 1.765    | 5.9 | 68.1 | 8.3       |
| 86  | 3.6 | 34.17         | 28.28        | 1.725    | 5.8 | 70.3 | 2.8       |
| 86  | 4.4 | 34.97         | 29.01        | 1.745    | 5.9 | 72.8 | 4.0       |
| 86  | 5.0 | 35.37         | 29.38        | 1.755    | 5.9 | 74.2 | 5.0       |
| 86  | 5.6 | 35.77         | 29.75        | 1.765    | 5.9 | 75.4 | 6.1       |
| 86  | 5.8 | 35.77         | 29.71        | 1.775    | 5.9 | 75.8 | 6.5       |
| 86  | 6.1 | 35.87         | 29.81        | 1.775    | 5.9 | 76.2 | 7.1       |
| 86  | 6.6 | 36.07         | 30.01        | 1.775    | 6.0 | 76.9 | 8.2       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 5.6, Rated CFM 760, Minimum CFM 608, Maximum CFM 836.

**Table 57. Fan Correction 2 tons — EXHF024**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 608          | 0.960            | 0.885             | 1.001              | 0.974            | 1.085              |
| 684          | 0.981            | 0.942             | 1.000              | 0.989            | 1.036              |
| 760          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 836          | 1.017            | 1.057             | 0.999              | 1.005            | 0.967              |

**Table 58. Correction factors for variation in entering air temperature 2 tons, EXHF024**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.931               | 1.010                     | 0.997                                     | 1.066 | 1.133 | *     | *     | 53.0                            | 1.034               | 0.842                  |
| 56.3                            | 0.930               | 1.010                     | 0.805                                     | 1.016 | 1.133 | *     | *     | 58.0                            | 1.025               | 0.896                  |
| 60.3                            | 0.929               | 1.010                     | 0.611                                     | 0.838 | 1.057 | *     | *     | 63.0                            | 1.013               | 0.947                  |
| 63.2                            | 0.957               | 1.012                     | 0.459                                     | 0.696 | 0.923 | 1.135 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.535 | 0.771 | 1.000 | 1.206 | 73.0                            | 0.989               | 1.055                  |
| 72.1                            | 1.083               | 0.985                     | —   | —     | 0.456 | 0.682 | 0.915 | 78.0                            | 0.971               | 1.112                  |

**Table 58. Correction factors for variation in entering air temperature 2 tons, EXHF024 (continued)**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |      |      |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|------|------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6 | 75.6 | 80.6  | 85.6  |                                 |                     |                        |
| 77.1                            | 1.166               | 0.984                     | —   | —    | —    | 0.425 | 0.665 | 83.0                            | 0.960               | 1.172                  |

Note: \* = Sensible equals total capacity

**Table 59. Cooling capacities 2 tons (gross) - EXVG024**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------------|--------------|-------|-----------|
| 45  | 3.9 | 28.8        | 21.1      | 0.73 | 0.91           | 31.9         | 61.4  | 1.7       |
| 45  | 4.8 | 28.8        | 21.1      | 0.73 | 0.89           | 31.8         | 58.3  | 2.5       |
| 45  | 5.4 | 28.8        | 21.1      | 0.73 | 0.89           | 31.8         | 56.8  | 3.1       |
| 45  | 6.0 | 28.8        | 21.1      | 0.73 | 0.88           | 31.8         | 55.6  | 3.7       |
| 45  | 6.3 | 28.8        | 21.1      | 0.73 | 0.88           | 31.8         | 55.1  | 4.1       |
| 45  | 6.6 | 28.8        | 21.1      | 0.73 | 0.88           | 31.8         | 54.6  | 4.4       |
| 45  | 7.2 | 28.8        | 21.1      | 0.73 | 0.88           | 31.8         | 53.8  | 5.2       |
| 55  | 3.9 | 28.2        | 20.7      | 0.73 | 0.99           | 31.6         | 71.2  | 1.6       |
| 55  | 4.8 | 28.2        | 20.7      | 0.73 | 0.96           | 31.5         | 68.1  | 2.3       |
| 55  | 5.4 | 28.2        | 20.7      | 0.73 | 0.95           | 31.4         | 66.6  | 2.9       |
| 55  | 6.0 | 28.2        | 20.7      | 0.73 | 0.94           | 31.4         | 65.5  | 3.5       |
| 55  | 6.3 | 28.3        | 20.7      | 0.73 | 0.94           | 31.5         | 65.0  | 3.8       |
| 55  | 6.6 | 28.3        | 20.7      | 0.73 | 0.94           | 31.5         | 64.5  | 4.1       |
| 55  | 7.2 | 28.3        | 20.7      | 0.73 | 0.93           | 31.5         | 63.8  | 4.8       |
| 68  | 3.9 | 27.2        | 20.4      | 0.75 | 1.15           | 31.1         | 83.9  | 1.5       |
| 68  | 4.8 | 27.2        | 20.4      | 0.75 | 1.12           | 31.0         | 80.9  | 2.2       |
| 68  | 5.4 | 27.3        | 20.4      | 0.75 | 1.10           | 31.1         | 79.5  | 2.7       |
| 68  | 6.0 | 27.3        | 20.4      | 0.75 | 1.09           | 31.0         | 78.3  | 3.2       |
| 68  | 6.3 | 27.3        | 20.4      | 0.75 | 1.08           | 31.0         | 77.8  | 3.5       |
| 68  | 6.6 | 27.3        | 20.4      | 0.75 | 1.08           | 31.0         | 77.4  | 3.8       |
| 68  | 7.2 | 27.3        | 20.4      | 0.75 | 1.07           | 30.9         | 76.6  | 4.5       |
| 75  | 3.9 | 26.5        | 20.2      | 0.76 | 1.26           | 30.8         | 90.8  | 1.5       |
| 75  | 4.8 | 26.6        | 20.2      | 0.76 | 1.22           | 30.8         | 87.8  | 2.1       |
| 75  | 5.4 | 26.6        | 20.2      | 0.76 | 1.21           | 30.7         | 86.4  | 2.6       |
| 75  | 6.0 | 26.7        | 20.3      | 0.76 | 1.19           | 30.8         | 85.3  | 3.1       |
| 75  | 6.3 | 26.7        | 20.3      | 0.76 | 1.19           | 30.7         | 84.7  | 3.4       |
| 75  | 6.6 | 26.7        | 20.3      | 0.76 | 1.18           | 30.7         | 84.3  | 3.7       |
| 75  | 7.2 | 26.7        | 20.3      | 0.76 | 1.17           | 30.7         | 83.5  | 4.3       |
| 86  | 3.9 | 25.4        | 19.8      | 0.78 | 1.46           | 30.4         | 101.6 | 1.5       |
| 86  | 4.8 | 25.5        | 19.9      | 0.78 | 1.42           | 30.3         | 98.6  | 2.1       |
| 86  | 5.4 | 25.5        | 19.9      | 0.78 | 1.40           | 30.3         | 97.2  | 2.5       |
| 86  | 6.0 | 25.5        | 19.9      | 0.78 | 1.38           | 30.2         | 96.1  | 3.0       |
| 86  | 6.3 | 25.6        | 20.0      | 0.78 | 1.38           | 30.3         | 95.6  | 3.3       |
| 86  | 6.6 | 25.6        | 20.0      | 0.78 | 1.37           | 30.3         | 95.2  | 3.6       |
| 86  | 7.2 | 25.6        | 20.0      | 0.78 | 1.36           | 30.2         | 94.4  | 4.2       |
| 95  | 3.9 | 24.3        | 19.4      | 0.80 | 1.64           | 29.9         | 110.3 | 1.5       |



## Performance Data

**Table 59. Cooling capacities 2 tons (gross) - EXVG024 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 95  | 4.8 | 24.4        | 19.5      | 0.80 | 1.60        | 29.8         | 107.4 | 2.0       |
| 95  | 5.4 | 24.5        | 19.5      | 0.80 | 1.58        | 29.9         | 106.1 | 2.5       |
| 95  | 6.0 | 24.5        | 19.5      | 0.80 | 1.56        | 29.8         | 104.9 | 3.0       |
| 95  | 6.3 | 24.5        | 19.5      | 0.80 | 1.55        | 29.8         | 104.5 | 3.2       |
| 95  | 6.6 | 24.6        | 19.6      | 0.80 | 1.55        | 29.9         | 104.1 | 3.5       |
| 95  | 7.2 | 24.6        | 19.6      | 0.80 | 1.53        | 29.8         | 103.3 | 4.1       |
| 105 | 3.9 | 23.0        | 18.8      | 0.82 | 1.85        | 29.3         | 120.0 | 1.4       |
| 105 | 4.8 | 23.1        | 18.9      | 0.82 | 1.81        | 29.3         | 117.2 | 2.0       |
| 105 | 5.4 | 23.2        | 19.0      | 0.82 | 1.79        | 29.3         | 115.9 | 2.4       |
| 105 | 6.0 | 23.3        | 19.0      | 0.82 | 1.77        | 29.3         | 114.8 | 2.9       |
| 105 | 6.3 | 23.3        | 19.0      | 0.82 | 1.77        | 29.3         | 114.3 | 3.2       |
| 105 | 6.6 | 23.3        | 19.0      | 0.82 | 1.76        | 29.3         | 113.9 | 3.4       |
| 105 | 7.2 | 23.3        | 19.0      | 0.82 | 1.75        | 29.3         | 113.1 | 4.0       |
| 115 | 3.9 | 21.6        | 18.1      | 0.84 | 2.07        | 28.7         | 129.7 | 1.3       |
| 115 | 4.8 | 21.8        | 18.3      | 0.84 | 2.03        | 28.7         | 127.0 | 1.9       |
| 115 | 5.4 | 21.8        | 18.3      | 0.84 | 2.01        | 28.7         | 125.6 | 2.3       |
| 115 | 6.0 | 21.9        | 18.4      | 0.84 | 1.99        | 28.7         | 124.6 | 2.8       |
| 115 | 6.3 | 21.9        | 18.4      | 0.84 | 1.99        | 28.7         | 124.1 | 3.0       |
| 115 | 6.6 | 21.9        | 18.4      | 0.84 | 1.98        | 28.7         | 123.7 | 3.3       |
| 115 | 7.2 | 21.9        | 18.4      | 0.84 | 1.97        | 28.6         | 122.9 | 3.8       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 6; Minimum CFM 608; Rated CFM 760; Maximum CFM 912.

**Table 60. Heating capacities 2 tons (gross) - EXVG024**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 3.9 | 15.3          | 10.7         | 1.35        | 19.5 | 2.2       |
| 25  | 4.8 | 16.0          | 11.4         | 1.36        | 20.3 | 3.1       |
| 25  | 5.4 | 16.3          | 11.7         | 1.36        | 20.7 | 3.8       |
| 25  | 6.0 | 16.6          | 11.9         | 1.36        | 21.0 | 4.6       |
| 25  | 6.3 | 16.7          | 12.0         | 1.36        | 21.2 | 5.0       |
| 25  | 6.6 | 16.8          | 12.1         | 1.36        | 21.3 | 5.4       |
| 25  | 7.2 | 17.0          | 12.3         | 1.36        | 21.6 | 6.2       |
| 32  | 3.9 | 17.0          | 12.3         | 1.38        | 25.7 | 2.0       |
| 32  | 4.8 | 17.6          | 12.9         | 1.39        | 26.6 | 2.9       |
| 32  | 5.4 | 17.9          | 13.2         | 1.39        | 27.1 | 3.5       |
| 32  | 6.0 | 18.2          | 13.5         | 1.39        | 27.5 | 4.2       |
| 32  | 6.3 | 18.3          | 13.5         | 1.39        | 27.7 | 4.6       |
| 32  | 6.6 | 18.4          | 13.6         | 1.39        | 27.9 | 5.0       |
| 32  | 7.2 | 18.6          | 13.8         | 1.39        | 28.2 | 5.8       |
| 45  | 3.9 | 22.3          | 17.4         | 1.43        | 36.1 | 1.7       |
| 45  | 4.8 | 22.9          | 18.0         | 1.44        | 37.5 | 2.5       |

**Table 60. Heating capacities 2 tons (gross) - EXVG024 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 45  | 5.4 | 23.3          | 18.4         | 1.45        | 38.2 | 3.1       |
| 45  | 6.0 | 23.5          | 18.5         | 1.45        | 38.8 | 3.7       |
| 45  | 6.3 | 23.6          | 18.6         | 1.46        | 39.1 | 4.1       |
| 45  | 6.6 | 23.7          | 18.7         | 1.46        | 39.3 | 4.4       |
| 45  | 7.2 | 23.9          | 18.9         | 1.46        | 39.8 | 5.2       |
| 55  | 3.9 | 25.8          | 20.7         | 1.49        | 44.4 | 1.6       |
| 55  | 4.8 | 26.4          | 21.3         | 1.50        | 46.1 | 2.3       |
| 55  | 5.4 | 26.7          | 21.6         | 1.51        | 47.0 | 2.9       |
| 55  | 6.0 | 27.0          | 21.8         | 1.51        | 47.7 | 3.5       |
| 55  | 6.3 | 27.1          | 21.9         | 1.52        | 48.0 | 3.8       |
| 55  | 6.6 | 27.2          | 22.0         | 1.52        | 48.3 | 4.1       |
| 55  | 7.2 | 27.4          | 22.2         | 1.52        | 48.8 | 4.8       |
| 68  | 3.9 | 29.9          | 24.6         | 1.57        | 55.4 | 1.5       |
| 68  | 4.8 | 30.5          | 25.1         | 1.58        | 57.5 | 2.2       |
| 68  | 5.4 | 30.9          | 25.5         | 1.59        | 58.6 | 2.7       |
| 68  | 6.0 | 31.1          | 25.6         | 1.60        | 59.5 | 3.2       |
| 68  | 6.3 | 31.2          | 25.7         | 1.60        | 59.8 | 3.5       |
| 68  | 6.6 | 31.4          | 25.9         | 1.61        | 60.2 | 3.8       |
| 68  | 7.2 | 31.5          | 26.0         | 1.61        | 60.8 | 4.5       |
| 75  | 3.9 | 32.4          | 26.9         | 1.62        | 61.2 | 1.5       |
| 75  | 4.8 | 33.1          | 27.5         | 1.64        | 63.5 | 2.1       |
| 75  | 5.4 | 33.4          | 27.8         | 1.65        | 64.7 | 2.6       |
| 75  | 6.0 | 33.6          | 28.0         | 1.65        | 65.7 | 3.1       |
| 75  | 6.3 | 33.8          | 28.1         | 1.66        | 66.1 | 3.4       |
| 75  | 6.6 | 33.9          | 28.2         | 1.66        | 66.5 | 3.7       |
| 75  | 7.2 | 34.0          | 28.3         | 1.67        | 67.1 | 4.3       |
| 86  | 3.9 | 35.7          | 29.9         | 1.70        | 70.7 | 1.5       |
| 86  | 4.8 | 36.4          | 30.5         | 1.72        | 73.3 | 2.1       |
| 86  | 5.4 | 36.7          | 30.8         | 1.74        | 74.6 | 2.5       |
| 86  | 6.0 | 37.0          | 31.0         | 1.75        | 75.7 | 3.0       |
| 86  | 6.3 | 37.1          | 31.1         | 1.75        | 76.1 | 3.3       |
| 86  | 6.6 | 37.2          | 31.2         | 1.76        | 76.5 | 3.6       |
| 86  | 7.2 | 37.4          | 31.4         | 1.76        | 77.3 | 4.2       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 6; Minimum CFM 608; Rated CFM 760; Maximum CFM 912.

**Table 61. Fan Correction 2 tons EXVG024**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 608          | 0.960            | 0.889             | 0.998               | 0.979            | 1.099               |
| 646          | 0.971            | 0.918             | 0.999               | 0.986            | 1.071               |
| 684          | 0.982            | 0.946             | 0.999               | 0.991            | 1.045               |



## Performance Data

**Table 61. Fan Correction 2 tons EXVG024 (continued)**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 722          | 0.991            | 0.973             | 1.000               | 0.996            | 1.021               |
| 760          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 836          | 1.015            | 1.052             | 1.001               | 1.007            | 0.964               |
| 874          | 1.022            | 1.078             | 1.001               | 1.010            | 0.948               |
| 912          | 1.028            | 1.103             | 1.002               | 1.012            | 0.933               |

**Table 62. Correction factors for variation in entering air temperature 2 ton, EXVG024**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.870               | 0.996                     | 0.961                                     | 1.050 | 1.121 | *     | *     | 53.0                            | 1.037               | 0.837                  |
| 56.3                            | 0.882               | 0.996                     | 0.816                                     | 0.965 | 1.085 | *     | *     | 58.0                            | 1.026               | 0.891                  |
| 60.3                            | 0.903               | 0.997                     | 0.668                                     | 0.857 | 1.012 | 1.140 | *     | 63.0                            | 1.014               | 0.944                  |
| 63.2                            | 0.950               | 0.998                     | 0.533                                     | 0.752 | 0.932 | 1.082 | 1.209 | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.621 | 0.827 | 1.000 | 1.147 | 73.0                            | 0.985               | 1.057                  |
| 72.1                            | 1.109               | 1.008                     | —   | —     | 0.568 | 0.784 | 0.969 | 78.0                            | 0.969               | 1.115                  |
| 77.1                            | 1.208               | 1.018                     | —   | —     | —     | —     | 0.773 | 83.0                            | 0.953               | 1.174                  |

Note: \* = Sensible equals total capacity

**Table 63. Cooling capacities 2 tons (gross) - DXHF024**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|--------------|------|-----------|
| 45  | 3.6 | 31.8        | 20.7      | 0.65 | 0.91     | 34.9         | 64.4 | 3.7       |
| 45  | 4.5 | 31.9        | 20.8      | 0.65 | 0.86     | 34.8         | 60.5 | 5.4       |
| 45  | 5.0 | 31.9        | 20.8      | 0.65 | 0.84     | 34.8         | 58.9 | 6.5       |
| 45  | 5.6 | 32.0        | 20.8      | 0.65 | 0.83     | 34.8         | 57.4 | 8.0       |
| 45  | 5.9 | 32.0        | 20.8      | 0.65 | 0.82     | 34.8         | 56.8 | 8.8       |
| 45  | 6.2 | 32.0        | 20.8      | 0.65 | 0.81     | 34.8         | 56.2 | 9.6       |
| 45  | 6.7 | 32.0        | 20.8      | 0.65 | 0.80     | 34.7         | 55.4 | 11.0      |
| 55  | 3.6 | 30.9        | 20.5      | 0.66 | 1.06     | 34.5         | 74.2 | 3.3       |
| 55  | 4.5 | 31.0        | 20.6      | 0.66 | 1.02     | 34.5         | 70.3 | 4.9       |
| 55  | 5.0 | 31.0        | 20.6      | 0.66 | 0.99     | 34.4         | 68.8 | 5.8       |
| 55  | 5.6 | 31.1        | 20.7      | 0.67 | 0.98     | 34.4         | 67.3 | 7.1       |
| 55  | 5.9 | 31.1        | 20.7      | 0.67 | 0.97     | 34.4         | 66.7 | 7.8       |
| 55  | 6.2 | 31.1        | 20.7      | 0.67 | 0.96     | 34.4         | 66.1 | 8.6       |
| 55  | 6.7 | 31.1        | 20.7      | 0.67 | 0.95     | 34.3         | 65.2 | 9.8       |
| 65  | 3.6 | 30.0        | 20.4      | 0.68 | 1.19     | 34.1         | 83.9 | 3.0       |
| 65  | 4.5 | 30.1        | 20.5      | 0.68 | 1.15     | 34.0         | 80.1 | 4.5       |
| 65  | 5.0 | 30.2        | 20.6      | 0.68 | 1.13     | 34.0         | 78.6 | 5.4       |
| 65  | 5.6 | 30.2        | 20.6      | 0.68 | 1.11     | 34.0         | 77.1 | 6.6       |
| 65  | 5.9 | 30.2        | 20.6      | 0.68 | 1.10     | 34.0         | 76.5 | 7.2       |
| 65  | 6.2 | 30.2        | 20.6      | 0.68 | 1.09     | 33.9         | 75.9 | 7.9       |
| 65  | 6.7 | 30.3        | 20.6      | 0.68 | 1.08     | 34.0         | 75.1 | 9.1       |
| 75  | 3.6 | 28.9        | 20.1      | 0.70 | 1.33     | 33.4         | 93.6 | 2.9       |
| 75  | 4.5 | 29.0        | 20.1      | 0.69 | 1.28     | 33.4         | 89.8 | 4.2       |



**Table 63. Cooling capacities 2 tons (gross) - DXHF024 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|--------------|-------|-----------|
| 75  | 5.0 | 29.1        | 20.2      | 0.69 | 1.26     | 33.4         | 88.4  | 5.1       |
| 75  | 5.6 | 29.1        | 20.2      | 0.69 | 1.24     | 33.3         | 86.9  | 6.2       |
| 75  | 5.9 | 29.1        | 20.2      | 0.69 | 1.24     | 33.3         | 86.3  | 6.8       |
| 75  | 6.2 | 29.1        | 20.2      | 0.69 | 1.23     | 33.3         | 85.7  | 7.5       |
| 75  | 6.7 | 29.2        | 20.3      | 0.70 | 1.22     | 33.4         | 85.0  | 8.6       |
| 85  | 3.6 | 27.6        | 19.5      | 0.71 | 1.47     | 32.6         | 103.1 | 2.7       |
| 85  | 4.5 | 27.7        | 19.6      | 0.71 | 1.43     | 32.6         | 99.5  | 4.1       |
| 85  | 5.0 | 27.7        | 19.6      | 0.71 | 1.41     | 32.5         | 98.0  | 4.9       |
| 85  | 5.6 | 27.7        | 19.6      | 0.71 | 1.39     | 32.4         | 96.6  | 6.0       |
| 85  | 5.9 | 27.8        | 19.7      | 0.71 | 1.38     | 32.5         | 96.0  | 6.6       |
| 85  | 6.2 | 27.8        | 19.7      | 0.71 | 1.38     | 32.5         | 95.5  | 7.2       |
| 85  | 6.7 | 27.8        | 19.7      | 0.71 | 1.37     | 32.5         | 94.7  | 8.2       |
| 95  | 3.6 | 26.1        | 18.9      | 0.72 | 1.64     | 31.7         | 112.6 | 2.7       |
| 95  | 4.5 | 26.2        | 19.0      | 0.73 | 1.60     | 31.6         | 109.0 | 4.0       |
| 95  | 5.0 | 26.2        | 19.0      | 0.73 | 1.57     | 31.6         | 107.6 | 4.8       |
| 95  | 5.6 | 26.3        | 19.0      | 0.72 | 1.56     | 31.6         | 106.3 | 5.8       |
| 95  | 5.9 | 26.3        | 19.0      | 0.72 | 1.55     | 31.6         | 105.7 | 6.4       |
| 95  | 6.2 | 26.3        | 19.0      | 0.72 | 1.54     | 31.6         | 105.2 | 7.0       |
| 95  | 6.7 | 26.3        | 19.0      | 0.72 | 1.53     | 31.5         | 104.4 | 8.0       |
| 105 | 3.6 | 24.6        | 18.4      | 0.75 | 1.83     | 30.8         | 122.1 | 2.6       |
| 105 | 4.5 | 24.7        | 18.4      | 0.74 | 1.78     | 30.8         | 118.7 | 3.9       |
| 105 | 5.0 | 24.8        | 18.5      | 0.75 | 1.76     | 30.8         | 117.3 | 4.7       |
| 105 | 5.6 | 24.8        | 18.5      | 0.75 | 1.74     | 30.7         | 116.0 | 5.8       |
| 105 | 5.9 | 24.8        | 18.5      | 0.75 | 1.74     | 30.7         | 115.4 | 6.3       |
| 105 | 6.2 | 24.8        | 18.5      | 0.75 | 1.73     | 30.7         | 114.9 | 6.9       |
| 105 | 6.7 | 24.8        | 18.5      | 0.75 | 1.72     | 30.7         | 114.2 | 7.9       |
| 115 | 3.6 | 23.1        | 17.8      | 0.77 | 2.04     | 30.1         | 131.7 | 2.6       |
| 115 | 4.5 | 23.2        | 17.9      | 0.77 | 1.99     | 30.0         | 128.3 | 3.9       |
| 115 | 5.0 | 23.3        | 18.0      | 0.77 | 1.97     | 30.0         | 127.0 | 4.7       |
| 115 | 5.6 | 23.3        | 18.0      | 0.77 | 1.96     | 30.0         | 125.7 | 5.7       |
| 115 | 5.9 | 23.3        | 18.0      | 0.77 | 1.95     | 30.0         | 125.2 | 6.3       |
| 115 | 6.2 | 23.3        | 18.0      | 0.77 | 1.94     | 29.9         | 124.6 | 6.8       |
| 115 | 6.7 | 23.4        | 18.0      | 0.77 | 1.93     | 30.0         | 124.0 | 7.8       |
| 120 | 3.6 | 22.3        | 17.5      | 0.78 | 2.16     | 29.7         | 136.5 | 2.6       |
| 120 | 4.5 | 22.4        | 17.6      | 0.79 | 2.12     | 29.6         | 133.2 | 3.9       |
| 120 | 5.0 | 22.4        | 17.6      | 0.79 | 2.10     | 29.6         | 131.8 | 4.7       |
| 120 | 5.6 | 22.4        | 17.6      | 0.79 | 2.08     | 29.5         | 130.5 | 5.7       |
| 120 | 5.9 | 22.5        | 17.7      | 0.79 | 2.07     | 29.6         | 130.0 | 6.3       |
| 120 | 6.2 | 22.5        | 17.7      | 0.79 | 2.07     | 29.5         | 129.5 | 6.8       |
| 120 | 6.7 | 22.5        | 17.7      | 0.79 | 2.05     | 29.5         | 128.8 | 7.8       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 5.6, Rated CFM 760, Minimum CFM 608, Maximum CFM 836.



## Performance Data

Table 64. Heating capacities 2 tons (gross) - DXHF024

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|------|-----------|
| 25  | 5.0 | 14.9          | 10.6         | 1.27     | 20.8 | 9.5       |
| 25  | 5.6 | 15.0          | 10.7         | 1.27     | 21.2 | 11.6      |
| 25  | 5.9 | 15.0          | 10.7         | 1.27     | 21.4 | 12.7      |
| 25  | 6.2 | 15.0          | 10.7         | 1.27     | 21.5 | 13.8      |
| 25  | 6.7 | 14.9          | 10.6         | 1.27     | 21.8 | 15.8      |
| 35  | 3.6 | 18.9          | 14.2         | 1.36     | 27.1 | 4.3       |
| 35  | 4.5 | 19.3          | 14.6         | 1.37     | 28.5 | 6.3       |
| 35  | 5.0 | 19.5          | 14.8         | 1.38     | 29.1 | 7.6       |
| 35  | 5.6 | 19.6          | 14.9         | 1.38     | 29.7 | 9.3       |
| 35  | 5.9 | 19.7          | 15.0         | 1.38     | 29.9 | 10.2      |
| 35  | 6.2 | 19.7          | 15.0         | 1.38     | 30.2 | 11.1      |
| 35  | 6.7 | 19.8          | 15.1         | 1.38     | 30.5 | 12.8      |
| 45  | 3.6 | 22.7          | 17.7         | 1.46     | 35.2 | 3.7       |
| 45  | 4.5 | 23.3          | 18.3         | 1.47     | 36.9 | 5.4       |
| 45  | 5.0 | 23.6          | 18.6         | 1.48     | 37.6 | 6.5       |
| 45  | 5.6 | 23.8          | 18.7         | 1.48     | 38.3 | 8.0       |
| 45  | 5.9 | 23.9          | 18.8         | 1.48     | 38.6 | 8.8       |
| 45  | 6.2 | 24.0          | 18.9         | 1.49     | 38.9 | 9.6       |
| 45  | 6.7 | 24.1          | 19.0         | 1.49     | 39.3 | 11.0      |
| 55  | 3.6 | 26.2          | 20.9         | 1.54     | 43.4 | 3.3       |
| 55  | 4.5 | 26.9          | 21.6         | 1.56     | 45.4 | 4.9       |
| 55  | 5.0 | 27.3          | 21.9         | 1.57     | 46.2 | 5.8       |
| 55  | 5.6 | 27.6          | 22.2         | 1.58     | 47.1 | 7.1       |
| 55  | 5.9 | 27.7          | 22.3         | 1.58     | 47.4 | 7.8       |
| 55  | 6.2 | 27.9          | 22.5         | 1.58     | 47.7 | 8.6       |
| 55  | 6.7 | 28.0          | 22.6         | 1.59     | 48.3 | 9.8       |
| 65  | 3.6 | 29.5          | 24.0         | 1.62     | 51.7 | 3.0       |
| 65  | 4.5 | 30.3          | 24.7         | 1.65     | 54.0 | 4.5       |
| 65  | 5.0 | 30.8          | 25.1         | 1.66     | 55.0 | 5.4       |
| 65  | 5.6 | 31.2          | 25.5         | 1.67     | 55.9 | 6.6       |
| 65  | 5.9 | 31.3          | 25.6         | 1.67     | 56.3 | 7.2       |
| 65  | 6.2 | 31.5          | 25.8         | 1.67     | 56.7 | 7.9       |
| 65  | 6.7 | 31.7          | 26.0         | 1.68     | 57.2 | 9.1       |
| 75  | 3.6 | 32.7          | 26.9         | 1.71     | 60.1 | 2.9       |
| 75  | 4.5 | 33.6          | 27.7         | 1.73     | 62.7 | 4.2       |
| 75  | 5.0 | 34.2          | 28.2         | 1.74     | 63.7 | 5.1       |
| 75  | 5.6 | 34.6          | 28.6         | 1.75     | 64.8 | 6.2       |
| 75  | 5.9 | 34.7          | 28.7         | 1.76     | 65.3 | 6.8       |
| 75  | 6.2 | 34.9          | 28.9         | 1.76     | 65.7 | 7.5       |
| 75  | 6.7 | 35.2          | 29.2         | 1.77     | 66.3 | 8.6       |
| 85  | 3.6 | 35.9          | 29.8         | 1.79     | 68.4 | 2.7       |
| 85  | 4.5 | 36.9          | 30.7         | 1.82     | 71.4 | 4.1       |
| 85  | 5.0 | 37.5          | 31.2         | 1.83     | 72.5 | 4.9       |

**Table 64. Heating capacities 2 tons (gross) - DXHF024 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|------|-----------|
| 85  | 5.6 | 37.9          | 31.6         | 1.84     | 73.7 | 6.0       |
| 85  | 5.9 | 38.1          | 31.8         | 1.85     | 74.2 | 6.6       |
| 85  | 6.2 | 38.3          | 32.0         | 1.85     | 74.7 | 7.2       |
| 85  | 6.7 | 38.6          | 32.3         | 1.86     | 75.4 | 8.2       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 5.6, Rated CFM 760, Minimum CFM 608, Maximum CFM 836.

**Table 65. Fan Correction 2 tons DXHF024**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 608          | 0.954            | 0.887             | 0.997              | 0.973            | 1.099              |
| 684          | 0.979            | 0.945             | 0.999              | 0.989            | 1.044              |
| 760          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 836          | 1.018            | 1.056             | 1.001              | 1.009            | 0.965              |

**Table 66. Correction factors for variation in entering air temperature 2 tons, DXHF024**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  | 90.0  |                                 |                     |                        |
| 50.0                            | 0.912               | 0.990                     | 1.024                                     | 1.118 | *     | *     | *     | *     | 55.0                            | 1.058               | 0.868                  |
| 55.0                            | 0.897               | 0.988                     | 0.899                                     | 1.057 | 1.177 | *     | *     | *     | 58.0                            | 1.046               | 0.893                  |
| 60.0                            | 0.920               | 0.991                     | 0.664                                     | 0.897 | 1.077 | 1.222 | *     | *     | 61.0                            | 1.035               | 0.919                  |
| 65.0                            | 0.973               | 0.997                     | 0.327                                     | 0.638 | 0.882 | 1.080 | 1.244 | *     | 64.0                            | 1.023               | 0.946                  |
| 67.0                            | 1.000               | 1.000                     | —   | 0.511 | 0.781 | 1.000 | 1.182 | *     | 67.0                            | 1.012               | 0.972                  |
| 70.0                            | 1.046               | 1.004                     | —   | 0.298 | 0.607 | 0.858 | 1.068 | 1.246 | 70.0                            | 1.000               | 1.000                  |
| 75.0                            | 1.134               | 1.012                     | —   | —     | 0.268 | 0.573 | 0.827 | 1.044 | 73.0                            | 0.989               | 1.028                  |
| 78.0                            | 1.189               | 1.016                     | —   | —     | —     | 0.378 | 0.658 | 0.898 | 76.0                            | 0.977               | 1.057                  |

**Note:** \* = Sensible equals total capacity

**Table 67. Cooling capacities 2 tons (gross) - DXVG024**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 3.9 | 27.9        | 22.1      | 0.79 | 0.93        | 31.1         | 60.9 | 1.7       |
| 45  | 4.8 | 28.0        | 22.2      | 0.79 | 0.89        | 31.0         | 57.9 | 2.5       |
| 45  | 5.4 | 28.0        | 22.2      | 0.79 | 0.87        | 31.0         | 56.5 | 3.1       |
| 45  | 6.0 | 28.1        | 22.2      | 0.79 | 0.85        | 31.0         | 55.3 | 3.7       |
| 45  | 6.3 | 28.1        | 22.2      | 0.79 | 0.85        | 31.0         | 54.8 | 4.0       |
| 45  | 6.6 | 28.1        | 22.2      | 0.79 | 0.84        | 31.0         | 54.4 | 4.3       |
| 45  | 7.2 | 28.1        | 22.2      | 0.79 | 0.83        | 30.9         | 53.6 | 5.0       |
| 55  | 3.9 | 27.2        | 21.7      | 0.80 | 1.07        | 30.9         | 70.8 | 1.7       |
| 55  | 4.8 | 27.3        | 21.8      | 0.80 | 1.04        | 30.8         | 67.8 | 2.4       |
| 55  | 5.4 | 27.3        | 21.8      | 0.80 | 1.02        | 30.8         | 66.4 | 2.9       |
| 55  | 6.0 | 27.3        | 21.8      | 0.80 | 1.01        | 30.7         | 65.2 | 3.5       |
| 55  | 6.3 | 27.4        | 21.9      | 0.80 | 1.00        | 30.8         | 64.8 | 3.8       |
| 55  | 6.6 | 27.4        | 21.9      | 0.80 | 0.99        | 30.8         | 64.3 | 4.1       |
| 55  | 7.2 | 27.4        | 21.9      | 0.80 | 0.98        | 30.8         | 63.6 | 4.8       |



## Performance Data

Table 67. Cooling capacities 2 tons (gross) - DXVG024 (continued)

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 68  | 3.9 | 26.3        | 21.2      | 0.81 | 1.25        | 30.6         | 83.7  | 1.6       |
| 68  | 4.8 | 26.4        | 21.3      | 0.81 | 1.22        | 30.6         | 80.8  | 2.2       |
| 68  | 5.4 | 26.5        | 21.4      | 0.81 | 1.20        | 30.6         | 79.3  | 2.7       |
| 68  | 6.0 | 26.5        | 21.4      | 0.81 | 1.19        | 30.6         | 78.2  | 3.3       |
| 68  | 6.3 | 26.5        | 21.4      | 0.81 | 1.18        | 30.5         | 77.7  | 3.6       |
| 68  | 6.6 | 26.5        | 21.4      | 0.81 | 1.18        | 30.5         | 77.2  | 3.9       |
| 68  | 7.2 | 26.5        | 21.4      | 0.81 | 1.17        | 30.5         | 76.5  | 4.5       |
| 75  | 3.9 | 25.9        | 21.0      | 0.81 | 1.35        | 30.5         | 90.6  | 1.5       |
| 75  | 4.8 | 26.0        | 21.1      | 0.81 | 1.32        | 30.5         | 87.7  | 2.2       |
| 75  | 5.4 | 26.0        | 21.1      | 0.81 | 1.30        | 30.4         | 86.3  | 2.7       |
| 75  | 6.0 | 26.1        | 21.2      | 0.81 | 1.29        | 30.5         | 85.2  | 3.2       |
| 75  | 6.3 | 26.1        | 21.2      | 0.81 | 1.28        | 30.5         | 84.7  | 3.5       |
| 75  | 6.6 | 26.1        | 21.2      | 0.81 | 1.28        | 30.5         | 84.2  | 3.8       |
| 75  | 7.2 | 26.1        | 21.2      | 0.81 | 1.27        | 30.4         | 83.4  | 4.4       |
| 86  | 3.9 | 25.0        | 20.7      | 0.83 | 1.51        | 30.2         | 101.5 | 1.4       |
| 86  | 4.8 | 25.1        | 20.7      | 0.82 | 1.48        | 30.1         | 98.5  | 2.0       |
| 86  | 5.4 | 25.2        | 20.8      | 0.83 | 1.46        | 30.2         | 97.2  | 2.5       |
| 86  | 6.0 | 25.2        | 20.8      | 0.83 | 1.45        | 30.1         | 96.0  | 3.0       |
| 86  | 6.3 | 25.2        | 20.8      | 0.83 | 1.44        | 30.1         | 95.6  | 3.3       |
| 86  | 6.6 | 25.2        | 20.8      | 0.83 | 1.44        | 30.1         | 95.1  | 3.6       |
| 86  | 7.2 | 25.3        | 20.9      | 0.83 | 1.43        | 30.2         | 94.4  | 4.2       |
| 95  | 3.9 | 24.1        | 20.3      | 0.84 | 1.66        | 29.8         | 110.3 | 1.3       |
| 95  | 4.8 | 24.2        | 20.4      | 0.84 | 1.63        | 29.7         | 107.4 | 1.9       |
| 95  | 5.4 | 24.3        | 20.4      | 0.84 | 1.61        | 29.8         | 106.0 | 2.4       |
| 95  | 6.0 | 24.3        | 20.4      | 0.84 | 1.59        | 29.7         | 104.9 | 2.9       |
| 95  | 6.3 | 24.3        | 20.4      | 0.84 | 1.59        | 29.7         | 104.4 | 3.2       |
| 95  | 6.6 | 24.3        | 20.4      | 0.84 | 1.58        | 29.7         | 104.0 | 3.4       |
| 95  | 7.2 | 24.3        | 20.4      | 0.84 | 1.57        | 29.7         | 103.3 | 4.0       |
| 105 | 3.9 | 22.9        | 19.7      | 0.86 | 1.85        | 29.2         | 120.0 | 1.3       |
| 105 | 4.8 | 23.0        | 19.8      | 0.86 | 1.81        | 29.2         | 117.2 | 1.9       |
| 105 | 5.4 | 23.1        | 19.9      | 0.86 | 1.79        | 29.2         | 115.8 | 2.3       |
| 105 | 6.0 | 23.1        | 19.9      | 0.86 | 1.78        | 29.2         | 114.7 | 2.8       |
| 105 | 6.3 | 23.1        | 19.9      | 0.86 | 1.77        | 29.1         | 114.2 | 3.0       |
| 105 | 6.6 | 23.1        | 19.9      | 0.86 | 1.77        | 29.1         | 113.8 | 3.3       |
| 105 | 7.2 | 23.1        | 19.9      | 0.86 | 1.76        | 29.1         | 113.1 | 3.8       |
| 115 | 3.9 | 21.6        | 19.1      | 0.88 | 2.08        | 28.7         | 129.7 | 1.3       |
| 115 | 4.8 | 21.7        | 19.2      | 0.88 | 2.03        | 28.6         | 126.9 | 1.8       |
| 115 | 5.4 | 21.7        | 19.2      | 0.88 | 2.01        | 28.6         | 125.6 | 2.2       |
| 115 | 6.0 | 21.8        | 19.3      | 0.89 | 2.00        | 28.6         | 124.5 | 2.7       |
| 115 | 6.3 | 21.8        | 19.3      | 0.89 | 1.99        | 28.6         | 124.1 | 2.9       |
| 115 | 6.6 | 21.8        | 19.3      | 0.89 | 1.98        | 28.6         | 123.7 | 3.2       |

**Table 67. Cooling capacities 2 tons (gross) - DXVG024 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 115 | 7.2 | 21.8        | 19.3      | 0.89 | 1.97        | 28.5         | 122.9 | 3.7       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 6; Minimum CFM 608; Rated CFM 760; Maximum CFM 912.

**Table 68. Heating capacities 2 tons (gross) - DXVG024**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 3.9 | 16.5          | 11.9         | 1.34        | 18.9 | 1.8       |
| 25  | 4.8 | 16.8          | 12.2         | 1.35        | 19.9 | 2.7       |
| 25  | 5.4 | 17.0          | 12.4         | 1.36        | 20.4 | 3.3       |
| 25  | 6.0 | 17.1          | 12.5         | 1.36        | 20.8 | 3.9       |
| 25  | 6.3 | 17.2          | 12.5         | 1.36        | 21.0 | 4.3       |
| 25  | 6.6 | 17.3          | 12.6         | 1.37        | 21.2 | 4.6       |
| 25  | 7.2 | 17.4          | 12.7         | 1.37        | 21.5 | 5.4       |
| 32  | 3.9 | 18.5          | 13.8         | 1.39        | 24.9 | 1.8       |
| 32  | 4.8 | 18.9          | 14.1         | 1.40        | 26.1 | 2.6       |
| 32  | 5.4 | 19.1          | 14.3         | 1.41        | 26.7 | 3.2       |
| 32  | 6.0 | 19.3          | 14.5         | 1.41        | 27.2 | 3.8       |
| 32  | 6.3 | 19.4          | 14.6         | 1.41        | 27.4 | 4.2       |
| 32  | 6.6 | 19.4          | 14.6         | 1.42        | 27.6 | 4.5       |
| 32  | 7.2 | 19.6          | 14.8         | 1.42        | 27.9 | 5.3       |
| 45  | 3.9 | 22.5          | 17.5         | 1.45        | 36.0 | 1.7       |
| 45  | 4.8 | 23.0          | 18.0         | 1.46        | 37.5 | 2.5       |
| 45  | 5.4 | 23.3          | 18.3         | 1.47        | 38.2 | 3.1       |
| 45  | 6.0 | 23.5          | 18.5         | 1.48        | 38.8 | 3.7       |
| 45  | 6.3 | 23.6          | 18.6         | 1.48        | 39.1 | 4.0       |
| 45  | 6.6 | 23.7          | 18.7         | 1.48        | 39.3 | 4.3       |
| 45  | 7.2 | 23.9          | 18.8         | 1.48        | 39.8 | 5.0       |
| 55  | 3.9 | 25.6          | 20.4         | 1.52        | 44.5 | 1.7       |
| 55  | 4.8 | 26.2          | 21.0         | 1.53        | 46.3 | 2.4       |
| 55  | 5.4 | 26.6          | 21.4         | 1.54        | 47.1 | 2.9       |
| 55  | 6.0 | 26.8          | 21.5         | 1.54        | 47.8 | 3.5       |
| 55  | 6.3 | 26.9          | 21.6         | 1.55        | 48.1 | 3.8       |
| 55  | 6.6 | 27.0          | 21.7         | 1.55        | 48.4 | 4.1       |
| 55  | 7.2 | 27.2          | 21.9         | 1.55        | 48.9 | 4.8       |
| 68  | 3.9 | 29.7          | 24.2         | 1.62        | 55.6 | 1.6       |
| 68  | 4.8 | 30.4          | 24.8         | 1.63        | 57.7 | 2.2       |
| 68  | 5.4 | 30.8          | 25.2         | 1.64        | 58.7 | 2.7       |
| 68  | 6.0 | 31.1          | 25.5         | 1.64        | 59.5 | 3.3       |
| 68  | 6.3 | 31.2          | 25.6         | 1.64        | 59.9 | 3.6       |
| 68  | 6.6 | 31.3          | 25.7         | 1.64        | 60.2 | 3.9       |
| 68  | 7.2 | 31.6          | 26.0         | 1.65        | 60.8 | 4.5       |
| 75  | 3.9 | 31.8          | 26.1         | 1.66        | 61.6 | 1.5       |



## Performance Data

**Table 68. Heating capacities 2 tons (gross) - DXVG024 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 75  | 4.8 | 32.6          | 26.9         | 1.67        | 63.8 | 2.2       |
| 75  | 5.4 | 33.0          | 27.3         | 1.68        | 64.9 | 2.7       |
| 75  | 6.0 | 33.3          | 27.6         | 1.69        | 65.8 | 3.2       |
| 75  | 6.3 | 33.5          | 27.7         | 1.69        | 66.2 | 3.5       |
| 75  | 6.6 | 33.6          | 27.8         | 1.69        | 66.6 | 3.8       |
| 75  | 7.2 | 33.8          | 28.0         | 1.69        | 67.2 | 4.4       |
| 86  | 3.9 | 35.0          | 29.1         | 1.73        | 71.1 | 1.4       |
| 86  | 4.8 | 35.9          | 30.0         | 1.74        | 73.5 | 2.0       |
| 86  | 5.4 | 36.3          | 30.3         | 1.75        | 74.8 | 2.5       |
| 86  | 6.0 | 36.7          | 30.7         | 1.75        | 75.8 | 3.0       |
| 86  | 6.3 | 36.8          | 30.8         | 1.75        | 76.2 | 3.3       |
| 86  | 6.6 | 37.0          | 31.0         | 1.76        | 76.6 | 3.6       |
| 86  | 7.2 | 37.2          | 31.2         | 1.76        | 77.3 | 4.2       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 6; Minimum CFM 608; Rated CFM 760; Maximum CFM 912.

**Table 69. Fan Correction 2 tons DXV024**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 608          | 0.960            | 0.877             | 0.998               | 0.980            | 1.089               |
| 646          | 0.971            | 0.909             | 0.998               | 0.986            | 1.062               |
| 684          | 0.981            | 0.940             | 0.999               | 0.991            | 1.039               |
| 722          | 0.991            | 0.970             | 0.999               | 0.996            | 1.018               |
| 760          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 836          | 1.015            | 1.061             | 1.001               | 1.007            | 0.969               |
| 874          | 1.023            | 1.091             | 1.001               | 1.010            | 0.956               |
| 912          | 1.029            | 1.121             | 1.002               | 1.013            | 0.944               |

**Table 70. Correction factors for variation in entering air temperature 2 tons, DXV024**

| Cooling<br>Entering<br>Air WB°F | Cooling<br>capacity | Cooling<br>Input Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering<br>Air DB°F | Heating<br>capacity | Heating<br>Input Watts |
|---------------------------------|---------------------|------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                        | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  |                                 |                     |                        |
| 49.4                            | 0.892               | 0.996                  | 0.942                                     | 1.019 | 1.076 | *     | *     | 53.0                            | 1.042               | 0.864                  |
| 56.3                            | 0.904               | 0.994                  | 0.811                                     | 0.956 | 1.066 | *     | *     | 58.0                            | 1.028               | 0.907                  |
| 60.3                            | 0.913               | 0.996                  | 0.660                                     | 0.855 | 1.006 | 1.125 | *     | 63.0                            | 1.014               | 0.952                  |
| 63.2                            | 0.956               | 0.998                  | 0.515                                     | 0.748 | 0.931 | 1.076 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                  | —   | 0.610 | 0.826 | 1.000 | 1.142 | 73.0                            | 0.985               | 1.051                  |
| 72.1                            | 1.112               | 1.006                  | —   | —     | 0.553 | 0.783 | 0.972 | 78.0                            | 0.970               | 1.105                  |
| 77.1                            | 1.206               | 1.012                  | —   | —     | —     | —     | 0.772 | 83.0                            | 0.956               | 1.163                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 2.5 tons

**Table 71. Cooling capacities 2.5 tons (gross) - EXHF030**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 45  | 4.5 | 35.26       | 27.16     | 0.77 | 1.001    | 35.2 | 38.68        | 62.2  | 4.8       |
| 45  | 5.5 | 35.36       | 27.16     | 0.77 | 0.971    | 36.4 | 38.67        | 59.1  | 6.9       |
| 45  | 6.2 | 35.86       | 27.46     | 0.77 | 0.941    | 38.1 | 39.07        | 57.6  | 8.5       |
| 45  | 7.0 | 35.96       | 27.46     | 0.76 | 0.921    | 39.0 | 39.10        | 56.2  | 10.6      |
| 45  | 7.3 | 35.46       | 27.06     | 0.76 | 0.931    | 38.1 | 38.64        | 55.6  | 11.4      |
| 45  | 7.6 | 36.16       | 27.56     | 0.76 | 0.911    | 39.7 | 39.27        | 55.3  | 12.2      |
| 45  | 8.3 | 36.26       | 27.56     | 0.76 | 0.901    | 40.2 | 39.34        | 54.5  | 14.3      |
| 55  | 4.5 | 34.06       | 26.66     | 0.78 | 1.141    | 29.9 | 37.95        | 71.9  | 4.7       |
| 55  | 5.5 | 34.36       | 26.86     | 0.78 | 1.101    | 31.2 | 38.12        | 68.9  | 6.6       |
| 55  | 6.2 | 34.46       | 26.76     | 0.78 | 1.081    | 31.9 | 38.15        | 67.3  | 8.2       |
| 55  | 7.0 | 34.66       | 26.86     | 0.77 | 1.061    | 32.7 | 38.28        | 65.9  | 10.2      |
| 55  | 7.3 | 34.66       | 26.96     | 0.78 | 1.061    | 32.7 | 38.28        | 65.5  | 11.0      |
| 55  | 7.6 | 34.76       | 26.96     | 0.78 | 1.051    | 33.1 | 38.35        | 65.1  | 11.8      |
| 55  | 8.3 | 34.76       | 26.96     | 0.78 | 1.041    | 33.4 | 38.31        | 64.2  | 13.8      |
| 68  | 4.5 | 32.76       | 26.26     | 0.80 | 1.351    | 24.2 | 37.37        | 84.6  | 4.5       |
| 68  | 5.5 | 32.96       | 26.26     | 0.80 | 1.311    | 25.1 | 37.43        | 81.6  | 6.4       |
| 68  | 6.2 | 33.06       | 26.26     | 0.79 | 1.291    | 25.6 | 37.47        | 80.1  | 7.9       |
| 68  | 7.0 | 33.26       | 26.36     | 0.79 | 1.271    | 26.2 | 37.60        | 78.7  | 9.8       |
| 68  | 7.3 | 33.26       | 26.46     | 0.80 | 1.261    | 26.4 | 37.56        | 78.3  | 10.5      |
| 68  | 7.6 | 33.26       | 26.36     | 0.79 | 1.261    | 26.4 | 37.56        | 77.9  | 11.3      |
| 68  | 8.3 | 33.36       | 26.36     | 0.79 | 1.251    | 26.7 | 37.63        | 77.1  | 13.2      |
| 75  | 4.5 | 32.46       | 26.16     | 0.81 | 1.391    | 23.3 | 37.21        | 91.5  | 4.3       |
| 75  | 5.5 | 32.76       | 26.16     | 0.80 | 1.351    | 24.2 | 37.37        | 88.6  | 6.2       |
| 75  | 6.2 | 32.86       | 26.16     | 0.80 | 1.331    | 24.7 | 37.40        | 87.1  | 7.7       |
| 75  | 7.0 | 33.06       | 26.26     | 0.79 | 1.311    | 25.2 | 37.53        | 85.7  | 9.5       |
| 75  | 7.3 | 33.06       | 26.26     | 0.79 | 1.301    | 25.4 | 37.50        | 85.3  | 10.2      |
| 75  | 7.6 | 33.06       | 26.26     | 0.79 | 1.301    | 25.4 | 37.50        | 84.9  | 11.0      |
| 75  | 8.3 | 33.16       | 26.26     | 0.79 | 1.291    | 25.7 | 37.57        | 84.1  | 12.8      |
| 77  | 4.5 | 31.56       | 25.66     | 0.81 | 1.521    | 20.7 | 36.75        | 93.3  | 4.2       |
| 77  | 5.5 | 31.86       | 25.76     | 0.81 | 1.471    | 21.7 | 36.88        | 90.4  | 6.0       |
| 77  | 6.2 | 31.96       | 25.76     | 0.81 | 1.451    | 22.0 | 36.91        | 88.9  | 7.5       |
| 77  | 7.0 | 32.16       | 25.96     | 0.81 | 1.431    | 22.5 | 37.04        | 87.6  | 9.3       |
| 77  | 7.3 | 32.16       | 25.76     | 0.80 | 1.431    | 22.5 | 37.04        | 87.1  | 10.0      |
| 77  | 7.6 | 32.16       | 25.86     | 0.80 | 1.421    | 22.6 | 37.01        | 86.7  | 10.8      |
| 77  | 8.3 | 32.26       | 26.06     | 0.81 | 1.411    | 22.9 | 37.08        | 85.9  | 12.6      |
| 86  | 4.5 | 30.46       | 25.16     | 0.83 | 1.701    | 17.9 | 36.27        | 102.1 | 4.2       |
| 86  | 5.5 | 30.76       | 25.26     | 0.82 | 1.651    | 18.6 | 36.39        | 99.2  | 6.0       |
| 86  | 6.2 | 30.76       | 25.36     | 0.82 | 1.621    | 19.0 | 36.29        | 97.7  | 7.4       |
| 86  | 7.0 | 30.86       | 25.36     | 0.82 | 1.601    | 19.3 | 36.32        | 96.4  | 9.2       |
| 86  | 7.3 | 30.96       | 25.36     | 0.82 | 1.601    | 19.3 | 36.42        | 96.0  | 9.9       |
| 86  | 7.6 | 30.96       | 25.46     | 0.82 | 1.591    | 19.5 | 36.39        | 95.6  | 10.7      |
| 86  | 8.3 | 31.06       | 25.36     | 0.82 | 1.581    | 19.6 | 36.46        | 94.8  | 12.5      |



## Performance Data

**Table 71. Cooling capacities 2.5 tons (gross) - EXHF030 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 95  | 4.5 | 29.26       | 24.86     | 0.85 | 1.911    | 15.3 | 35.78        | 110.9 | 4.1       |
| 95  | 5.5 | 29.36       | 24.76     | 0.84 | 1.861    | 15.8 | 35.71        | 108.0 | 5.9       |
| 95  | 6.2 | 29.46       | 24.76     | 0.84 | 1.831    | 16.1 | 35.71        | 106.5 | 7.3       |
| 95  | 7.0 | 29.56       | 24.66     | 0.83 | 1.811    | 16.3 | 35.74        | 105.2 | 9.0       |
| 95  | 7.3 | 29.66       | 24.66     | 0.83 | 1.801    | 16.5 | 35.81        | 104.8 | 9.7       |
| 95  | 7.6 | 29.66       | 24.76     | 0.83 | 1.791    | 16.6 | 35.77        | 104.4 | 10.4      |
| 95  | 8.3 | 29.66       | 24.86     | 0.84 | 1.781    | 16.7 | 35.74        | 103.6 | 12.1      |
| 105 | 4.5 | 27.56       | 23.96     | 0.87 | 2.171    | 12.7 | 34.97        | 120.5 | 4.0       |
| 105 | 5.5 | 27.76       | 24.06     | 0.87 | 2.111    | 13.2 | 34.96        | 117.7 | 5.7       |
| 105 | 6.2 | 27.96       | 24.26     | 0.87 | 2.091    | 13.4 | 35.10        | 116.3 | 7.1       |
| 105 | 7.0 | 27.96       | 24.16     | 0.86 | 2.061    | 13.6 | 34.99        | 115.0 | 8.7       |
| 105 | 7.3 | 27.96       | 24.16     | 0.86 | 2.051    | 13.6 | 34.96        | 114.6 | 9.4       |
| 105 | 7.6 | 28.06       | 24.26     | 0.86 | 2.051    | 13.7 | 35.06        | 114.2 | 10.1      |
| 105 | 8.3 | 28.06       | 24.16     | 0.86 | 2.031    | 13.8 | 34.99        | 113.4 | 11.8      |
| 115 | 4.5 | 25.66       | 23.06     | 0.90 | 2.481    | 10.3 | 34.13        | 130.2 | 3.9       |
| 115 | 5.5 | 25.86       | 23.16     | 0.90 | 2.421    | 10.7 | 34.12        | 127.4 | 5.6       |
| 115 | 6.2 | 26.06       | 23.26     | 0.89 | 2.391    | 10.9 | 34.22        | 126.0 | 6.9       |
| 115 | 7.0 | 26.16       | 23.36     | 0.89 | 2.361    | 11.1 | 34.22        | 124.8 | 8.5       |
| 115 | 7.3 | 26.16       | 23.26     | 0.89 | 2.351    | 11.1 | 34.18        | 124.4 | 9.2       |
| 115 | 7.6 | 26.16       | 23.26     | 0.89 | 2.341    | 11.2 | 34.15        | 124.0 | 9.8       |
| 115 | 8.3 | 26.26       | 23.36     | 0.89 | 2.331    | 11.3 | 34.22        | 123.2 | 11.5      |
| 120 | 4.5 | 24.66       | 22.56     | 0.91 | 2.641    | 9.3  | 33.67        | 135.0 | 3.9       |
| 120 | 5.5 | 24.96       | 22.76     | 0.91 | 2.581    | 9.7  | 33.77        | 132.3 | 5.5       |
| 120 | 6.2 | 24.86       | 22.66     | 0.91 | 2.551    | 9.7  | 33.57        | 130.8 | 6.8       |
| 120 | 7.0 | 25.06       | 22.76     | 0.91 | 2.521    | 9.9  | 33.66        | 129.6 | 8.4       |
| 120 | 7.3 | 25.16       | 22.76     | 0.90 | 2.521    | 10.0 | 33.76        | 129.2 | 9.1       |
| 120 | 7.6 | 25.16       | 22.86     | 0.91 | 2.511    | 10.0 | 33.73        | 128.9 | 9.7       |
| 120 | 8.3 | 25.26       | 22.86     | 0.90 | 2.491    | 10.1 | 33.76        | 128.1 | 11.4      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 7.0, Rated CFM 950, Minimum CFM 760, Maximum CFM 1045.

**Table 72. Heating capacities 2.5 tons (gross) - EXHF030**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 25  | 7.0 | 19.65         | 14.45        | 1.523    | 3.8 | 20.9 | 16.0      |
| 25  | 7.3 | 19.75         | 14.55        | 1.523    | 3.8 | 21.0 | 17.2      |
| 25  | 7.6 | 19.85         | 14.62        | 1.533    | 3.8 | 21.2 | 18.5      |
| 25  | 8.3 | 19.95         | 14.75        | 1.523    | 3.8 | 21.4 | 21.5      |
| 32  | 4.5 | 21.05         | 15.82        | 1.533    | 4.0 | 25.0 | 7.2       |
| 32  | 5.5 | 21.55         | 16.25        | 1.553    | 4.1 | 26.1 | 10.2      |
| 32  | 6.2 | 21.85         | 16.55        | 1.553    | 4.1 | 26.7 | 12.6      |
| 32  | 7.0 | 22.05         | 16.75        | 1.553    | 4.2 | 27.2 | 15.5      |
| 32  | 7.3 | 22.15         | 16.85        | 1.553    | 4.2 | 27.4 | 16.7      |
| 32  | 7.6 | 22.25         | 16.95        | 1.553    | 4.2 | 27.5 | 17.9      |



**Table 72. Heating capacities 2.5 tons (gross) - EXHF030 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 32  | 8.3 | 22.35         | 17.05        | 1.553    | 4.2 | 27.9 | 20.9      |
| 45  | 4.5 | 26.05         | 20.51        | 1.623    | 4.7 | 35.9 | 4.8       |
| 45  | 5.5 | 26.65         | 21.08        | 1.633    | 4.8 | 37.3 | 6.9       |
| 45  | 6.2 | 26.95         | 21.34        | 1.643    | 4.8 | 38.1 | 8.5       |
| 45  | 7.0 | 27.25         | 21.64        | 1.643    | 4.9 | 38.8 | 10.6      |
| 45  | 7.3 | 27.35         | 21.74        | 1.643    | 4.9 | 39.0 | 11.4      |
| 45  | 7.6 | 27.45         | 21.84        | 1.643    | 4.9 | 39.3 | 12.2      |
| 45  | 8.3 | 27.65         | 22.01        | 1.653    | 4.9 | 39.7 | 14.3      |
| 55  | 4.5 | 29.55         | 23.84        | 1.673    | 5.2 | 44.4 | 4.7       |
| 55  | 5.5 | 30.25         | 24.51        | 1.683    | 5.3 | 46.1 | 6.6       |
| 55  | 6.2 | 30.65         | 24.87        | 1.693    | 5.3 | 47.0 | 8.2       |
| 55  | 7.0 | 31.05         | 25.24        | 1.703    | 5.3 | 47.8 | 10.2      |
| 55  | 7.3 | 31.25         | 25.44        | 1.703    | 5.4 | 48.0 | 11.0      |
| 55  | 7.6 | 31.35         | 25.54        | 1.703    | 5.4 | 48.3 | 11.8      |
| 55  | 8.3 | 31.45         | 25.64        | 1.703    | 5.4 | 48.8 | 13.8      |
| 68  | 4.5 | 34.95         | 28.90        | 1.773    | 5.8 | 55.2 | 4.5       |
| 68  | 5.5 | 35.85         | 29.76        | 1.783    | 5.9 | 57.2 | 6.4       |
| 68  | 6.2 | 36.45         | 30.33        | 1.793    | 6.0 | 58.2 | 7.9       |
| 68  | 7.0 | 36.85         | 30.73        | 1.793    | 6.0 | 59.2 | 9.8       |
| 68  | 7.3 | 36.95         | 30.83        | 1.793    | 6.0 | 59.6 | 10.5      |
| 68  | 7.6 | 37.15         | 31.00        | 1.803    | 6.0 | 59.8 | 11.3      |
| 68  | 8.3 | 37.35         | 31.23        | 1.793    | 6.1 | 60.5 | 13.2      |
| 75  | 4.5 | 37.65         | 31.50        | 1.803    | 6.1 | 61.0 | 4.3       |
| 75  | 5.5 | 38.75         | 32.56        | 1.813    | 6.3 | 63.2 | 6.2       |
| 75  | 6.2 | 39.15         | 32.96        | 1.813    | 6.3 | 64.4 | 7.7       |
| 75  | 7.0 | 39.65         | 33.43        | 1.823    | 6.4 | 65.4 | 9.5       |
| 75  | 7.3 | 39.85         | 33.63        | 1.823    | 6.4 | 65.8 | 10.2      |
| 75  | 7.6 | 39.95         | 33.73        | 1.823    | 6.4 | 66.1 | 11.0      |
| 75  | 8.3 | 40.25         | 34.03        | 1.823    | 6.5 | 66.8 | 12.8      |
| 77  | 4.5 | 41.05         | 34.79        | 1.833    | 6.6 | 61.5 | 4.2       |
| 77  | 5.5 | 42.15         | 35.86        | 1.843    | 6.7 | 64.0 | 6.0       |
| 77  | 6.2 | 42.75         | 36.46        | 1.843    | 6.8 | 65.2 | 7.5       |
| 77  | 7.0 | 43.25         | 36.93        | 1.853    | 6.8 | 66.4 | 9.3       |
| 77  | 7.3 | 43.45         | 37.13        | 1.853    | 6.9 | 66.8 | 10.0      |
| 77  | 7.6 | 43.55         | 37.23        | 1.853    | 6.9 | 67.2 | 10.8      |
| 77  | 8.3 | 43.85         | 37.53        | 1.853    | 6.9 | 68.0 | 12.6      |
| 86  | 4.5 | 41.85         | 35.56        | 1.843    | 6.7 | 70.2 | 4.2       |
| 86  | 5.5 | 42.95         | 36.63        | 1.853    | 6.8 | 72.7 | 6.0       |
| 86  | 6.2 | 43.55         | 37.23        | 1.853    | 6.9 | 74.0 | 7.4       |
| 86  | 7.0 | 44.05         | 37.69        | 1.863    | 6.9 | 75.2 | 9.2       |
| 86  | 7.3 | 44.25         | 37.89        | 1.863    | 7.0 | 75.6 | 9.9       |
| 86  | 7.6 | 44.35         | 37.99        | 1.863    | 7.0 | 76.0 | 10.7      |



## Performance Data

**Table 72. Heating capacities 2.5 tons (gross) - EXHF030 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|-----|---------------|--------------|----------|-----|------|-----------|
| 86  | 8.3 | 44.65         | 38.29        | 1.863    | 7.0 | 76.8 | 12.5      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 7.0, Rated CFM 950, Minimum CFM 760, Maximum CFM 1045.

**Table 73. Fan Correction 2.5 tons EXHF030**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 760          | 0.960            | 0.879             | 1.004              | 0.980            | 1.083              |
| 855          | 0.982            | 0.938             | 1.002              | 0.995            | 1.038              |
| 950          | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1045         | 1.016            | 1.066             | 0.999              | 1.007            | 0.969              |

**Table 74. Correction factors for variation in entering air temperature 2.5 tons, EXHF030**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.943               | 1.010                     | 0.963                                     | 1.032 | 1.101 | *     | *     | 53.0                            | 1.034               | 0.857                  |
| 56.3                            | 0.942               | 1.010                     | 0.804                                     | 1.006 | 1.106 | *     | *     | 58.0                            | 1.028               | 0.905                  |
| 60.3                            | 0.941               | 1.010                     | 0.603                                     | 0.837 | 1.059 | *     | *     | 63.0                            | 1.016               | 0.951                  |
| 63.2                            | 0.952               | 1.008                     | 0.467                                     | 0.698 | 0.922 | 1.127 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.543 | 0.777 | 1.000 | 1.202 | 73.0                            | 0.992               | 1.054                  |
| 72.1                            | 1.081               | 0.971                     | —   | —     | 0.477 | 0.698 | 0.928 | 78.0                            | 0.973               | 1.102                  |
| 77.1                            | 1.163               | 0.954                     | —   | —     | —     | 0.454 | 0.679 | 83.0                            | 0.961               | 1.160                  |

**Note:** \* = Sensible equals total capacity

**Table 75. Cooling capacities 2.5 tons (gross) - EXVG030**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------------|--------------|------|-----------|
| 45  | 4.9 | 36.2        | 28.1      | 0.78 | 1.17           | 40.2         | 61.4 | 2.5       |
| 45  | 6.0 | 36.2        | 28.1      | 0.78 | 1.16           | 40.2         | 58.4 | 3.6       |
| 45  | 6.8 | 36.3        | 28.2      | 0.78 | 1.16           | 40.2         | 56.8 | 4.5       |
| 45  | 7.5 | 36.3        | 28.2      | 0.78 | 1.15           | 40.2         | 55.7 | 5.3       |
| 45  | 7.9 | 36.3        | 28.2      | 0.78 | 1.15           | 40.2         | 55.2 | 5.8       |
| 45  | 8.3 | 36.4        | 28.3      | 0.78 | 1.15           | 40.3         | 54.7 | 6.3       |
| 45  | 9.0 | 36.4        | 28.3      | 0.78 | 1.15           | 40.3         | 54.0 | 7.3       |
| 55  | 4.9 | 35.9        | 27.8      | 0.77 | 1.26           | 40.2         | 71.4 | 2.3       |
| 55  | 6.0 | 36.0        | 27.9      | 0.77 | 1.23           | 40.2         | 68.4 | 3.3       |
| 55  | 6.8 | 36.0        | 27.9      | 0.77 | 1.22           | 40.2         | 66.8 | 4.1       |
| 55  | 7.5 | 36.1        | 28.0      | 0.78 | 1.21           | 40.2         | 65.7 | 4.9       |
| 55  | 7.9 | 36.1        | 28.0      | 0.78 | 1.21           | 40.2         | 65.2 | 5.3       |
| 55  | 8.3 | 36.1        | 28.0      | 0.78 | 1.20           | 40.2         | 64.7 | 5.8       |
| 55  | 9.0 | 36.1        | 28.0      | 0.78 | 1.20           | 40.2         | 63.9 | 6.7       |
| 68  | 4.9 | 34.9        | 27.4      | 0.79 | 1.44           | 39.8         | 84.2 | 2.1       |
| 68  | 6.0 | 34.9        | 27.4      | 0.79 | 1.40           | 39.7         | 81.2 | 3.0       |
| 68  | 6.8 | 35.0        | 27.5      | 0.79 | 1.38           | 39.7         | 79.7 | 3.8       |
| 68  | 7.5 | 35.0        | 27.5      | 0.79 | 1.37           | 39.7         | 78.6 | 4.5       |

**Table 75. Cooling capacities 2.5 tons (gross) - EXVG030 (continued)**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|-----|-------------|-----------|------|-------------|--------------|-------|-----------|
| 68  | 7.9 | 35.0        | 27.5      | 0.79 | 1.36        | 39.7         | 78.1  | 4.9       |
| 68  | 8.3 | 35.0        | 27.5      | 0.79 | 1.36        | 39.6         | 77.5  | 5.4       |
| 68  | 9.0 | 35.1        | 27.5      | 0.78 | 1.35        | 39.7         | 76.8  | 6.2       |
| 75  | 4.9 | 34.0        | 27.1      | 0.80 | 1.57        | 39.4         | 91.1  | 2.0       |
| 75  | 6.0 | 34.0        | 27.1      | 0.80 | 1.53        | 39.2         | 88.1  | 2.9       |
| 75  | 6.8 | 34.1        | 27.1      | 0.79 | 1.51        | 39.2         | 86.5  | 3.6       |
| 75  | 7.5 | 34.1        | 27.1      | 0.79 | 1.49        | 39.2         | 85.5  | 4.3       |
| 75  | 7.9 | 34.1        | 27.1      | 0.79 | 1.48        | 39.2         | 84.9  | 4.7       |
| 75  | 8.3 | 34.1        | 27.1      | 0.79 | 1.48        | 39.1         | 84.4  | 5.2       |
| 75  | 9.0 | 34.2        | 27.2      | 0.80 | 1.47        | 39.2         | 83.7  | 6.0       |
| 86  | 4.9 | 32.4        | 26.4      | 0.81 | 1.81        | 38.6         | 101.8 | 2.0       |
| 86  | 6.0 | 32.5        | 26.5      | 0.82 | 1.76        | 38.5         | 98.8  | 2.8       |
| 86  | 6.8 | 32.5        | 26.5      | 0.82 | 1.74        | 38.4         | 97.3  | 3.5       |
| 86  | 7.5 | 32.5        | 26.5      | 0.82 | 1.72        | 38.4         | 96.2  | 4.1       |
| 86  | 7.9 | 32.6        | 26.6      | 0.82 | 1.71        | 38.4         | 95.7  | 4.5       |
| 86  | 8.3 | 32.6        | 26.6      | 0.82 | 1.70        | 38.4         | 95.3  | 4.9       |
| 86  | 9.0 | 32.6        | 26.6      | 0.82 | 1.69        | 38.4         | 94.5  | 5.7       |
| 95  | 4.9 | 31.1        | 25.9      | 0.83 | 2.04        | 38.0         | 110.5 | 1.9       |
| 95  | 6.0 | 31.2        | 26.0      | 0.83 | 1.98        | 38.0         | 107.7 | 2.7       |
| 95  | 6.8 | 31.2        | 26.0      | 0.83 | 1.95        | 37.9         | 106.1 | 3.3       |
| 95  | 7.5 | 31.3        | 26.1      | 0.83 | 1.93        | 37.9         | 105.1 | 4.0       |
| 95  | 7.9 | 31.3        | 26.1      | 0.83 | 1.92        | 37.9         | 104.6 | 4.4       |
| 95  | 8.3 | 31.3        | 26.1      | 0.83 | 1.92        | 37.8         | 104.1 | 4.7       |
| 95  | 9.0 | 31.3        | 26.1      | 0.83 | 1.90        | 37.8         | 103.4 | 5.5       |
| 105 | 4.9 | 29.6        | 25.2      | 0.85 | 2.30        | 37.4         | 120.3 | 1.8       |
| 105 | 6.0 | 29.7        | 25.3      | 0.85 | 2.24        | 37.4         | 117.5 | 2.6       |
| 105 | 6.8 | 29.7        | 25.3      | 0.85 | 2.22        | 37.3         | 116.0 | 3.2       |
| 105 | 7.5 | 29.7        | 25.3      | 0.85 | 2.20        | 37.2         | 114.9 | 3.8       |
| 105 | 7.9 | 29.8        | 25.4      | 0.85 | 2.19        | 37.3         | 114.4 | 4.2       |
| 105 | 8.3 | 29.8        | 25.4      | 0.85 | 2.18        | 37.2         | 114.0 | 4.6       |
| 105 | 9.0 | 29.8        | 25.4      | 0.85 | 2.16        | 37.2         | 113.3 | 5.3       |
| 115 | 4.9 | 27.8        | 24.4      | 0.88 | 2.57        | 36.6         | 129.9 | 1.8       |
| 115 | 6.0 | 27.9        | 24.5      | 0.88 | 2.52        | 36.5         | 127.2 | 2.5       |
| 115 | 6.8 | 27.9        | 24.5      | 0.88 | 2.49        | 36.4         | 125.7 | 3.2       |
| 115 | 7.5 | 28.0        | 24.6      | 0.88 | 2.47        | 36.4         | 124.7 | 3.7       |
| 115 | 7.9 | 28.0        | 24.6      | 0.88 | 2.46        | 36.4         | 124.2 | 4.1       |
| 115 | 8.3 | 28.0        | 24.6      | 0.88 | 2.45        | 36.4         | 123.8 | 4.5       |
| 115 | 9.0 | 28.0        | 24.6      | 0.88 | 2.44        | 36.3         | 123.1 | 5.1       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 7.5; Minimum CFM 760; Rated CFM 950; Maximum CFM 1140.



## Performance Data

Table 76. Heating capacities 2.5 tons (gross) - EXVG030

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 25  | 4.9 | 20.0          | 14.8         | 1.53        | 19.0 | 3.1       |
| 25  | 6.0 | 20.3          | 15.0         | 1.55        | 20.0 | 4.4       |
| 25  | 6.8 | 20.5          | 15.2         | 1.56        | 20.5 | 5.4       |
| 25  | 7.5 | 20.7          | 15.4         | 1.56        | 20.9 | 6.5       |
| 25  | 7.9 | 20.8          | 15.5         | 1.57        | 21.1 | 7.1       |
| 25  | 8.3 | 20.8          | 15.4         | 1.57        | 21.3 | 7.7       |
| 25  | 9.0 | 20.9          | 15.5         | 1.57        | 21.6 | 8.9       |
| 32  | 4.9 | 22.4          | 17.1         | 1.56        | 25.0 | 2.9       |
| 32  | 6.0 | 22.8          | 17.4         | 1.58        | 26.2 | 4.1       |
| 32  | 6.8 | 23.1          | 17.7         | 1.59        | 26.8 | 5.1       |
| 32  | 7.5 | 23.3          | 17.9         | 1.60        | 27.2 | 6.0       |
| 32  | 7.9 | 23.4          | 17.9         | 1.60        | 27.5 | 6.6       |
| 32  | 8.3 | 23.5          | 18.0         | 1.60        | 27.7 | 7.2       |
| 32  | 9.0 | 23.6          | 18.1         | 1.61        | 28.0 | 8.3       |
| 45  | 4.9 | 27.2          | 21.4         | 1.69        | 36.3 | 2.5       |
| 45  | 6.0 | 27.8          | 22.0         | 1.70        | 37.7 | 3.6       |
| 45  | 6.8 | 28.2          | 22.4         | 1.71        | 38.4 | 4.5       |
| 45  | 7.5 | 28.4          | 22.5         | 1.72        | 39.0 | 5.3       |
| 45  | 7.9 | 28.6          | 22.7         | 1.72        | 39.3 | 5.8       |
| 45  | 8.3 | 28.7          | 22.8         | 1.72        | 39.5 | 6.3       |
| 45  | 9.0 | 28.8          | 22.9         | 1.73        | 39.9 | 7.3       |
| 55  | 4.9 | 31.1          | 25.0         | 1.78        | 44.8 | 2.3       |
| 55  | 6.0 | 31.9          | 25.8         | 1.79        | 46.4 | 3.3       |
| 55  | 6.8 | 32.3          | 26.2         | 1.80        | 47.3 | 4.1       |
| 55  | 7.5 | 32.6          | 26.4         | 1.81        | 48.0 | 4.9       |
| 55  | 7.9 | 32.7          | 26.5         | 1.81        | 48.3 | 5.3       |
| 55  | 8.3 | 32.9          | 26.7         | 1.81        | 48.6 | 5.8       |
| 55  | 9.0 | 33.1          | 26.9         | 1.82        | 49.0 | 6.7       |
| 68  | 4.9 | 36.3          | 29.9         | 1.87        | 55.8 | 2.1       |
| 68  | 6.0 | 37.2          | 30.8         | 1.88        | 57.7 | 3.0       |
| 68  | 6.8 | 37.7          | 31.2         | 1.89        | 58.8 | 3.8       |
| 68  | 7.5 | 38.0          | 31.5         | 1.90        | 59.6 | 4.5       |
| 68  | 7.9 | 38.2          | 31.7         | 1.90        | 60.0 | 4.9       |
| 68  | 8.3 | 38.4          | 31.9         | 1.90        | 60.3 | 5.4       |
| 68  | 9.0 | 38.6          | 32.1         | 1.91        | 60.9 | 6.2       |
| 75  | 4.9 | 39.0          | 32.5         | 1.92        | 61.7 | 2.0       |
| 75  | 6.0 | 40.0          | 33.4         | 1.93        | 63.9 | 2.9       |
| 75  | 6.8 | 40.5          | 33.9         | 1.94        | 65.0 | 3.6       |
| 75  | 7.5 | 40.9          | 34.3         | 1.95        | 65.9 | 4.3       |
| 75  | 7.9 | 41.1          | 34.4         | 1.95        | 66.3 | 4.7       |
| 75  | 8.3 | 41.3          | 34.6         | 1.95        | 66.7 | 5.2       |

**Table 76. Heating capacities 2.5 tons (gross) - EXVG030 (continued)**

| EWT | GPM | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|-----|---------------|--------------|-------------|------|-----------|
| 75  | 9.0 | 41.5          | 34.8         | 1.96        | 67.3 | 6.0       |
| 86  | 4.9 | 43.1          | 36.1         | 2.06        | 71.3 | 2.0       |
| 86  | 6.0 | 44.2          | 37.1         | 2.07        | 73.6 | 2.8       |
| 86  | 6.8 | 44.8          | 37.7         | 2.08        | 74.9 | 3.5       |
| 86  | 7.5 | 45.2          | 38.1         | 2.09        | 75.8 | 4.1       |
| 86  | 7.9 | 45.4          | 38.3         | 2.09        | 76.3 | 4.5       |
| 86  | 8.3 | 45.6          | 38.5         | 2.09        | 76.7 | 4.9       |
| 86  | 9.0 | 45.9          | 38.7         | 2.10        | 77.4 | 5.7       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 7.5; Minimum CFM 760; Rated CFM 950; Maximum CFM 1140.

**Table 77. Fan Correction 2.5 EXVG030**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 760          | 0.960            | 0.879             | 0.997               | 0.978            | 1.094               |
| 808          | 0.971            | 0.910             | 0.998               | 0.985            | 1.066               |
| 855          | 0.982            | 0.940             | 0.999               | 0.990            | 1.042               |
| 903          | 0.992            | 0.970             | 0.999               | 0.996            | 1.020               |
| 950          | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1045         | 1.015            | 1.059             | 1.001               | 1.007            | 0.966               |
| 1093         | 1.022            | 1.089             | 1.002               | 1.010            | 0.951               |
| 1140         | 1.028            | 1.119             | 1.002               | 1.013            | 0.938               |

**Table 78. Correction factors for variation in entering air temperature 2.5 tons, EXVG030**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.893               | 0.994                     | 0.951                                     | 1.030 | 1.088 | *     | *     | 53.0                            | 1.035               | 0.846                  |
| 56.3                            | 0.906               | 0.994                     | 0.813                                     | 0.958 | 1.071 | *     | *     | 58.0                            | 1.025               | 0.895                  |
| 60.3                            | 0.917               | 0.995                     | 0.667                                     | 0.856 | 1.004 | 1.123 | *     | 63.0                            | 1.013               | 0.946                  |
| 63.2                            | 0.949               | 0.997                     | 0.531                                     | 0.753 | 0.930 | 1.073 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.624 | 0.831 | 1.000 | 1.139 | 73.0                            | 0.985               | 1.056                  |
| 72.1                            | 1.109               | 1.011                     | —   | —     | 0.570 | 0.794 | 0.980 | 78.0                            | 0.969               | 1.115                  |
| 77.1                            | 1.207               | 1.025                     | —   | —     | —     | —     | 0.787 | 83.0                            | 0.952               | 1.174                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 3 tons

**Table 79. Cooling capacities 3 tons (gross) - EXHF036**

| EWT | GPM | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|-----|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 5.4 | 41.39       | 31.39     | 0.76 | 1.103    | 37.5 | 45.15        | 61.7 | 2.9       |
| 45  | 6.6 | 41.69       | 31.59     | 0.76 | 1.043    | 40.0 | 45.25        | 58.7 | 4.1       |
| 45  | 7.5 | 41.79       | 31.59     | 0.76 | 1.013    | 41.3 | 45.25        | 57.1 | 5.1       |
| 45  | 8.4 | 41.89       | 31.59     | 0.75 | 0.993    | 42.2 | 45.28        | 55.8 | 6.3       |
| 45  | 8.7 | 41.89       | 31.69     | 0.76 | 0.983    | 42.6 | 45.24        | 55.4 | 6.7       |

**Table 79. Cooling capacities 3 tons (gross) - EXHF036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 45  | 9.1  | 41.99       | 31.59     | 0.75 | 0.983    | 42.7 | 45.34        | 55.0  | 7.2       |
| 45  | 10.0 | 42.09       | 31.59     | 0.75 | 0.963    | 43.7 | 45.38        | 54.1  | 8.6       |
| 55  | 5.4  | 40.09       | 30.89     | 0.77 | 1.313    | 30.5 | 44.57        | 71.5  | 2.8       |
| 55  | 6.6  | 40.29       | 30.89     | 0.77 | 1.263    | 31.9 | 44.60        | 68.5  | 3.9       |
| 55  | 7.5  | 40.39       | 30.89     | 0.76 | 1.233    | 32.8 | 44.60        | 66.9  | 4.9       |
| 55  | 8.4  | 40.49       | 31.09     | 0.77 | 1.213    | 33.4 | 44.63        | 65.6  | 6.0       |
| 55  | 8.7  | 40.59       | 31.09     | 0.77 | 1.203    | 33.7 | 44.70        | 65.3  | 6.4       |
| 55  | 9.1  | 40.59       | 31.09     | 0.77 | 1.193    | 34.0 | 44.66        | 64.8  | 7.0       |
| 55  | 10.0 | 40.69       | 31.19     | 0.77 | 1.183    | 34.4 | 44.73        | 63.9  | 8.2       |
| 68  | 5.4  | 38.09       | 29.99     | 0.79 | 1.583    | 24.1 | 43.49        | 84.1  | 2.6       |
| 68  | 6.6  | 38.29       | 30.09     | 0.79 | 1.523    | 25.1 | 43.49        | 81.2  | 3.8       |
| 68  | 7.5  | 38.39       | 30.19     | 0.79 | 1.493    | 25.7 | 43.49        | 79.6  | 4.7       |
| 68  | 8.4  | 38.49       | 30.19     | 0.78 | 1.473    | 26.1 | 43.52        | 78.4  | 5.8       |
| 68  | 8.7  | 38.49       | 30.19     | 0.78 | 1.473    | 26.1 | 43.52        | 78.0  | 6.2       |
| 68  | 9.1  | 38.59       | 30.19     | 0.78 | 1.463    | 26.4 | 43.58        | 77.6  | 6.7       |
| 68  | 10.0 | 38.59       | 30.29     | 0.78 | 1.443    | 26.7 | 43.51        | 76.7  | 7.9       |
| 75  | 5.4  | 37.79       | 29.89     | 0.79 | 1.623    | 23.3 | 43.33        | 91.0  | 2.6       |
| 75  | 6.6  | 37.99       | 29.99     | 0.79 | 1.563    | 24.3 | 43.32        | 88.1  | 3.7       |
| 75  | 7.5  | 38.09       | 30.09     | 0.79 | 1.543    | 24.7 | 43.36        | 86.6  | 4.6       |
| 75  | 8.4  | 38.19       | 30.09     | 0.79 | 1.513    | 25.2 | 43.35        | 85.3  | 5.6       |
| 75  | 8.7  | 38.19       | 30.09     | 0.79 | 1.513    | 25.2 | 43.35        | 85.0  | 6.0       |
| 75  | 9.1  | 38.29       | 30.09     | 0.79 | 1.503    | 25.5 | 43.42        | 84.5  | 6.5       |
| 75  | 10.0 | 38.29       | 30.19     | 0.79 | 1.493    | 25.6 | 43.39        | 83.7  | 7.6       |
| 77  | 5.4  | 36.69       | 29.39     | 0.80 | 1.773    | 20.7 | 42.74        | 92.8  | 2.5       |
| 77  | 6.6  | 36.89       | 29.49     | 0.80 | 1.723    | 21.4 | 42.77        | 90.0  | 3.6       |
| 77  | 7.5  | 36.99       | 29.59     | 0.80 | 1.703    | 21.7 | 42.80        | 88.4  | 4.5       |
| 77  | 8.4  | 37.19       | 29.69     | 0.80 | 1.673    | 22.2 | 42.90        | 87.2  | 5.5       |
| 77  | 8.7  | 37.19       | 29.69     | 0.80 | 1.673    | 22.2 | 42.90        | 86.9  | 5.9       |
| 77  | 9.1  | 37.19       | 29.69     | 0.80 | 1.663    | 22.4 | 42.87        | 86.4  | 6.3       |
| 77  | 10.0 | 37.29       | 29.69     | 0.80 | 1.653    | 22.6 | 42.93        | 85.6  | 7.5       |
| 86  | 5.4  | 35.19       | 28.79     | 0.82 | 1.983    | 17.7 | 41.96        | 101.5 | 2.5       |
| 86  | 6.6  | 35.39       | 28.89     | 0.82 | 1.923    | 18.4 | 41.95        | 98.7  | 3.6       |
| 86  | 7.5  | 35.49       | 28.99     | 0.82 | 1.903    | 18.6 | 41.98        | 97.2  | 4.5       |
| 86  | 8.4  | 35.59       | 28.99     | 0.81 | 1.873    | 19.0 | 41.98        | 96.0  | 5.5       |
| 86  | 8.7  | 35.59       | 28.99     | 0.81 | 1.873    | 19.0 | 41.98        | 95.7  | 5.9       |
| 86  | 9.1  | 35.59       | 28.99     | 0.81 | 1.863    | 19.1 | 41.95        | 95.2  | 6.3       |
| 86  | 10.0 | 35.69       | 28.99     | 0.81 | 1.853    | 19.3 | 42.01        | 94.4  | 7.5       |
| 95  | 5.4  | 33.59       | 28.19     | 0.84 | 2.223    | 15.1 | 41.18        | 110.3 | 2.5       |
| 95  | 6.6  | 33.79       | 28.19     | 0.83 | 2.163    | 15.6 | 41.17        | 107.5 | 3.5       |
| 95  | 7.5  | 33.89       | 28.19     | 0.83 | 2.143    | 15.8 | 41.20        | 106.0 | 4.4       |
| 95  | 8.4  | 33.99       | 28.29     | 0.83 | 2.113    | 16.1 | 41.20        | 104.8 | 5.4       |
| 95  | 8.7  | 33.99       | 28.29     | 0.83 | 2.113    | 16.1 | 41.20        | 104.5 | 5.7       |
| 95  | 9.1  | 34.09       | 28.29     | 0.83 | 2.103    | 16.2 | 41.27        | 104.1 | 6.2       |

**Table 79. Cooling capacities 3 tons (gross) - EXHF036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 95  | 10.0 | 34.09       | 28.29     | 0.83 | 2.083    | 16.4 | 41.20        | 103.2 | 7.3       |
| 105 | 5.4  | 31.79       | 27.39     | 0.86 | 2.523    | 12.6 | 40.40        | 120.0 | 2.4       |
| 105 | 6.6  | 31.99       | 27.49     | 0.86 | 2.463    | 13.0 | 40.40        | 117.2 | 3.4       |
| 105 | 7.5  | 32.09       | 27.49     | 0.86 | 2.433    | 13.2 | 40.39        | 115.8 | 4.3       |
| 105 | 8.4  | 32.19       | 27.49     | 0.85 | 2.403    | 13.4 | 40.39        | 114.6 | 5.2       |
| 105 | 8.7  | 32.19       | 27.49     | 0.85 | 2.393    | 13.5 | 40.36        | 114.3 | 5.6       |
| 105 | 9.1  | 32.19       | 27.59     | 0.86 | 2.383    | 13.5 | 40.32        | 113.9 | 6.0       |
| 105 | 10.0 | 32.29       | 27.59     | 0.85 | 2.373    | 13.6 | 40.39        | 113.1 | 7.1       |
| 115 | 5.4  | 29.69       | 26.49     | 0.89 | 2.863    | 10.4 | 39.46        | 129.6 | 2.3       |
| 115 | 6.6  | 29.89       | 26.59     | 0.89 | 2.793    | 10.7 | 39.42        | 126.9 | 3.3       |
| 115 | 7.5  | 29.99       | 26.59     | 0.89 | 2.763    | 10.9 | 39.42        | 125.5 | 4.2       |
| 115 | 8.4  | 30.09       | 26.59     | 0.88 | 2.733    | 11.0 | 39.42        | 124.4 | 5.1       |
| 115 | 8.7  | 30.09       | 26.69     | 0.89 | 2.733    | 11.0 | 39.42        | 124.1 | 5.4       |
| 115 | 9.1  | 30.19       | 26.69     | 0.88 | 2.723    | 11.1 | 39.48        | 123.7 | 5.9       |
| 115 | 10.0 | 30.19       | 26.69     | 0.88 | 2.703    | 11.2 | 39.42        | 122.9 | 6.9       |
| 120 | 5.4  | 28.59       | 25.99     | 0.91 | 3.053    | 9.4  | 39.01        | 134.4 | 2.3       |
| 120 | 6.6  | 28.89       | 26.09     | 0.90 | 2.983    | 9.7  | 39.07        | 131.8 | 3.3       |
| 120 | 7.5  | 28.99       | 26.09     | 0.90 | 2.953    | 9.8  | 39.07        | 130.4 | 4.1       |
| 120 | 8.4  | 28.99       | 26.19     | 0.90 | 2.923    | 9.9  | 38.97        | 129.3 | 5.0       |
| 120 | 8.7  | 29.09       | 26.19     | 0.90 | 2.913    | 10.0 | 39.03        | 129.0 | 5.3       |
| 120 | 9.1  | 29.09       | 26.19     | 0.90 | 2.903    | 10.0 | 39.00        | 128.6 | 5.8       |
| 120 | 10.0 | 29.09       | 26.19     | 0.90 | 2.883    | 10.1 | 38.93        | 127.8 | 6.8       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 8.4, Rated CFM 1140, Minimum CFM 912, Maximum CFM 1254.

**Table 80. Heating capacities 3 tons (gross) - EXHF036**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 25  | 8.4  | 24.80         | 18.22        | 1.928    | 3.8 | 20.7 | 8.7       |
| 25  | 8.7  | 24.90         | 18.32        | 1.928    | 3.8 | 20.8 | 9.3       |
| 25  | 9.1  | 25.00         | 18.42        | 1.928    | 3.8 | 21.0 | 10.0      |
| 25  | 10.0 | 25.10         | 18.52        | 1.928    | 3.8 | 21.3 | 11.8      |
| 32  | 5.4  | 26.40         | 19.79        | 1.938    | 4.0 | 24.7 | 3.9       |
| 32  | 6.6  | 27.00         | 20.35        | 1.948    | 4.1 | 25.8 | 5.6       |
| 32  | 7.5  | 27.30         | 20.62        | 1.958    | 4.1 | 26.5 | 7.0       |
| 32  | 8.4  | 27.50         | 20.82        | 1.958    | 4.1 | 27.0 | 8.5       |
| 32  | 8.7  | 27.60         | 20.92        | 1.958    | 4.1 | 27.2 | 9.0       |
| 32  | 9.1  | 27.70         | 21.02        | 1.958    | 4.1 | 27.4 | 9.7       |
| 32  | 10.0 | 27.80         | 21.12        | 1.958    | 4.2 | 27.8 | 11.5      |
| 45  | 5.4  | 32.70         | 25.68        | 2.058    | 4.7 | 35.5 | 2.9       |
| 45  | 6.6  | 33.50         | 26.41        | 2.078    | 4.7 | 37.0 | 4.1       |
| 45  | 7.5  | 33.70         | 26.61        | 2.078    | 4.8 | 37.9 | 5.1       |
| 45  | 8.4  | 34.10         | 27.01        | 2.078    | 4.8 | 38.6 | 6.3       |
| 45  | 8.7  | 34.20         | 27.11        | 2.078    | 4.8 | 38.8 | 6.7       |



## Performance Data

**Table 80. Heating capacities 3 tons (gross) - EXHF036 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 45  | 9.1  | 34.30         | 27.17        | 2.088    | 4.8 | 39.0 | 7.2       |
| 45  | 10.0 | 34.50         | 27.37        | 2.088    | 4.8 | 39.5 | 8.6       |
| 55  | 5.4  | 37.10         | 29.84        | 2.128    | 5.1 | 43.9 | 2.8       |
| 55  | 6.6  | 38.00         | 30.67        | 2.148    | 5.2 | 45.7 | 3.9       |
| 55  | 7.5  | 38.20         | 30.87        | 2.148    | 5.2 | 46.8 | 4.9       |
| 55  | 8.4  | 38.70         | 31.33        | 2.158    | 5.3 | 47.5 | 6.0       |
| 55  | 8.7  | 38.90         | 31.50        | 2.168    | 5.3 | 47.8 | 6.4       |
| 55  | 9.1  | 38.90         | 31.50        | 2.168    | 5.3 | 48.1 | 7.0       |
| 55  | 10.0 | 39.20         | 31.80        | 2.168    | 5.3 | 48.6 | 8.2       |
| 68  | 5.4  | 43.20         | 35.56        | 2.238    | 5.7 | 54.8 | 2.6       |
| 68  | 6.6  | 44.30         | 36.59        | 2.258    | 5.7 | 56.9 | 3.8       |
| 68  | 7.5  | 44.90         | 37.16        | 2.268    | 5.8 | 58.1 | 4.7       |
| 68  | 8.4  | 45.30         | 37.53        | 2.278    | 5.8 | 59.1 | 5.8       |
| 68  | 8.7  | 45.30         | 37.53        | 2.278    | 5.8 | 59.4 | 6.2       |
| 68  | 9.1  | 45.40         | 37.63        | 2.278    | 5.8 | 59.7 | 6.7       |
| 68  | 10.0 | 45.60         | 37.83        | 2.278    | 5.9 | 60.4 | 7.9       |
| 75  | 5.4  | 46.50         | 38.62        | 2.308    | 5.9 | 60.7 | 2.6       |
| 75  | 6.6  | 47.70         | 39.75        | 2.328    | 6.0 | 63.0 | 3.7       |
| 75  | 7.5  | 48.40         | 40.42        | 2.338    | 6.1 | 64.2 | 4.6       |
| 75  | 8.4  | 48.60         | 40.62        | 2.338    | 6.1 | 65.3 | 5.6       |
| 75  | 8.7  | 48.70         | 40.72        | 2.338    | 6.1 | 65.6 | 6.0       |
| 75  | 9.1  | 49.10         | 41.09        | 2.348    | 6.1 | 66.0 | 6.5       |
| 75  | 10.0 | 49.40         | 41.35        | 2.358    | 6.1 | 66.7 | 7.6       |
| 77  | 5.4  | 51.00         | 42.78        | 2.408    | 6.2 | 61.2 | 2.5       |
| 77  | 6.6  | 52.30         | 43.98        | 2.438    | 6.3 | 63.7 | 3.6       |
| 77  | 7.5  | 52.90         | 44.54        | 2.448    | 6.3 | 65.1 | 4.5       |
| 77  | 8.4  | 53.30         | 44.94        | 2.448    | 6.4 | 66.3 | 5.5       |
| 77  | 8.7  | 53.50         | 45.11        | 2.458    | 6.4 | 66.6 | 5.9       |
| 77  | 9.1  | 53.80         | 45.41        | 2.458    | 6.4 | 67.0 | 6.3       |
| 77  | 10.0 | 54.10         | 45.68        | 2.468    | 6.4 | 67.9 | 7.5       |
| 86  | 5.4  | 52.00         | 43.71        | 2.428    | 6.3 | 69.8 | 2.5       |
| 86  | 6.6  | 53.30         | 44.91        | 2.458    | 6.4 | 72.4 | 3.6       |
| 86  | 7.5  | 53.90         | 45.48        | 2.468    | 6.4 | 73.9 | 4.5       |
| 86  | 8.4  | 54.40         | 45.94        | 2.478    | 6.4 | 75.1 | 5.5       |
| 86  | 8.7  | 54.60         | 46.11        | 2.488    | 6.4 | 75.4 | 5.9       |
| 86  | 9.1  | 54.80         | 46.31        | 2.488    | 6.5 | 75.8 | 6.3       |
| 86  | 10.0 | 55.10         | 46.57        | 2.498    | 6.5 | 76.7 | 7.5       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 8.4, Rated CFM 1140, Minimum CFM 912, Maximum CFM 1254.



**Table 81. Heating capacities 3 tons (gross) - EXHF036**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 25  | 8.4  | 24.80         | 18.22        | 1.928    | 3.8 | 20.7 | 8.7       |
| 25  | 8.7  | 24.90         | 18.32        | 1.928    | 3.8 | 20.8 | 9.3       |
| 25  | 9.1  | 25.00         | 18.42        | 1.928    | 3.8 | 21.0 | 10.0      |
| 25  | 10.0 | 25.10         | 18.52        | 1.928    | 3.8 | 21.3 | 11.8      |
| 32  | 5.4  | 26.40         | 19.79        | 1.938    | 4.0 | 24.7 | 3.9       |
| 32  | 6.6  | 27.00         | 20.35        | 1.948    | 4.1 | 25.8 | 5.6       |
| 32  | 7.5  | 27.30         | 20.62        | 1.958    | 4.1 | 26.5 | 7.0       |
| 32  | 8.4  | 27.50         | 20.82        | 1.958    | 4.1 | 27.0 | 8.5       |
| 32  | 8.7  | 27.60         | 20.92        | 1.958    | 4.1 | 27.2 | 9.0       |
| 32  | 9.1  | 27.70         | 21.02        | 1.958    | 4.1 | 27.4 | 9.7       |
| 32  | 10.0 | 27.80         | 21.12        | 1.958    | 4.2 | 27.8 | 11.5      |
| 45  | 5.4  | 32.70         | 25.68        | 2.058    | 4.7 | 35.5 | 2.9       |
| 45  | 6.6  | 33.50         | 26.41        | 2.078    | 4.7 | 37.0 | 4.1       |
| 45  | 7.5  | 33.70         | 26.61        | 2.078    | 4.8 | 37.9 | 5.1       |
| 45  | 8.4  | 34.10         | 27.01        | 2.078    | 4.8 | 38.6 | 6.3       |
| 45  | 8.7  | 34.20         | 27.11        | 2.078    | 4.8 | 38.8 | 6.7       |
| 45  | 9.1  | 34.30         | 27.17        | 2.088    | 4.8 | 39.0 | 7.2       |
| 45  | 10.0 | 34.50         | 27.37        | 2.088    | 4.8 | 39.5 | 8.6       |
| 55  | 5.4  | 37.10         | 29.84        | 2.128    | 5.1 | 43.9 | 2.8       |
| 55  | 6.6  | 38.00         | 30.67        | 2.148    | 5.2 | 45.7 | 3.9       |
| 55  | 7.5  | 38.20         | 30.87        | 2.148    | 5.2 | 46.8 | 4.9       |
| 55  | 8.4  | 38.70         | 31.33        | 2.158    | 5.3 | 47.5 | 6.0       |
| 55  | 8.7  | 38.90         | 31.50        | 2.168    | 5.3 | 47.8 | 6.4       |
| 55  | 9.1  | 38.90         | 31.50        | 2.168    | 5.3 | 48.1 | 7.0       |
| 55  | 10.0 | 39.20         | 31.80        | 2.168    | 5.3 | 48.6 | 8.2       |
| 68  | 5.4  | 43.20         | 35.56        | 2.238    | 5.7 | 54.8 | 2.6       |
| 68  | 6.6  | 44.30         | 36.59        | 2.258    | 5.7 | 56.9 | 3.8       |
| 68  | 7.5  | 44.90         | 37.16        | 2.268    | 5.8 | 58.1 | 4.7       |
| 68  | 8.4  | 45.30         | 37.53        | 2.278    | 5.8 | 59.1 | 5.8       |
| 68  | 8.7  | 45.30         | 37.53        | 2.278    | 5.8 | 59.4 | 6.2       |
| 68  | 9.1  | 45.40         | 37.63        | 2.278    | 5.8 | 59.7 | 6.7       |
| 68  | 10.0 | 45.60         | 37.83        | 2.278    | 5.9 | 60.4 | 7.9       |
| 75  | 5.4  | 46.50         | 38.62        | 2.308    | 5.9 | 60.7 | 2.6       |
| 75  | 6.6  | 47.70         | 39.75        | 2.328    | 6.0 | 63.0 | 3.7       |
| 75  | 7.5  | 48.40         | 40.42        | 2.338    | 6.1 | 64.2 | 4.6       |
| 75  | 8.4  | 48.60         | 40.62        | 2.338    | 6.1 | 65.3 | 5.6       |
| 75  | 8.7  | 48.70         | 40.72        | 2.338    | 6.1 | 65.6 | 6.0       |
| 75  | 9.1  | 49.10         | 41.09        | 2.348    | 6.1 | 66.0 | 6.5       |
| 75  | 10.0 | 49.40         | 41.35        | 2.358    | 6.1 | 66.7 | 7.6       |
| 77  | 5.4  | 51.00         | 42.78        | 2.408    | 6.2 | 61.2 | 2.5       |
| 77  | 6.6  | 52.30         | 43.98        | 2.438    | 6.3 | 63.7 | 3.6       |
| 77  | 7.5  | 52.90         | 44.54        | 2.448    | 6.3 | 65.1 | 4.5       |
| 77  | 8.4  | 53.30         | 44.94        | 2.448    | 6.4 | 66.3 | 5.5       |



## Performance Data

**Table 81. Heating capacities 3 tons (gross) - EXHF036 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 77  | 8.7  | 53.50         | 45.11        | 2.458    | 6.4 | 66.6 | 5.9       |
| 77  | 9.1  | 53.80         | 45.41        | 2.458    | 6.4 | 67.0 | 6.3       |
| 77  | 10.0 | 54.10         | 45.68        | 2.468    | 6.4 | 67.9 | 7.5       |
| 86  | 5.4  | 52.00         | 43.71        | 2.428    | 6.3 | 69.8 | 2.5       |
| 86  | 6.6  | 53.30         | 44.91        | 2.458    | 6.4 | 72.4 | 3.6       |
| 86  | 7.5  | 53.90         | 45.48        | 2.468    | 6.4 | 73.9 | 4.5       |
| 86  | 8.4  | 54.40         | 45.94        | 2.478    | 6.4 | 75.1 | 5.5       |
| 86  | 8.7  | 54.60         | 46.11        | 2.488    | 6.4 | 75.4 | 5.9       |
| 86  | 9.1  | 54.80         | 46.31        | 2.488    | 6.5 | 75.8 | 6.3       |
| 86  | 10.0 | 55.10         | 46.57        | 2.498    | 6.5 | 76.7 | 7.5       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 3.6, Rated CFM 475, Minimum CFM 523, Maximum CFM 380.

**Table 82. Fan correction 3 tons EXHF036**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 912          | 0.959            | 0.875             | 1.001              | 0.982            | 1.085              |
| 1026         | 0.982            | 0.940             | 1.000              | 0.990            | 1.036              |
| 1140         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1254         | 1.016            | 1.056             | 1.000              | 1.000            | 0.967              |

**Table 83. Correction factors for variation in entering air temperature 3 tons, EXHF036**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.942               | 1.002                     | 0.969                                     | 1.034 | 1.100 | *     | *     | 53.0                            | 1.030               | 0.854                  |
| 56.3                            | 0.942               | 1.002                     | 0.803                                     | 1.016 | 1.099 | *     | *     | 58.0                            | 1.019               | 0.899                  |
| 60.3                            | 0.941               | 1.002                     | 0.605                                     | 0.836 | 1.058 | *     | *     | 63.0                            | 1.007               | 0.946                  |
| 63.2                            | 0.957               | 1.001                     | 0.459                                     | 0.691 | 0.920 | 1.135 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.538 | 0.769 | 1.000 | 1.207 | 73.0                            | 0.982               | 1.047                  |
| 72.1                            | 1.093               | 0.993                     | —   | —     | 0.462 | 0.694 | 0.922 | 78.0                            | 0.974               | 1.105                  |
| 77.1                            | 1.174               | 0.990                     | —   | —     | —     | 0.425 | 0.655 | 83.0                            | 0.958               | 1.157                  |

**Note:** \* = Sensible equals total capacity

**Table 84. Cooling capacities 3 tons (gross) - EXVG036**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------------|--------------|------|-----------|
| 45  | 5.9  | 41.4        | 32.9      | 0.79 | 1.32           | 45.9         | 60.6 | 3.3       |
| 45  | 7.2  | 41.4        | 32.9      | 0.79 | 1.31           | 45.9         | 57.8 | 4.7       |
| 45  | 8.1  | 41.5        | 33.0      | 0.80 | 1.30           | 45.9         | 56.3 | 5.8       |
| 45  | 9.0  | 41.5        | 33.0      | 0.80 | 1.30           | 45.9         | 55.2 | 7.0       |
| 45  | 9.5  | 41.5        | 33.0      | 0.80 | 1.30           | 45.9         | 54.7 | 7.7       |
| 45  | 9.9  | 41.5        | 33.0      | 0.80 | 1.30           | 45.9         | 54.3 | 8.3       |
| 45  | 10.8 | 41.6        | 33.1      | 0.80 | 1.30           | 46.0         | 53.5 | 9.7       |
| 55  | 5.9  | 40.7        | 32.4      | 0.80 | 1.42           | 45.5         | 70.4 | 3.0       |
| 55  | 7.2  | 40.8        | 32.5      | 0.80 | 1.39           | 45.5         | 67.6 | 4.3       |

**Table 84. Cooling capacities 3 tons (gross) - EXVG036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 55  | 8.1  | 40.8        | 32.5      | 0.80 | 1.37        | 45.5         | 66.2  | 5.4       |
| 55  | 9.0  | 40.9        | 32.6      | 0.80 | 1.36        | 45.6         | 65.1  | 6.5       |
| 55  | 9.5  | 40.9        | 32.6      | 0.80 | 1.36        | 45.5         | 64.6  | 7.2       |
| 55  | 9.9  | 40.9        | 32.6      | 0.80 | 1.36        | 45.5         | 64.2  | 7.7       |
| 55  | 10.8 | 40.9        | 32.6      | 0.80 | 1.35        | 45.5         | 63.4  | 9.0       |
| 68  | 5.9  | 39.3        | 31.8      | 0.81 | 1.62        | 44.8         | 83.2  | 2.9       |
| 68  | 7.2  | 39.4        | 31.8      | 0.81 | 1.58        | 44.8         | 80.4  | 4.1       |
| 68  | 8.1  | 39.4        | 31.8      | 0.81 | 1.56        | 44.7         | 79.0  | 5.0       |
| 68  | 9.0  | 39.5        | 31.9      | 0.81 | 1.55        | 44.8         | 78.0  | 6.1       |
| 68  | 9.5  | 39.5        | 31.9      | 0.81 | 1.54        | 44.8         | 77.4  | 6.7       |
| 68  | 9.9  | 39.5        | 31.9      | 0.81 | 1.53        | 44.7         | 77.0  | 7.2       |
| 68  | 10.8 | 39.5        | 31.9      | 0.81 | 1.52        | 44.7         | 76.3  | 8.4       |
| 75  | 5.9  | 38.3        | 31.4      | 0.82 | 1.77        | 44.3         | 90.0  | 2.9       |
| 75  | 7.2  | 38.4        | 31.4      | 0.82 | 1.72        | 44.3         | 87.3  | 4.0       |
| 75  | 8.1  | 38.4        | 31.4      | 0.82 | 1.70        | 44.2         | 85.9  | 4.9       |
| 75  | 9.0  | 38.5        | 31.5      | 0.82 | 1.68        | 44.2         | 84.8  | 5.9       |
| 75  | 9.5  | 38.5        | 31.5      | 0.82 | 1.67        | 44.2         | 84.3  | 6.5       |
| 75  | 9.9  | 38.5        | 31.5      | 0.82 | 1.67        | 44.2         | 83.9  | 7.0       |
| 75  | 10.8 | 38.5        | 31.5      | 0.82 | 1.66        | 44.2         | 83.2  | 8.2       |
| 86  | 5.9  | 36.6        | 30.7      | 0.84 | 2.03        | 43.5         | 100.7 | 2.9       |
| 86  | 7.2  | 36.7        | 30.8      | 0.84 | 1.98        | 43.5         | 98.1  | 4.0       |
| 86  | 8.1  | 36.7        | 30.8      | 0.84 | 1.95        | 43.4         | 96.7  | 4.8       |
| 86  | 9.0  | 36.8        | 30.8      | 0.84 | 1.93        | 43.4         | 95.6  | 5.8       |
| 86  | 9.5  | 36.8        | 30.8      | 0.84 | 1.93        | 43.4         | 95.1  | 6.3       |
| 86  | 9.9  | 36.8        | 30.8      | 0.84 | 1.92        | 43.3         | 94.7  | 6.8       |
| 86  | 10.8 | 36.8        | 30.8      | 0.84 | 1.91        | 43.3         | 94.0  | 7.9       |
| 95  | 5.9  | 35.2        | 30.1      | 0.86 | 2.27        | 42.9         | 109.5 | 2.9       |
| 95  | 7.2  | 35.3        | 30.1      | 0.85 | 2.22        | 42.9         | 106.9 | 3.9       |
| 95  | 8.1  | 35.3        | 30.1      | 0.85 | 2.19        | 42.8         | 105.6 | 4.8       |
| 95  | 9.0  | 35.3        | 30.1      | 0.85 | 2.17        | 42.7         | 104.5 | 5.7       |
| 95  | 9.5  | 35.4        | 30.2      | 0.85 | 2.16        | 42.8         | 104.0 | 6.3       |
| 95  | 9.9  | 35.4        | 30.2      | 0.85 | 2.15        | 42.7         | 103.6 | 6.7       |
| 95  | 10.8 | 35.4        | 30.2      | 0.85 | 2.14        | 42.7         | 102.9 | 7.8       |
| 105 | 5.9  | 33.4        | 29.3      | 0.88 | 2.55        | 42.1         | 119.3 | 2.8       |
| 105 | 7.2  | 33.5        | 29.3      | 0.87 | 2.50        | 42.0         | 116.7 | 3.9       |
| 105 | 8.1  | 33.6        | 29.4      | 0.87 | 2.47        | 42.0         | 115.4 | 4.7       |
| 105 | 9.0  | 33.6        | 29.4      | 0.87 | 2.45        | 42.0         | 114.3 | 5.6       |
| 105 | 9.5  | 33.6        | 29.4      | 0.87 | 2.44        | 41.9         | 113.8 | 6.2       |
| 105 | 9.9  | 33.6        | 29.4      | 0.87 | 2.43        | 41.9         | 113.5 | 6.6       |
| 105 | 10.8 | 33.7        | 29.5      | 0.88 | 2.42        | 42.0         | 112.8 | 7.7       |
| 115 | 5.9  | 31.5        | 28.5      | 0.90 | 2.86        | 41.2         | 129.0 | 2.7       |



## Performance Data

**Table 84. Cooling capacities 3 tons (gross) - EXVG036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 115 | 7.2  | 31.5        | 28.5      | 0.90 | 2.80        | 41.1         | 126.4 | 3.8       |
| 115 | 8.1  | 31.6        | 28.6      | 0.91 | 2.77        | 41.1         | 125.1 | 4.6       |
| 115 | 9.0  | 31.6        | 28.6      | 0.91 | 2.75        | 41.0         | 124.1 | 5.5       |
| 115 | 9.5  | 31.6        | 28.6      | 0.91 | 2.74        | 41.0         | 123.6 | 6.0       |
| 115 | 9.9  | 31.6        | 28.6      | 0.91 | 2.73        | 40.9         | 123.3 | 6.5       |
| 115 | 10.8 | 31.7        | 28.6      | 0.90 | 2.72        | 41.0         | 122.6 | 7.5       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHR/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 9; Minimum CFM 912; Rated CFM 1140; Maximum CFM 1368.

**Table 85. Heating capacities 3 tons (gross) - EXVG036**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 5.9  | 23.1          | 17.0         | 1.78        | 19.2 | 4.2       |
| 25  | 7.2  | 23.5          | 17.4         | 1.79        | 20.2 | 5.9       |
| 25  | 8.1  | 23.7          | 17.6         | 1.79        | 20.7 | 7.3       |
| 25  | 9.0  | 23.9          | 17.8         | 1.79        | 21.0 | 8.7       |
| 25  | 9.5  | 24.0          | 17.9         | 1.79        | 21.2 | 9.5       |
| 25  | 9.9  | 24.0          | 17.9         | 1.79        | 21.4 | 10.2      |
| 25  | 10.8 | 24.2          | 18.1         | 1.79        | 21.6 | 11.9      |
| 32  | 5.9  | 25.8          | 19.6         | 1.82        | 25.4 | 3.8       |
| 32  | 7.2  | 26.3          | 20.1         | 1.83        | 26.4 | 5.4       |
| 32  | 8.1  | 26.5          | 20.2         | 1.83        | 27.0 | 6.6       |
| 32  | 9.0  | 26.7          | 20.4         | 1.84        | 27.5 | 8.0       |
| 32  | 9.5  | 26.8          | 20.5         | 1.84        | 27.7 | 8.8       |
| 32  | 9.9  | 26.9          | 20.6         | 1.84        | 27.8 | 9.4       |
| 32  | 10.8 | 27.1          | 20.8         | 1.84        | 28.1 | 11.0      |
| 45  | 5.9  | 31.2          | 24.7         | 1.90        | 36.6 | 3.3       |
| 45  | 7.2  | 31.9          | 25.4         | 1.91        | 37.9 | 4.7       |
| 45  | 8.1  | 32.2          | 25.7         | 1.92        | 38.7 | 5.8       |
| 45  | 9.0  | 32.5          | 25.9         | 1.92        | 39.2 | 7.0       |
| 45  | 9.5  | 32.7          | 26.1         | 1.93        | 39.5 | 7.7       |
| 45  | 9.9  | 32.8          | 26.2         | 1.93        | 39.7 | 8.3       |
| 45  | 10.8 | 33.0          | 26.4         | 1.93        | 40.1 | 9.7       |
| 55  | 5.9  | 35.6          | 28.9         | 1.97        | 45.2 | 3.0       |
| 55  | 7.2  | 36.4          | 29.6         | 1.98        | 46.8 | 4.3       |
| 55  | 8.1  | 36.8          | 30.0         | 1.99        | 47.6 | 5.4       |
| 55  | 9.0  | 37.2          | 30.4         | 2.00        | 48.2 | 6.5       |
| 55  | 9.5  | 37.3          | 30.5         | 2.00        | 48.6 | 7.2       |
| 55  | 9.9  | 37.5          | 30.7         | 2.00        | 48.8 | 7.7       |
| 55  | 10.8 | 37.7          | 30.9         | 2.01        | 49.3 | 9.0       |
| 68  | 5.9  | 41.3          | 34.3         | 2.07        | 56.4 | 2.9       |
| 68  | 7.2  | 42.3          | 35.2         | 2.09        | 58.2 | 4.1       |

**Table 85. Heating capacities 3 tons (gross) - EXVG036 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 68  | 8.1  | 42.9          | 35.7         | 2.10        | 59.2 | 5.0       |
| 68  | 9.0  | 43.3          | 36.1         | 2.11        | 60.0 | 6.1       |
| 68  | 9.5  | 43.5          | 36.3         | 2.11        | 60.4 | 6.7       |
| 68  | 9.9  | 43.7          | 36.5         | 2.11        | 60.6 | 7.2       |
| 68  | 10.8 | 44.0          | 36.8         | 2.12        | 61.2 | 8.4       |
| 75  | 5.9  | 44.4          | 37.1         | 2.13        | 62.4 | 2.9       |
| 75  | 7.2  | 45.5          | 38.2         | 2.15        | 64.4 | 4.0       |
| 75  | 8.1  | 46.1          | 38.7         | 2.16        | 65.4 | 4.9       |
| 75  | 9.0  | 46.6          | 39.2         | 2.17        | 66.3 | 5.9       |
| 75  | 9.5  | 46.8          | 39.4         | 2.18        | 66.7 | 6.5       |
| 75  | 9.9  | 47.0          | 39.6         | 2.18        | 67.0 | 7.0       |
| 75  | 10.8 | 47.3          | 39.8         | 2.19        | 67.6 | 8.2       |
| 86  | 5.9  | 49.3          | 41.7         | 2.24        | 71.9 | 2.9       |
| 86  | 7.2  | 50.5          | 42.8         | 2.27        | 74.1 | 4.0       |
| 86  | 8.1  | 51.2          | 43.4         | 2.29        | 75.3 | 4.8       |
| 86  | 9.0  | 51.7          | 43.9         | 2.30        | 76.2 | 5.8       |
| 86  | 9.5  | 52.0          | 44.1         | 2.30        | 76.7 | 6.3       |
| 86  | 9.9  | 52.2          | 44.3         | 2.31        | 77.1 | 6.8       |
| 86  | 10.8 | 52.6          | 44.7         | 2.32        | 77.7 | 7.9       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 9; Minimum CFM 912; Rated CFM 1140; Maximum CFM 1368.

**Table 86. Fan correction 3 tons EXVG036**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 912          | 0.961            | 0.875             | 0.998               | 0.980            | 1.088               |
| 969          | 0.973            | 0.907             | 0.999               | 0.986            | 1.062               |
| 1026         | 0.983            | 0.938             | 0.999               | 0.992            | 1.039               |
| 1083         | 0.992            | 0.969             | 1.000               | 0.996            | 1.018               |
| 1140         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1254         | 1.015            | 1.062             | 1.001               | 1.006            | 0.968               |
| 1311         | 1.022            | 1.093             | 1.001               | 1.009            | 0.955               |
| 1368         | 1.029            | 1.123             | 1.002               | 1.012            | 0.942               |

**Table 87. Correction factors for variation in entering air temperature 3 tons, EXVG036**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.893               | 0.996                     | 0.937                                     | 1.011 | 1.073 | *     | *     | 53.0                            | 1.037               | 0.848                  |
| 56.3                            | 0.894               | 0.996                     | 0.811                                     | 0.952 | 1.057 | *     | *     | 58.0                            | 1.026               | 0.897                  |
| 60.3                            | 0.910               | 0.996                     | 0.662                                     | 0.855 | 0.999 | 1.112 | *     | 63.0                            | 1.014               | 0.947                  |
| 63.2                            | 0.953               | 0.998                     | 0.516                                     | 0.752 | 0.930 | 1.068 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.615 | 0.832 | 1.000 | 1.135 | 73.0                            | 0.985               | 1.056                  |
| 72.1                            | 1.111               | 1.008                     | —   | —     | 0.559 | 0.795 | 0.985 | 78.0                            | 0.969               | 1.113                  |



## Performance Data

**Table 87. Correction factors for variation in entering air temperature 3 tons, EXVG036 (continued)**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |      |      |      |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|------|------|------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6 | 75.6 | 80.6 | 85.6  |                                 |                     |                        |
| 77.1                            | 1.210               | 1.020                     | —   | —    | —    | —    | 0.789 | 83.0                            | 0.953               | 1.173                  |

Note: \* = Sensible equals total capacity

**Table 88. Cooling capacities 3 tons (gross) - DXHF036**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 45  | 5.5  | 44.6        | 29.3      | 0.66 | 1.46     | 49.6         | 63.0  | 3.4       |
| 45  | 6.7  | 44.8        | 29.4      | 0.66 | 1.42     | 49.6         | 59.8  | 4.7       |
| 45  | 7.6  | 44.9        | 29.5      | 0.66 | 1.40     | 49.7         | 58.1  | 5.7       |
| 45  | 8.4  | 45.0        | 29.6      | 0.66 | 1.39     | 49.7         | 56.8  | 6.6       |
| 45  | 8.8  | 45.0        | 29.6      | 0.66 | 1.38     | 49.7         | 56.3  | 7.2       |
| 45  | 9.2  | 45.1        | 29.6      | 0.66 | 1.38     | 49.8         | 55.8  | 7.7       |
| 45  | 10.1 | 45.1        | 29.6      | 0.66 | 1.37     | 49.8         | 54.9  | 8.8       |
| 55  | 5.5  | 44.3        | 29.8      | 0.67 | 1.61     | 49.8         | 73.1  | 2.9       |
| 55  | 6.7  | 44.5        | 29.9      | 0.67 | 1.56     | 49.8         | 69.9  | 4.1       |
| 55  | 7.6  | 44.6        | 30.0      | 0.67 | 1.54     | 49.9         | 68.1  | 5.1       |
| 55  | 8.4  | 44.6        | 30.0      | 0.67 | 1.53     | 49.8         | 66.9  | 6.1       |
| 55  | 8.8  | 44.7        | 30.0      | 0.67 | 1.52     | 49.9         | 66.3  | 6.6       |
| 55  | 9.2  | 44.7        | 30.0      | 0.67 | 1.52     | 49.9         | 65.8  | 7.2       |
| 55  | 10.1 | 44.7        | 30.0      | 0.67 | 1.51     | 49.8         | 64.9  | 8.3       |
| 65  | 5.5  | 42.9        | 29.4      | 0.69 | 1.79     | 49.0         | 82.8  | 2.6       |
| 65  | 6.7  | 43.1        | 29.6      | 0.69 | 1.74     | 49.0         | 79.6  | 3.8       |
| 65  | 7.6  | 43.2        | 29.6      | 0.69 | 1.71     | 49.0         | 77.9  | 4.8       |
| 65  | 8.4  | 43.3        | 29.7      | 0.69 | 1.69     | 49.1         | 76.7  | 5.8       |
| 65  | 8.8  | 43.3        | 29.7      | 0.69 | 1.69     | 49.1         | 76.2  | 6.3       |
| 65  | 9.2  | 43.4        | 29.8      | 0.69 | 1.68     | 49.1         | 75.7  | 6.8       |
| 65  | 10.1 | 43.4        | 29.8      | 0.69 | 1.67     | 49.1         | 74.7  | 7.9       |
| 75  | 5.5  | 41.2        | 28.8      | 0.70 | 1.99     | 48.0         | 92.5  | 2.4       |
| 75  | 6.7  | 41.4        | 29.0      | 0.70 | 1.93     | 48.0         | 89.3  | 3.6       |
| 75  | 7.6  | 41.5        | 29.1      | 0.70 | 1.91     | 48.0         | 87.6  | 4.6       |
| 75  | 8.4  | 41.6        | 29.1      | 0.70 | 1.89     | 48.0         | 86.4  | 5.6       |
| 75  | 8.8  | 41.6        | 29.1      | 0.70 | 1.88     | 48.0         | 85.9  | 6.1       |
| 75  | 9.2  | 41.6        | 29.1      | 0.70 | 1.87     | 48.0         | 85.4  | 6.6       |
| 75  | 10.1 | 41.7        | 29.2      | 0.70 | 1.86     | 48.0         | 84.5  | 7.7       |
| 85  | 5.5  | 39.3        | 28.1      | 0.72 | 2.23     | 46.9         | 102.1 | 2.2       |
| 85  | 6.7  | 39.5        | 28.2      | 0.71 | 2.16     | 46.9         | 99.0  | 3.5       |
| 85  | 7.6  | 39.6        | 28.3      | 0.71 | 2.13     | 46.9         | 97.3  | 4.5       |
| 85  | 8.4  | 39.7        | 28.4      | 0.72 | 2.11     | 46.9         | 96.2  | 5.4       |
| 85  | 8.8  | 39.8        | 28.5      | 0.72 | 2.10     | 47.0         | 95.7  | 6.0       |
| 85  | 9.2  | 39.8        | 28.5      | 0.72 | 2.09     | 46.9         | 95.2  | 6.5       |
| 85  | 10.1 | 39.8        | 28.5      | 0.72 | 2.08     | 46.9         | 94.3  | 7.6       |
| 95  | 5.5  | 37.4        | 27.4      | 0.73 | 2.49     | 45.9         | 111.7 | 2.1       |
| 95  | 6.7  | 37.6        | 27.5      | 0.73 | 2.42     | 45.9         | 108.7 | 3.4       |

**Table 88. Cooling capacities 3 tons (gross) - DXHF036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 95  | 7.6  | 37.7        | 27.6      | 0.73 | 2.39     | 45.9         | 107.1 | 4.4       |
| 95  | 8.4  | 37.8        | 27.7      | 0.73 | 2.37     | 45.9         | 105.9 | 5.4       |
| 95  | 8.8  | 37.8        | 27.7      | 0.73 | 2.36     | 45.8         | 105.4 | 5.9       |
| 95  | 9.2  | 37.8        | 27.7      | 0.73 | 2.35     | 45.8         | 105.0 | 6.4       |
| 95  | 10.1 | 37.9        | 27.7      | 0.73 | 2.33     | 45.9         | 104.1 | 7.5       |
| 105 | 5.5  | 35.3        | 26.6      | 0.75 | 2.78     | 44.8         | 121.3 | 2.1       |
| 105 | 6.7  | 35.5        | 26.7      | 0.75 | 2.72     | 44.8         | 118.4 | 3.3       |
| 105 | 7.6  | 35.6        | 26.8      | 0.75 | 2.68     | 44.8         | 116.8 | 4.3       |
| 105 | 8.4  | 35.7        | 26.9      | 0.75 | 2.66     | 44.8         | 115.7 | 5.3       |
| 105 | 8.8  | 35.7        | 26.9      | 0.75 | 2.65     | 44.7         | 115.2 | 5.8       |
| 105 | 9.2  | 35.7        | 26.9      | 0.75 | 2.64     | 44.7         | 114.7 | 6.3       |
| 105 | 10.1 | 35.8        | 27.0      | 0.75 | 2.62     | 44.7         | 113.9 | 7.4       |
| 115 | 5.5  | 33.0        | 25.7      | 0.78 | 3.12     | 43.6         | 130.9 | 2.1       |
| 115 | 6.7  | 33.2        | 25.9      | 0.78 | 3.05     | 43.6         | 128.0 | 3.3       |
| 115 | 7.6  | 33.3        | 25.9      | 0.78 | 3.01     | 43.6         | 126.5 | 4.3       |
| 115 | 8.4  | 33.3        | 25.9      | 0.78 | 2.99     | 43.5         | 125.4 | 5.3       |
| 115 | 8.8  | 33.4        | 26.0      | 0.78 | 2.97     | 43.6         | 124.9 | 5.8       |
| 115 | 9.2  | 33.4        | 26.0      | 0.78 | 2.96     | 43.5         | 124.5 | 6.3       |
| 115 | 10.1 | 33.4        | 26.0      | 0.78 | 2.95     | 43.5         | 123.6 | 7.4       |
| 120 | 5.5  | 31.7        | 25.2      | 0.79 | 3.30     | 42.9         | 135.6 | 2.0       |
| 120 | 6.7  | 31.9        | 25.3      | 0.79 | 3.23     | 42.9         | 132.8 | 3.3       |
| 120 | 7.6  | 32.0        | 25.4      | 0.79 | 3.19     | 42.9         | 131.3 | 4.3       |
| 120 | 8.4  | 32.1        | 25.5      | 0.79 | 3.16     | 42.9         | 130.2 | 5.2       |
| 120 | 8.8  | 32.1        | 25.5      | 0.79 | 3.15     | 42.9         | 129.8 | 5.8       |
| 120 | 9.2  | 32.2        | 25.6      | 0.80 | 3.14     | 42.9         | 129.3 | 6.3       |
| 120 | 10.1 | 32.2        | 25.6      | 0.80 | 3.12     | 42.9         | 128.5 | 7.4       |

**Note:** Cooling performance data is tabulated at 80°F DB/67°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 8.4, Rated CFM 1140, Minimum CFM 912, Maximum CFM 1254.

**Table 89. Heating capacities 3 tons (gross) - DXHF036**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 25  | 8.4  | 26.1          | 19.3         | 1.99     | 20.4 | 8.6       |
| 25  | 8.8  | 26.3          | 19.5         | 2.00     | 20.6 | 9.1       |
| 25  | 9.2  | 26.5          | 19.7         | 2.00     | 20.7 | 9.7       |
| 25  | 10.1 | 27.0          | 20.1         | 2.02     | 21.0 | 10.8      |
| 35  | 5.5  | 28.7          | 21.6         | 2.09     | 27.1 | 4.3       |
| 35  | 6.7  | 30.0          | 22.7         | 2.14     | 28.2 | 5.5       |
| 35  | 7.6  | 30.6          | 23.3         | 2.15     | 28.9 | 6.5       |
| 35  | 8.4  | 31.1          | 23.7         | 2.17     | 29.4 | 7.5       |
| 35  | 8.8  | 31.3          | 23.9         | 2.18     | 29.6 | 8.0       |
| 35  | 9.2  | 31.5          | 24.0         | 2.18     | 29.8 | 8.6       |
| 35  | 10.1 | 31.9          | 24.4         | 2.20     | 30.2 | 9.7       |
| 45  | 5.5  | 35.3          | 27.8         | 2.20     | 34.9 | 3.4       |



## Performance Data

**Table 89. Heating capacities 3 tons (gross) - DXHF036 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 45  | 6.7  | 36.6          | 28.9         | 2.25     | 36.4 | 4.7       |
| 45  | 7.6  | 37.2          | 29.5         | 2.27     | 37.2 | 5.7       |
| 45  | 8.4  | 37.7          | 29.9         | 2.28     | 37.9 | 6.6       |
| 45  | 8.8  | 37.9          | 30.1         | 2.29     | 38.2 | 7.2       |
| 45  | 9.2  | 38.1          | 30.3         | 2.29     | 38.4 | 7.7       |
| 45  | 10.1 | 38.6          | 30.7         | 2.31     | 38.9 | 8.8       |
| 55  | 5.5  | 40.2          | 32.1         | 2.37     | 43.3 | 2.9       |
| 55  | 6.7  | 41.5          | 33.3         | 2.41     | 45.1 | 4.1       |
| 55  | 7.6  | 42.1          | 33.8         | 2.43     | 46.1 | 5.1       |
| 55  | 8.4  | 42.6          | 34.3         | 2.45     | 46.8 | 6.1       |
| 55  | 8.8  | 42.8          | 34.4         | 2.45     | 47.2 | 6.6       |
| 55  | 9.2  | 43.0          | 34.6         | 2.46     | 47.5 | 7.2       |
| 55  | 10.1 | 43.5          | 35.0         | 2.48     | 48.1 | 8.3       |
| 65  | 5.5  | 44.2          | 35.5         | 2.55     | 52.1 | 2.6       |
| 65  | 6.7  | 45.5          | 36.6         | 2.60     | 54.1 | 3.8       |
| 65  | 7.6  | 46.1          | 37.2         | 2.61     | 55.2 | 4.8       |
| 65  | 8.4  | 46.6          | 37.6         | 2.63     | 56.0 | 5.8       |
| 65  | 8.8  | 46.8          | 37.8         | 2.64     | 56.4 | 6.3       |
| 65  | 9.2  | 47.0          | 38.0         | 2.64     | 56.7 | 6.8       |
| 65  | 10.1 | 47.5          | 38.4         | 2.66     | 57.4 | 7.9       |
| 75  | 5.5  | 49.2          | 40.0         | 2.71     | 60.5 | 2.4       |
| 75  | 6.7  | 50.5          | 41.1         | 2.75     | 62.7 | 3.6       |
| 75  | 7.6  | 51.1          | 41.7         | 2.77     | 64.0 | 4.6       |
| 75  | 8.4  | 51.6          | 42.1         | 2.79     | 65.0 | 5.6       |
| 75  | 8.8  | 51.8          | 42.3         | 2.79     | 65.4 | 6.1       |
| 75  | 9.2  | 52.0          | 42.5         | 2.80     | 65.8 | 6.6       |
| 75  | 10.1 | 52.4          | 42.8         | 2.82     | 66.5 | 7.7       |
| 85  | 5.5  | 54.6          | 44.8         | 2.87     | 68.7 | 2.2       |
| 85  | 6.7  | 55.9          | 46.0         | 2.91     | 71.3 | 3.5       |
| 85  | 7.6  | 56.5          | 46.5         | 2.93     | 72.8 | 4.5       |
| 85  | 8.4  | 57.0          | 46.9         | 2.95     | 73.8 | 5.4       |
| 85  | 8.8  | 57.2          | 47.1         | 2.95     | 74.3 | 6.0       |
| 85  | 9.2  | 57.4          | 47.3         | 2.96     | 74.7 | 6.5       |
| 85  | 10.1 | 57.9          | 47.7         | 2.98     | 75.6 | 7.6       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 8.4, Rated CFM 1140, Minimum CFM 912, Maximum CFM 1254.

**Table 90. Fan correction 3 tons DXHF036**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 912          | 0.958            | 0.884             | 0.996              | 0.986            | 1.105              |
| 1026         | 0.981            | 0.943             | 0.998              | 0.994            | 1.045              |
| 1140         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1254         | 1.016            | 1.054             | 1.002              | 1.005            | 0.962              |



**Table 91. Correction factors for variation in entering air temperature 3 tons, DXHF036**

| Cooling<br>Entering<br>Air WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       |       | Heating<br>Entering<br>Air DB°F | Heating<br>capacity | Heating<br>Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|-------|---------------------------------|---------------------|---------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  | 90.0  |                                 |                     |                           |
| 50.0                            | 0.918               | 0.990                     | 1.012                                     | 1.106 | *     | *     | *     | *     | 55.0                            | 1.035               | 0.855                     |
| 55.0                            | 0.903               | 0.988                     | 0.891                                     | 1.052 | 1.173 | *     | *     | *     | 58.0                            | 1.029               | 0.884                     |
| 60.0                            | 0.924               | 0.990                     | 0.646                                     | 0.891 | 1.077 | 1.224 | *     | *     | 61.0                            | 1.022               | 0.913                     |
| 65.0                            | 0.973               | 0.996                     | 0.283                                     | 0.619 | 0.877 | 1.082 | 1.251 | *     | 64.0                            | 1.015               | 0.941                     |
| 67.0                            | 1.000               | 1.000                     | —   | 0.482 | 0.770 | 1.000 | 1.188 | *     | 67.0                            | 1.008               | 0.970                     |
| 70.0                            | 1.047               | 1.005                     | —   | 0.252 | 0.585 | 0.851 | 1.070 | 1.254 | 70.0                            | 1.000               | 1.000                     |
| 75.0                            | 1.138               | 1.017                     | —   | —     | 0.220 | 0.547 | 0.818 | 1.045 | 73.0                            | 0.991               | 1.031                     |
| 78.0                            | 1.199               | 1.024                     | —   | —     | —     | 0.338 | 0.638 | 0.891 | 76.0                            | 0.983               | 1.062                     |

Note: \* = Sensible equals total capacity

**Table 92. Cooling capacities 3 tons (gross) - DXVG036**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 5.9  | 40.0        | 32.2      | 0.81 | 1.36        | 44.6         | 60.1 | 3.3       |
| 45  | 7.2  | 40.2        | 32.4      | 0.81 | 1.35        | 44.8         | 57.4 | 4.8       |
| 45  | 8.1  | 40.3        | 32.5      | 0.81 | 1.35        | 44.9         | 56.1 | 5.9       |
| 45  | 9.0  | 40.3        | 32.5      | 0.81 | 1.35        | 44.9         | 55.0 | 7.2       |
| 45  | 9.5  | 40.3        | 32.5      | 0.81 | 1.35        | 44.9         | 54.5 | 7.9       |
| 45  | 9.9  | 40.4        | 32.5      | 0.80 | 1.35        | 45.0         | 54.1 | 8.5       |
| 45  | 10.8 | 40.4        | 32.5      | 0.80 | 1.35        | 45.0         | 53.3 | 9.9       |
| 55  | 5.9  | 38.8        | 31.7      | 0.82 | 1.42        | 43.7         | 69.8 | 3.1       |
| 55  | 7.2  | 39.0        | 31.8      | 0.82 | 1.41        | 43.8         | 67.2 | 4.5       |
| 55  | 8.1  | 39.1        | 31.9      | 0.82 | 1.40        | 43.9         | 65.8 | 5.5       |
| 55  | 9.0  | 39.1        | 31.9      | 0.82 | 1.39        | 43.8         | 64.7 | 6.7       |
| 55  | 9.5  | 39.1        | 31.9      | 0.82 | 1.39        | 43.8         | 64.2 | 7.4       |
| 55  | 9.9  | 39.2        | 32.0      | 0.82 | 1.39        | 43.9         | 63.9 | 8.0       |
| 55  | 10.8 | 39.2        | 32.0      | 0.82 | 1.38        | 43.9         | 63.1 | 9.3       |
| 68  | 5.9  | 37.1        | 30.9      | 0.83 | 1.58        | 42.5         | 82.4 | 3.0       |
| 68  | 7.2  | 37.3        | 31.1      | 0.83 | 1.55        | 42.6         | 79.8 | 4.2       |
| 68  | 8.1  | 37.4        | 31.2      | 0.83 | 1.53        | 42.6         | 78.5 | 5.2       |
| 68  | 9.0  | 37.4        | 31.2      | 0.83 | 1.52        | 42.6         | 77.5 | 6.3       |
| 68  | 9.5  | 37.5        | 31.3      | 0.83 | 1.52        | 42.7         | 77.0 | 6.9       |
| 68  | 9.9  | 37.5        | 31.3      | 0.83 | 1.51        | 42.7         | 76.6 | 7.5       |
| 68  | 10.8 | 37.5        | 31.3      | 0.83 | 1.50        | 42.6         | 75.9 | 8.7       |
| 75  | 5.9  | 36.2        | 30.5      | 0.84 | 1.69        | 42.0         | 89.2 | 3.0       |
| 75  | 7.2  | 36.4        | 30.7      | 0.84 | 1.65        | 42.0         | 86.7 | 4.2       |
| 75  | 8.1  | 36.4        | 30.7      | 0.84 | 1.64        | 42.0         | 85.4 | 5.1       |
| 75  | 9.0  | 36.5        | 30.8      | 0.84 | 1.62        | 42.0         | 84.3 | 6.2       |
| 75  | 9.5  | 36.5        | 30.8      | 0.84 | 1.62        | 42.0         | 83.8 | 6.8       |
| 75  | 9.9  | 36.6        | 30.9      | 0.84 | 1.61        | 42.1         | 83.5 | 7.3       |
| 75  | 10.8 | 36.6        | 30.9      | 0.84 | 1.60        | 42.1         | 82.8 | 8.5       |
| 86  | 5.9  | 34.6        | 29.8      | 0.86 | 1.91        | 41.1         | 99.9 | 3.0       |



## Performance Data

**Table 92. Cooling capacities 3 tons (gross) - DXVG036 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 7.2  | 34.8        | 30.0      | 0.86 | 1.86        | 41.2         | 97.4  | 4.1       |
| 86  | 8.1  | 34.9        | 30.1      | 0.86 | 1.84        | 41.2         | 96.2  | 5.0       |
| 86  | 9.0  | 34.9        | 30.1      | 0.86 | 1.83        | 41.1         | 95.1  | 6.0       |
| 86  | 9.5  | 35.0        | 30.2      | 0.86 | 1.82        | 41.2         | 94.7  | 6.6       |
| 86  | 9.9  | 35.0        | 30.2      | 0.86 | 1.81        | 41.2         | 94.3  | 7.1       |
| 86  | 10.8 | 35.0        | 30.2      | 0.86 | 1.80        | 41.1         | 93.6  | 8.3       |
| 95  | 5.9  | 33.2        | 29.2      | 0.88 | 2.11        | 40.4         | 108.7 | 2.9       |
| 95  | 7.2  | 33.4        | 29.4      | 0.88 | 2.07        | 40.5         | 106.3 | 4.1       |
| 95  | 8.1  | 33.5        | 29.5      | 0.88 | 2.05        | 40.5         | 105.0 | 5.0       |
| 95  | 9.0  | 33.5        | 29.5      | 0.88 | 2.03        | 40.4         | 104.0 | 5.9       |
| 95  | 9.5  | 33.6        | 29.6      | 0.88 | 2.02        | 40.5         | 103.5 | 6.5       |
| 95  | 9.9  | 33.6        | 29.6      | 0.88 | 2.01        | 40.5         | 103.2 | 7.0       |
| 95  | 10.8 | 33.6        | 29.6      | 0.88 | 2.00        | 40.4         | 102.5 | 8.1       |
| 105 | 5.9  | 31.6        | 28.6      | 0.91 | 2.37        | 39.7         | 118.5 | 2.9       |
| 105 | 7.2  | 31.7        | 28.6      | 0.90 | 2.33        | 39.6         | 116.0 | 4.0       |
| 105 | 8.1  | 31.8        | 28.7      | 0.90 | 2.30        | 39.7         | 114.8 | 4.9       |
| 105 | 9.0  | 31.9        | 28.8      | 0.90 | 2.29        | 39.7         | 113.8 | 5.8       |
| 105 | 9.5  | 31.9        | 28.8      | 0.90 | 2.28        | 39.7         | 113.4 | 6.4       |
| 105 | 9.9  | 31.9        | 28.8      | 0.90 | 2.27        | 39.6         | 113.0 | 6.9       |
| 105 | 10.8 | 32.0        | 28.9      | 0.90 | 2.26        | 39.7         | 112.4 | 8.0       |
| 115 | 5.9  | 29.8        | 27.8      | 0.93 | 2.66        | 38.9         | 128.2 | 2.7       |
| 115 | 7.2  | 30.0        | 27.9      | 0.93 | 2.62        | 38.9         | 125.8 | 3.9       |
| 115 | 8.1  | 30.1        | 28.0      | 0.93 | 2.59        | 38.9         | 124.6 | 4.7       |
| 115 | 9.0  | 30.1        | 28.0      | 0.93 | 2.57        | 38.9         | 123.6 | 5.7       |
| 115 | 9.5  | 30.1        | 28.0      | 0.93 | 2.57        | 38.9         | 123.2 | 6.2       |
| 115 | 9.9  | 30.2        | 28.1      | 0.93 | 2.56        | 38.9         | 122.9 | 6.7       |
| 115 | 10.8 | 30.2        | 28.1      | 0.93 | 2.55        | 38.9         | 122.2 | 7.8       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 9; Minimum CFM 912; Rated CFM 1140; Maximum CFM 1368.

**Table 93. Heating capacities 3 tons (gross) - DXVG036**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 5.9  | 21.6          | 16.2         | 1.58        | 19.5 | 4.2       |
| 25  | 7.2  | 21.9          | 16.5         | 1.59        | 20.4 | 5.9       |
| 25  | 8.1  | 22.1          | 16.7         | 1.59        | 20.9 | 7.3       |
| 25  | 9.0  | 22.3          | 16.9         | 1.59        | 21.2 | 8.7       |
| 25  | 9.5  | 22.3          | 16.9         | 1.60        | 21.4 | 9.5       |
| 25  | 9.9  | 22.4          | 17.0         | 1.60        | 21.6 | 10.2      |
| 25  | 10.8 | 22.5          | 17.1         | 1.60        | 21.8 | 11.8      |
| 32  | 5.9  | 24.0          | 18.5         | 1.62        | 25.7 | 3.8       |
| 32  | 7.2  | 24.5          | 19.0         | 1.62        | 26.7 | 5.4       |
| 32  | 8.1  | 24.7          | 19.2         | 1.63        | 27.3 | 6.7       |

**Table 93. Heating capacities 3 tons (gross) - DXVG036 (continued)**

|    |      |      |      |      |      |      |
|----|------|------|------|------|------|------|
| 32 | 9.0  | 24.9 | 19.3 | 1.63 | 27.7 | 8.1  |
| 32 | 9.5  | 25.0 | 19.4 | 1.63 | 27.9 | 8.9  |
| 32 | 9.9  | 25.0 | 19.4 | 1.63 | 28.1 | 9.5  |
| 32 | 10.8 | 25.2 | 19.6 | 1.63 | 28.4 | 11.1 |
| 45 | 5.9  | 28.8 | 23.0 | 1.69 | 37.2 | 3.3  |
| 45 | 7.2  | 29.4 | 23.6 | 1.70 | 38.4 | 4.8  |
| 45 | 8.1  | 29.7 | 23.9 | 1.70 | 39.1 | 5.9  |
| 45 | 9.0  | 29.9 | 24.1 | 1.70 | 39.6 | 7.2  |
| 45 | 9.5  | 30.0 | 24.2 | 1.71 | 39.9 | 7.9  |
| 45 | 9.9  | 30.1 | 24.3 | 1.71 | 40.1 | 8.5  |
| 45 | 10.8 | 30.3 | 24.5 | 1.71 | 40.5 | 9.9  |
| 55 | 5.9  | 32.6 | 26.6 | 1.76 | 46.0 | 3.1  |
| 55 | 7.2  | 33.3 | 27.3 | 1.77 | 47.4 | 4.5  |
| 55 | 8.1  | 33.7 | 27.6 | 1.78 | 48.2 | 5.5  |
| 55 | 9.0  | 34.0 | 27.9 | 1.78 | 48.8 | 6.7  |
| 55 | 9.5  | 34.2 | 28.1 | 1.78 | 49.1 | 7.4  |
| 55 | 9.9  | 34.3 | 28.2 | 1.79 | 49.3 | 8.0  |
| 55 | 10.8 | 34.5 | 28.4 | 1.79 | 49.7 | 9.3  |
| 68 | 5.9  | 38.0 | 31.6 | 1.87 | 57.3 | 3.0  |
| 68 | 7.2  | 38.9 | 32.4 | 1.89 | 59.0 | 4.2  |
| 68 | 8.1  | 39.3 | 32.8 | 1.90 | 59.9 | 5.2  |
| 68 | 9.0  | 39.7 | 33.2 | 1.91 | 60.6 | 6.3  |
| 68 | 9.5  | 39.9 | 33.4 | 1.92 | 61.0 | 6.9  |
| 68 | 9.9  | 40.0 | 33.4 | 1.92 | 61.3 | 7.5  |
| 68 | 10.8 | 40.3 | 33.7 | 1.93 | 61.8 | 8.7  |
| 75 | 5.9  | 41.0 | 34.4 | 1.95 | 63.3 | 3.0  |
| 75 | 7.2  | 42.0 | 35.3 | 1.98 | 65.2 | 4.2  |
| 75 | 8.1  | 42.5 | 35.7 | 1.99 | 66.2 | 5.1  |
| 75 | 9.0  | 43.0 | 36.2 | 2.00 | 67.0 | 6.2  |
| 75 | 9.5  | 43.2 | 36.3 | 2.01 | 67.4 | 6.8  |
| 75 | 9.9  | 43.3 | 36.4 | 2.01 | 67.6 | 7.3  |
| 75 | 10.8 | 43.7 | 36.8 | 2.02 | 68.2 | 8.5  |
| 86 | 5.9  | 46.1 | 38.9 | 2.10 | 72.8 | 3.0  |
| 86 | 7.2  | 47.3 | 40.0 | 2.14 | 74.9 | 4.1  |
| 86 | 8.1  | 47.9 | 40.5 | 2.16 | 76.0 | 5.0  |
| 86 | 9.0  | 48.4 | 41.0 | 2.17 | 76.9 | 6.0  |
| 86 | 9.5  | 48.7 | 41.3 | 2.18 | 77.3 | 6.6  |
| 86 | 9.9  | 48.8 | 41.3 | 2.19 | 77.7 | 7.1  |
| 86 | 10.8 | 49.2 | 41.7 | 2.20 | 78.3 | 8.3  |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 9; Minimum CFM 912; Rated CFM 1140; Maximum CFM 1368.



## Performance Data

**Table 94. Fan correction factors 3 tons - DXVG036**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 912          | 0.963            | 0.872             | 0.995               | 0.978            | 1.078               |
| 969          | 0.972            | 0.906             | 0.996               | 0.985            | 1.054               |
| 1026         | 0.982            | 0.937             | 0.998               | 0.990            | 1.034               |
| 1083         | 0.992            | 0.968             | 0.999               | 0.995            | 1.016               |
| 1140         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1254         | 1.014            | 1.064             | 1.002               | 1.008            | 0.973               |
| 1311         | 1.021            | 1.095             | 1.003               | 1.011            | 0.961               |
| 1368         | 1.028            | 1.127             | 1.004               | 1.014            | 0.951               |

**Table 95. Correction factors for variation in entering air temperature 3 tons, DXVG036**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  |                                 |                     |                        |
| 49.4                            | 0.899               | 0.992                     | 0.925                                     | 0.993 | 1.049 | *     | *     | 53.0                            | 1.048               | 0.863                  |
| 56.3                            | 0.904               | 0.992                     | 0.812                                     | 0.947 | 1.048 | *     | *     | 58.0                            | 1.032               | 0.905                  |
| 60.3                            | 0.923               | 0.992                     | 0.663                                     | 0.854 | 0.996 | *     | *     | 63.0                            | 1.016               | 0.951                  |
| 63.2                            | 0.960               | 0.995                     | 0.515                                     | 0.752 | 0.929 | 1.065 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.617 | 0.833 | 1.000 | 1.133 | 73.0                            | 0.983               | 1.053                  |
| 72.1                            | 1.115               | 1.019                     | —   | —     | 0.563 | 0.800 | 0.988 | 78.0                            | 0.967               | 1.110                  |
| 77.1                            | 1.212               | 1.046                     | —   | —     | —     | —     | 0.796 | 83.0                            | 0.950               | 1.170                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 3.5 tons

**Table 96. Cooling capacities 3.5 tons (gross) - EXHF042**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 6.3  | 48.48       | 36.68     | 0.76 | 1.427    | 34.0 | 53.35        | 61.9 | 4.2       |
| 45  | 7.8  | 48.78       | 36.78     | 0.75 | 1.387    | 35.2 | 53.51        | 58.7 | 6.1       |
| 45  | 8.7  | 48.98       | 36.88     | 0.75 | 1.367    | 35.8 | 53.65        | 57.3 | 7.4       |
| 45  | 9.8  | 48.98       | 36.88     | 0.75 | 1.347    | 36.4 | 53.58        | 55.9 | 9.1       |
| 45  | 10.2 | 49.08       | 36.98     | 0.75 | 1.347    | 36.4 | 53.68        | 55.5 | 9.8       |
| 45  | 10.7 | 49.18       | 36.98     | 0.75 | 1.337    | 36.8 | 53.74        | 55.0 | 10.7      |
| 45  | 11.6 | 49.18       | 37.08     | 0.75 | 1.327    | 37.1 | 53.71        | 54.3 | 12.3      |
| 55  | 6.3  | 47.08       | 35.98     | 0.76 | 1.627    | 28.9 | 52.63        | 71.7 | 4.0       |
| 55  | 7.8  | 47.38       | 36.18     | 0.76 | 1.567    | 30.2 | 52.73        | 68.5 | 5.9       |
| 55  | 8.7  | 47.48       | 36.18     | 0.76 | 1.537    | 30.9 | 52.73        | 67.1 | 7.1       |
| 55  | 9.8  | 47.68       | 36.28     | 0.76 | 1.517    | 31.4 | 52.86        | 65.8 | 8.8       |
| 55  | 10.2 | 47.68       | 36.28     | 0.76 | 1.517    | 31.4 | 52.86        | 65.4 | 9.4       |
| 55  | 10.7 | 47.68       | 36.28     | 0.76 | 1.507    | 31.6 | 52.82        | 64.9 | 10.2      |
| 55  | 11.6 | 47.78       | 36.38     | 0.76 | 1.497    | 31.9 | 52.89        | 64.1 | 11.8      |
| 68  | 6.3  | 45.38       | 35.28     | 0.78 | 1.917    | 23.7 | 51.92        | 84.5 | 3.8       |
| 68  | 7.8  | 45.68       | 35.48     | 0.78 | 1.857    | 24.6 | 52.02        | 81.3 | 5.6       |
| 68  | 8.7  | 45.78       | 35.48     | 0.78 | 1.827    | 25.1 | 52.02        | 80.0 | 6.8       |
| 68  | 9.8  | 45.88       | 35.58     | 0.78 | 1.807    | 25.4 | 52.05        | 78.6 | 8.4       |

**Table 96. Cooling capacities 3.5 tons (gross) - EXHF042 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 68  | 10.2 | 45.98       | 35.58     | 0.77 | 1.797    | 25.6 | 52.11        | 78.2  | 9.0       |
| 68  | 10.7 | 45.98       | 35.58     | 0.77 | 1.787    | 25.7 | 52.08        | 77.7  | 9.8       |
| 68  | 11.6 | 46.08       | 35.28     | 0.77 | 1.777    | 25.9 | 52.14        | 77.0  | 11.3      |
| 75  | 6.3  | 44.98       | 35.08     | 0.78 | 1.967    | 22.9 | 51.69        | 91.4  | 3.7       |
| 75  | 7.8  | 45.28       | 35.28     | 0.78 | 1.907    | 23.7 | 51.79        | 88.3  | 5.4       |
| 75  | 8.7  | 45.38       | 35.28     | 0.78 | 1.877    | 24.2 | 51.79        | 86.9  | 6.6       |
| 75  | 9.8  | 45.48       | 35.48     | 0.78 | 1.857    | 24.5 | 51.82        | 85.6  | 8.1       |
| 75  | 10.2 | 45.58       | 35.48     | 0.78 | 1.847    | 24.7 | 51.88        | 85.2  | 8.7       |
| 75  | 10.7 | 45.58       | 35.38     | 0.78 | 1.837    | 24.8 | 51.85        | 84.7  | 9.5       |
| 75  | 11.6 | 45.68       | 35.28     | 0.77 | 1.827    | 25.0 | 51.92        | 84.0  | 10.9      |
| 77  | 6.3  | 43.68       | 34.58     | 0.79 | 2.157    | 20.3 | 51.04        | 93.2  | 3.6       |
| 77  | 7.8  | 43.98       | 34.78     | 0.79 | 2.087    | 21.1 | 51.10        | 90.1  | 5.2       |
| 77  | 8.7  | 44.08       | 34.78     | 0.79 | 2.057    | 21.4 | 51.10        | 88.7  | 6.4       |
| 77  | 9.8  | 44.18       | 34.98     | 0.79 | 2.027    | 21.8 | 51.10        | 87.4  | 7.9       |
| 77  | 10.2 | 44.28       | 34.98     | 0.79 | 2.017    | 22.0 | 51.16        | 87.0  | 8.5       |
| 77  | 10.7 | 44.28       | 34.88     | 0.79 | 2.007    | 22.1 | 51.13        | 86.6  | 9.3       |
| 77  | 11.6 | 44.38       | 35.08     | 0.79 | 1.997    | 22.2 | 51.20        | 85.8  | 10.7      |
| 86  | 6.3  | 41.88       | 33.78     | 0.81 | 2.407    | 17.4 | 50.10        | 101.9 | 3.6       |
| 86  | 7.8  | 42.18       | 33.98     | 0.81 | 2.337    | 18.0 | 50.16        | 98.9  | 5.2       |
| 86  | 8.7  | 42.28       | 34.08     | 0.81 | 2.307    | 18.3 | 50.15        | 97.5  | 6.4       |
| 86  | 9.8  | 42.48       | 34.08     | 0.80 | 2.277    | 18.7 | 50.25        | 96.3  | 7.8       |
| 86  | 10.2 | 42.48       | 34.18     | 0.80 | 2.267    | 18.7 | 50.22        | 95.8  | 8.4       |
| 86  | 10.7 | 42.58       | 34.18     | 0.80 | 2.257    | 18.9 | 50.28        | 95.4  | 9.2       |
| 86  | 11.6 | 42.58       | 34.18     | 0.80 | 2.247    | 18.9 | 50.25        | 94.7  | 10.6      |
| 95  | 6.3  | 39.98       | 32.98     | 0.82 | 2.707    | 14.8 | 49.22        | 110.6 | 3.5       |
| 95  | 7.8  | 40.28       | 33.08     | 0.82 | 2.637    | 15.3 | 49.28        | 107.6 | 5.1       |
| 95  | 8.7  | 40.38       | 33.18     | 0.82 | 2.607    | 15.5 | 49.28        | 106.3 | 6.2       |
| 95  | 9.8  | 40.48       | 33.18     | 0.82 | 2.567    | 15.8 | 49.24        | 105.0 | 7.6       |
| 95  | 10.2 | 40.48       | 33.28     | 0.82 | 2.567    | 15.8 | 49.24        | 104.7 | 8.2       |
| 95  | 10.7 | 40.48       | 33.18     | 0.82 | 2.557    | 15.8 | 49.21        | 104.2 | 8.9       |
| 95  | 11.6 | 40.58       | 33.28     | 0.82 | 2.537    | 16.0 | 49.24        | 103.5 | 10.3      |
| 105 | 6.3  | 37.58       | 31.98     | 0.85 | 3.077    | 12.2 | 48.08        | 120.3 | 3.4       |
| 105 | 7.8  | 37.88       | 32.08     | 0.85 | 3.007    | 12.6 | 48.14        | 117.3 | 5.0       |
| 105 | 8.7  | 37.98       | 32.18     | 0.85 | 2.967    | 12.8 | 48.11        | 116.1 | 6.0       |
| 105 | 9.8  | 38.08       | 32.18     | 0.85 | 2.927    | 13.0 | 48.07        | 114.8 | 7.4       |
| 105 | 10.2 | 38.18       | 32.28     | 0.85 | 2.917    | 13.1 | 48.14        | 114.4 | 8.0       |
| 105 | 10.7 | 38.18       | 32.28     | 0.85 | 2.907    | 13.1 | 48.10        | 114.0 | 8.7       |
| 105 | 11.6 | 38.28       | 32.28     | 0.84 | 2.887    | 13.3 | 48.13        | 113.3 | 10.0      |
| 115 | 6.3  | 35.08       | 30.88     | 0.88 | 3.487    | 10.1 | 46.98        | 129.9 | 3.3       |
| 115 | 7.8  | 35.38       | 30.98     | 0.88 | 3.407    | 10.4 | 47.01        | 127.1 | 4.8       |
| 115 | 8.7  | 35.48       | 31.08     | 0.88 | 3.377    | 10.5 | 47.01        | 125.8 | 5.9       |
| 115 | 9.8  | 35.58       | 31.08     | 0.87 | 3.337    | 10.7 | 46.97        | 124.6 | 7.2       |
| 115 | 10.2 | 35.58       | 31.08     | 0.87 | 3.327    | 10.7 | 46.94        | 124.2 | 7.8       |



## Performance Data

**Table 96. Cooling capacities 3.5 tons (gross) - EXHF042 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 115 | 10.7 | 35.68       | 31.08     | 0.87 | 3.317    | 10.8 | 47.00        | 123.8 | 8.4       |
| 115 | 11.6 | 35.68       | 31.18     | 0.87 | 3.297    | 10.8 | 46.93        | 123.1 | 9.7       |
| 120 | 6.3  | 33.68       | 30.48     | 0.90 | 3.697    | 9.1  | 46.30        | 134.7 | 3.3       |
| 120 | 7.8  | 33.98       | 30.48     | 0.90 | 3.617    | 9.4  | 46.32        | 131.9 | 4.8       |
| 120 | 8.7  | 34.18       | 30.48     | 0.89 | 3.587    | 9.5  | 46.42        | 130.7 | 5.8       |
| 120 | 9.8  | 34.28       | 30.48     | 0.89 | 3.557    | 9.6  | 46.42        | 129.5 | 7.1       |
| 120 | 10.2 | 34.18       | 30.58     | 0.89 | 3.547    | 9.6  | 46.29        | 129.1 | 7.7       |
| 120 | 10.7 | 34.28       | 30.58     | 0.89 | 3.527    | 9.7  | 46.32        | 128.7 | 8.3       |
| 120 | 11.6 | 34.28       | 30.58     | 0.89 | 3.517    | 9.7  | 46.28        | 128.0 | 9.6       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 9.8, Rated CFM 1330, Minimum CFM 1064, Maximum CFM 1463.

**Table 97. Heating capacities 3.5 tons (gross) - EXHF042**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 25  | 9.8  | 30.29         | 22.62        | 2.247    | 3.9 | 20.4 | 12.7      |
| 25  | 10.2 | 30.39         | 22.72        | 2.247    | 4.0 | 20.5 | 13.7      |
| 25  | 10.7 | 30.39         | 22.72        | 2.247    | 4.0 | 20.8 | 14.9      |
| 25  | 11.6 | 30.59         | 22.89        | 2.257    | 4.0 | 21.1 | 17.1      |
| 32  | 6.3  | 32.19         | 24.45        | 2.267    | 4.2 | 24.2 | 5.7       |
| 32  | 7.8  | 32.99         | 25.22        | 2.277    | 4.2 | 25.5 | 8.3       |
| 32  | 8.7  | 33.29         | 25.52        | 2.277    | 4.3 | 26.1 | 10.1      |
| 32  | 9.8  | 33.59         | 25.78        | 2.287    | 4.3 | 26.7 | 12.4      |
| 32  | 10.2 | 33.69         | 25.88        | 2.287    | 4.3 | 26.9 | 13.3      |
| 32  | 10.7 | 33.69         | 25.88        | 2.287    | 4.3 | 27.2 | 14.4      |
| 32  | 11.6 | 34.09         | 26.28        | 2.287    | 4.4 | 27.5 | 16.6      |
| 45  | 6.3  | 38.79         | 30.68        | 2.377    | 4.8 | 35.3 | 4.2       |
| 45  | 7.8  | 39.49         | 31.34        | 2.387    | 4.8 | 37.0 | 6.1       |
| 45  | 8.7  | 39.89         | 31.71        | 2.397    | 4.9 | 37.7 | 7.4       |
| 45  | 9.8  | 40.29         | 32.11        | 2.397    | 4.9 | 38.4 | 9.1       |
| 45  | 10.2 | 40.39         | 32.21        | 2.397    | 4.9 | 38.7 | 9.8       |
| 45  | 10.7 | 40.59         | 32.41        | 2.397    | 5.0 | 38.9 | 10.7      |
| 45  | 11.6 | 40.69         | 32.51        | 2.397    | 5.0 | 39.4 | 12.3      |
| 55  | 6.3  | 43.79         | 35.40        | 2.457    | 5.2 | 43.8 | 4.0       |
| 55  | 7.8  | 44.79         | 36.37        | 2.467    | 5.3 | 45.7 | 5.9       |
| 55  | 8.7  | 45.19         | 36.74        | 2.477    | 5.3 | 46.6 | 7.1       |
| 55  | 9.8  | 45.49         | 37.04        | 2.477    | 5.4 | 47.4 | 8.8       |
| 55  | 10.2 | 45.59         | 37.14        | 2.477    | 5.4 | 47.7 | 9.4       |
| 55  | 10.7 | 45.69         | 37.24        | 2.477    | 5.4 | 48.0 | 10.2      |
| 55  | 11.6 | 45.99         | 37.50        | 2.487    | 5.4 | 48.5 | 11.8      |
| 68  | 6.3  | 52.39         | 43.29        | 2.667    | 5.8 | 54.3 | 3.8       |
| 68  | 7.8  | 53.39         | 44.25        | 2.677    | 5.8 | 56.7 | 5.6       |
| 68  | 8.7  | 54.09         | 44.89        | 2.697    | 5.9 | 57.7 | 6.8       |
| 68  | 9.8  | 54.39         | 45.19        | 2.697    | 5.9 | 58.8 | 8.4       |

**Table 97. Heating capacities 3.5 tons (gross) - EXHF042 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 68  | 10.2 | 54.49         | 45.29        | 2.697    | 5.9 | 59.1 | 9.0       |
| 68  | 10.7 | 54.89         | 45.65        | 2.707    | 5.9 | 59.5 | 9.8       |
| 68  | 11.6 | 54.99         | 45.75        | 2.707    | 6.0 | 60.1 | 11.3      |
| 75  | 6.3  | 56.29         | 46.95        | 2.737    | 6.0 | 60.1 | 3.7       |
| 75  | 7.8  | 57.49         | 48.08        | 2.757    | 6.1 | 62.7 | 5.4       |
| 75  | 8.7  | 58.19         | 48.75        | 2.767    | 6.2 | 63.8 | 6.6       |
| 75  | 9.8  | 58.89         | 49.41        | 2.777    | 6.2 | 64.9 | 8.1       |
| 75  | 10.2 | 58.99         | 49.48        | 2.787    | 6.2 | 65.3 | 8.7       |
| 75  | 10.7 | 59.09         | 49.58        | 2.787    | 6.2 | 65.7 | 9.5       |
| 75  | 11.6 | 59.39         | 49.88        | 2.787    | 6.2 | 66.4 | 10.9      |
| 77  | 6.3  | 61.69         | 51.97        | 2.847    | 6.3 | 60.5 | 3.6       |
| 77  | 7.8  | 63.09         | 53.27        | 2.877    | 6.4 | 63.3 | 5.2       |
| 77  | 8.7  | 63.69         | 53.84        | 2.887    | 6.5 | 64.6 | 6.4       |
| 77  | 9.8  | 64.29         | 54.40        | 2.897    | 6.5 | 65.9 | 7.9       |
| 77  | 10.2 | 64.49         | 54.60        | 2.897    | 6.5 | 66.3 | 8.5       |
| 77  | 10.7 | 64.69         | 54.77        | 2.907    | 6.5 | 66.8 | 9.3       |
| 77  | 11.6 | 64.99         | 55.03        | 2.917    | 6.5 | 67.5 | 10.7      |
| 86  | 6.3  | 62.89         | 53.07        | 2.877    | 6.4 | 69.2 | 3.6       |
| 86  | 7.8  | 64.29         | 54.37        | 2.907    | 6.5 | 72.1 | 5.2       |
| 86  | 8.7  | 64.89         | 54.93        | 2.917    | 6.5 | 73.4 | 6.4       |
| 86  | 9.8  | 65.49         | 55.50        | 2.927    | 6.6 | 74.7 | 7.8       |
| 86  | 10.2 | 65.69         | 55.70        | 2.927    | 6.6 | 75.1 | 8.4       |
| 86  | 10.7 | 65.89         | 55.87        | 2.937    | 6.6 | 75.6 | 9.2       |
| 86  | 11.6 | 66.29         | 56.23        | 2.947    | 6.6 | 76.3 | 10.6      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 9.8, Rated CFM 1330, Minimum CFM 1064, Maximum CFM 1463.

**Table 98. Fan correction factors 3.5 tons — EXHF042**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1064         | 0.959            | 0.879             | 1.001              | 0.981            | 1.082              |
| 1197         | 0.982            | 0.942             | 1.000              | 0.991            | 1.035              |
| 1330         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1463         | 1.015            | 1.055             | 1.000              | 1.007            | 0.972              |

**Table 99. Correction factors for variation in entering air temperature 3.5 tons, EXHF042**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.929               | 1.011                     | 0.978                                     | 1.046 | 1.116 | *     | *     | 53.0                            | 1.036               | 0.858                  |
| 56.3                            | 0.931               | 1.009                     | 0.801                                     | 1.008 | 1.115 | *     | *     | 58.0                            | 1.024               | 0.902                  |
| 60.3                            | 0.927               | 1.011                     | 0.604                                     | 0.836 | 1.049 | *     | *     | 63.0                            | 1.012               | 0.951                  |
| 63.2                            | 0.949               | 1.013                     | 0.466                                     | 0.690 | 0.920 | 1.128 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.556 | 0.781 | 1.000 | 1.199 | 73.0                            | 0.987               | 1.051                  |
| 72.1                            | 1.097               | 0.985                     | —   | —     | 0.479 | 0.705 | 0.936 | 78.0                            | 0.972               | 1.103                  |



## Performance Data

**Table 99. Correction factors for variation in entering air temperature 3.5 tons, EXHF042 (continued)**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |      |      |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|------|------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6 | 75.6 | 80.6  | 85.6  |                                 |                     |                        |
| 77.1                            | 1.167               | 0.970                     | —   | —    | —    | 0.450 | 0.682 | 83.0                            | 0.960               | 1.161                  |

Note: \* = Sensible equals total capacity

**Table 100. Cooling capacities 3.5 tons (gross) - EXVG42**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------------|--------------|-------|-----------|
| 45  | 6.8  | 45.3        | 37.1      | 0.82 | 1.44           | 50.2         | 59.8  | 2.6       |
| 45  | 8.4  | 45.5        | 37.3      | 0.82 | 1.43           | 50.4         | 57.0  | 3.9       |
| 45  | 9.5  | 45.5        | 37.3      | 0.82 | 1.43           | 50.4         | 55.6  | 4.8       |
| 45  | 10.5 | 45.6        | 37.4      | 0.82 | 1.43           | 50.5         | 54.6  | 5.8       |
| 45  | 11.0 | 45.6        | 37.4      | 0.82 | 1.43           | 50.5         | 54.2  | 6.3       |
| 45  | 11.6 | 45.6        | 37.4      | 0.82 | 1.43           | 50.5         | 53.7  | 6.9       |
| 45  | 12.6 | 45.6        | 37.4      | 0.82 | 1.43           | 50.5         | 53.0  | 8.0       |
| 55  | 6.8  | 44.6        | 36.6      | 0.82 | 1.52           | 49.8         | 69.6  | 2.5       |
| 55  | 8.4  | 44.7        | 36.7      | 0.82 | 1.49           | 49.8         | 66.9  | 3.6       |
| 55  | 9.5  | 44.8        | 36.7      | 0.82 | 1.48           | 49.8         | 65.5  | 4.5       |
| 55  | 10.5 | 44.8        | 36.7      | 0.82 | 1.47           | 49.8         | 64.5  | 5.4       |
| 55  | 11.0 | 44.9        | 36.8      | 0.82 | 1.47           | 49.9         | 64.1  | 5.9       |
| 55  | 11.6 | 44.9        | 36.8      | 0.82 | 1.47           | 49.9         | 63.6  | 6.5       |
| 55  | 12.6 | 44.9        | 36.8      | 0.82 | 1.46           | 49.9         | 62.9  | 7.5       |
| 68  | 6.8  | 43.1        | 35.8      | 0.83 | 1.73           | 49.0         | 82.4  | 2.4       |
| 68  | 8.4  | 43.2        | 35.8      | 0.83 | 1.69           | 49.0         | 79.7  | 3.4       |
| 68  | 9.5  | 43.3        | 35.9      | 0.83 | 1.67           | 49.0         | 78.3  | 4.3       |
| 68  | 10.5 | 43.3        | 35.9      | 0.83 | 1.66           | 49.0         | 77.3  | 5.1       |
| 68  | 11.0 | 43.3        | 35.9      | 0.83 | 1.65           | 48.9         | 76.9  | 5.5       |
| 68  | 11.6 | 43.3        | 35.9      | 0.83 | 1.64           | 48.9         | 76.4  | 6.1       |
| 68  | 12.6 | 43.4        | 36.0      | 0.83 | 1.64           | 49.0         | 75.8  | 7.0       |
| 75  | 6.8  | 41.9        | 35.2      | 0.84 | 1.88           | 48.3         | 89.2  | 2.4       |
| 75  | 8.4  | 42.1        | 35.4      | 0.84 | 1.84           | 48.4         | 86.5  | 3.4       |
| 75  | 9.5  | 42.1        | 35.4      | 0.84 | 1.82           | 48.3         | 85.2  | 4.2       |
| 75  | 10.5 | 42.2        | 35.4      | 0.84 | 1.80           | 48.3         | 84.2  | 5.0       |
| 75  | 11.0 | 42.2        | 35.4      | 0.84 | 1.79           | 48.3         | 83.8  | 5.4       |
| 75  | 11.6 | 42.2        | 35.4      | 0.84 | 1.79           | 48.3         | 83.3  | 5.9       |
| 75  | 12.6 | 42.2        | 35.4      | 0.84 | 1.78           | 48.3         | 82.7  | 6.8       |
| 86  | 6.8  | 39.9        | 34.3      | 0.86 | 2.17           | 47.3         | 99.9  | 2.4       |
| 86  | 8.4  | 40.0        | 34.4      | 0.86 | 2.12           | 47.2         | 97.2  | 3.3       |
| 86  | 9.5  | 40.1        | 34.5      | 0.86 | 2.09           | 47.2         | 95.9  | 4.1       |
| 86  | 10.5 | 40.2        | 34.6      | 0.86 | 2.07           | 47.3         | 95.0  | 4.9       |
| 86  | 11.0 | 40.2        | 34.6      | 0.86 | 2.07           | 47.2         | 94.6  | 5.3       |
| 86  | 11.6 | 40.2        | 34.6      | 0.86 | 2.06           | 47.2         | 94.1  | 5.8       |
| 86  | 12.6 | 40.2        | 34.6      | 0.86 | 2.05           | 47.2         | 93.5  | 6.7       |
| 95  | 6.8  | 38.2        | 33.5      | 0.88 | 2.44           | 46.5         | 108.7 | 2.4       |



**Table 100. Cooling capacities 3.5 tons (gross) - EXVG42 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 95  | 8.4  | 38.3        | 33.6      | 0.88 | 2.38        | 46.4         | 106.0 | 3.3       |
| 95  | 9.5  | 38.4        | 33.7      | 0.88 | 2.35        | 46.4         | 104.8 | 4.1       |
| 95  | 10.5 | 38.4        | 33.7      | 0.88 | 2.33        | 46.4         | 103.8 | 4.8       |
| 95  | 11.0 | 38.4        | 33.7      | 0.88 | 2.32        | 46.3         | 103.4 | 5.2       |
| 95  | 11.6 | 38.5        | 33.8      | 0.88 | 2.32        | 46.4         | 103.0 | 5.7       |
| 95  | 12.6 | 38.5        | 33.8      | 0.88 | 2.30        | 46.4         | 102.4 | 6.6       |
| 105 | 6.8  | 36.2        | 32.6      | 0.90 | 2.76        | 45.6         | 118.4 | 2.3       |
| 105 | 8.4  | 36.3        | 32.7      | 0.90 | 2.70        | 45.5         | 115.8 | 3.3       |
| 105 | 9.5  | 36.3        | 32.7      | 0.90 | 2.67        | 45.4         | 114.6 | 4.0       |
| 105 | 10.5 | 36.4        | 32.8      | 0.90 | 2.65        | 45.4         | 113.6 | 4.7       |
| 105 | 11.0 | 36.4        | 32.8      | 0.90 | 2.64        | 45.4         | 113.3 | 5.1       |
| 105 | 11.6 | 36.4        | 32.8      | 0.90 | 2.63        | 45.4         | 112.8 | 5.6       |
| 105 | 12.6 | 36.5        | 32.8      | 0.90 | 2.62        | 45.4         | 112.2 | 6.5       |
| 115 | 6.8  | 33.9        | 31.5      | 0.93 | 3.10        | 44.5         | 128.1 | 2.2       |
| 115 | 8.4  | 34.0        | 31.6      | 0.93 | 3.04        | 44.4         | 125.6 | 3.2       |
| 115 | 9.5  | 34.1        | 31.7      | 0.93 | 3.01        | 44.4         | 124.3 | 3.9       |
| 115 | 10.5 | 34.1        | 31.7      | 0.93 | 2.99        | 44.3         | 123.4 | 4.6       |
| 115 | 11.0 | 34.1        | 31.7      | 0.93 | 2.98        | 44.3         | 123.1 | 5.0       |
| 115 | 11.6 | 34.1        | 31.7      | 0.93 | 2.97        | 44.2         | 122.6 | 5.5       |
| 115 | 12.6 | 34.2        | 31.8      | 0.93 | 2.95        | 44.3         | 122.0 | 6.4       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 10.5; Minimum CFM 1064; Rated CFM 1330; Maximum CFM 1596.

**Table 101. Heating capacities 3.5 tons (gross) - EXVG042**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 6.8  | 24.7          | 18.3         | 1.86        | 19.6 | 3.4       |
| 25  | 8.4  | 25.1          | 18.7         | 1.87        | 20.5 | 4.9       |
| 25  | 9.5  | 25.3          | 18.9         | 1.87        | 21.0 | 6.1       |
| 25  | 10.5 | 25.5          | 19.1         | 1.87        | 21.4 | 7.2       |
| 25  | 11.0 | 25.6          | 19.2         | 1.87        | 21.5 | 7.8       |
| 25  | 11.6 | 25.6          | 19.2         | 1.87        | 21.7 | 8.5       |
| 25  | 12.6 | 25.8          | 19.4         | 1.88        | 21.9 | 9.8       |
| 32  | 6.8  | 27.5          | 21.0         | 1.90        | 25.8 | 3.1       |
| 32  | 8.4  | 28.0          | 21.5         | 1.91        | 26.9 | 4.5       |
| 32  | 9.5  | 28.3          | 21.8         | 1.91        | 27.4 | 5.5       |
| 32  | 10.5 | 28.5          | 22.0         | 1.92        | 27.8 | 6.6       |
| 32  | 11.0 | 28.6          | 22.1         | 1.92        | 28.0 | 7.1       |
| 32  | 11.6 | 28.7          | 22.2         | 1.92        | 28.2 | 7.8       |
| 32  | 12.6 | 28.8          | 22.3         | 1.92        | 28.5 | 9.0       |
| 45  | 6.8  | 33.8          | 27.1         | 1.97        | 37.0 | 2.6       |
| 45  | 8.4  | 34.6          | 27.8         | 1.98        | 38.4 | 3.9       |



## Performance Data

**Table 101. Heating capacities 3.5 tons (gross) - EXVG042 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 45  | 9.5  | 35.0          | 28.2         | 1.99        | 39.1 | 4.8       |
| 45  | 10.5 | 35.2          | 28.4         | 1.99        | 39.6 | 5.8       |
| 45  | 11.0 | 35.4          | 28.6         | 1.99        | 39.8 | 6.3       |
| 45  | 11.6 | 35.5          | 28.7         | 1.99        | 40.1 | 6.9       |
| 45  | 12.6 | 35.7          | 28.9         | 2.00        | 40.4 | 8.0       |
| 55  | 6.8  | 39.0          | 32.1         | 2.03        | 45.6 | 2.5       |
| 55  | 8.4  | 40.0          | 33.0         | 2.04        | 47.1 | 3.6       |
| 55  | 9.5  | 40.5          | 33.5         | 2.05        | 47.9 | 4.5       |
| 55  | 10.5 | 40.8          | 33.8         | 2.06        | 48.6 | 5.4       |
| 55  | 11.0 | 41.0          | 34.0         | 2.06        | 48.8 | 5.9       |
| 55  | 11.6 | 41.1          | 34.1         | 2.06        | 49.1 | 6.5       |
| 55  | 12.6 | 41.4          | 34.3         | 2.07        | 49.6 | 7.5       |
| 68  | 6.8  | 45.9          | 38.7         | 2.12        | 56.6 | 2.4       |
| 68  | 8.4  | 47.1          | 39.8         | 2.15        | 58.5 | 3.4       |
| 68  | 9.5  | 47.7          | 40.3         | 2.16        | 59.5 | 4.3       |
| 68  | 10.5 | 48.1          | 40.7         | 2.17        | 60.2 | 5.1       |
| 68  | 11.0 | 48.3          | 40.9         | 2.18        | 60.6 | 5.5       |
| 68  | 11.6 | 48.5          | 41.1         | 2.18        | 60.9 | 6.1       |
| 68  | 12.6 | 48.9          | 41.4         | 2.19        | 61.4 | 7.0       |
| 75  | 6.8  | 49.6          | 42.1         | 2.20        | 62.6 | 2.4       |
| 75  | 8.4  | 50.9          | 43.3         | 2.23        | 64.7 | 3.4       |
| 75  | 9.5  | 51.5          | 43.9         | 2.24        | 65.8 | 4.2       |
| 75  | 10.5 | 52.0          | 44.3         | 2.25        | 66.6 | 5.0       |
| 75  | 11.0 | 52.2          | 44.5         | 2.26        | 66.9 | 5.4       |
| 75  | 11.6 | 52.5          | 44.8         | 2.26        | 67.3 | 5.9       |
| 75  | 12.6 | 52.8          | 45.0         | 2.27        | 67.9 | 6.8       |
| 86  | 6.8  | 55.2          | 47.2         | 2.34        | 72.1 | 2.4       |
| 86  | 8.4  | 56.7          | 48.6         | 2.38        | 74.4 | 3.3       |
| 86  | 9.5  | 57.5          | 49.3         | 2.41        | 75.6 | 4.1       |
| 86  | 10.5 | 58.1          | 49.8         | 2.42        | 76.5 | 4.9       |
| 86  | 11.0 | 58.3          | 50.0         | 2.43        | 76.9 | 5.3       |
| 86  | 11.6 | 58.6          | 50.3         | 2.44        | 77.3 | 5.8       |
| 86  | 12.6 | 59.0          | 50.6         | 2.45        | 78.0 | 6.7       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 10.5; Minimum CFM 1064; Rated CFM 1330; Maximum CFM 1596.

**Table 102. Fan correction factors 3.5 tons — EXVG042**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1064         | 0.964            | 0.870             | 0.996               | 0.982            | 1.086               |
| 1131         | 0.974            | 0.904             | 0.997               | 0.988            | 1.060               |
| 1197         | 0.983            | 0.937             | 0.998               | 0.992            | 1.038               |

**Table 102. Fan correction factors 3.5 tons — EXVG042 (continued)**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1264         | 0.992            | 0.969             | 0.999               | 0.997            | 1.018               |
| 1330         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1463         | 1.015            | 1.061             | 1.001               | 1.006            | 0.970               |
| 1530         | 1.020            | 1.093             | 1.002               | 1.008            | 0.957               |
| 1596         | 1.026            | 1.124             | 1.003               | 1.010            | 0.945               |

**Table 103. Correction factors for variation in entering air temperature 3.5 tons, EXVG042**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.896               | 0.993                     | 0.926                                     | 0.992 | 1.047 | *     | *     | 53.0                            | 1.035               | 0.851                  |
| 56.3                            | 0.896               | 0.993                     | 0.811                                     | 0.948 | 1.047 | *     | *     | 58.0                            | 1.025               | 0.897                  |
| 60.3                            | 0.913               | 0.994                     | 0.657                                     | 0.855 | 0.997 | 1.103 | *     | 63.0                            | 1.013               | 0.947                  |
| 63.2                            | 0.954               | 0.996                     | 0.503                                     | 0.750 | 0.930 | 1.064 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.608 | 0.832 | 1.000 | 1.130 | 73.0                            | 0.986               | 1.057                  |
| 72.1                            | 1.115               | 1.013                     | —   | —     | 0.548 | 0.795 | 0.986 | 78.0                            | 0.971               | 1.117                  |
| 77.1                            | 1.203               | 1.030                     | —   | —     | —     | —     | 0.789 | 83.0                            | 0.955               | 1.180                  |

Note: \* = Sensible equals total capacity

## Cooling and Heating Capacities 4 tons

**Table 104. Cooling capacities 4 tons (gross) -EXHF048**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 7.2  | 54.75       | 41.35     | 0.76 | 1.709    | 32.0 | 60.58        | 61.8 | 4.4       |
| 45  | 8.8  | 54.95       | 41.45     | 0.75 | 1.659    | 33.1 | 60.61        | 58.8 | 6.3       |
| 45  | 9.9  | 55.15       | 41.45     | 0.75 | 1.639    | 33.6 | 60.74        | 57.3 | 7.8       |
| 45  | 11.2 | 55.35       | 41.55     | 0.75 | 1.619    | 34.2 | 60.88        | 55.9 | 9.7       |
| 45  | 11.6 | 55.25       | 41.55     | 0.75 | 1.609    | 34.3 | 60.74        | 55.5 | 10.4      |
| 45  | 12.1 | 55.35       | 41.55     | 0.75 | 1.599    | 34.6 | 60.81        | 55.1 | 11.2      |
| 45  | 13.2 | 55.35       | 41.55     | 0.75 | 1.589    | 34.8 | 60.77        | 54.2 | 13.0      |
| 55  | 7.2  | 53.15       | 40.65     | 0.76 | 1.929    | 27.6 | 59.73        | 71.6 | 4.3       |
| 55  | 8.8  | 53.45       | 40.75     | 0.76 | 1.869    | 28.6 | 59.83        | 68.6 | 6.1       |
| 55  | 9.9  | 53.55       | 40.85     | 0.76 | 1.839    | 29.1 | 59.83        | 67.1 | 7.5       |
| 55  | 11.2 | 53.75       | 40.95     | 0.76 | 1.809    | 29.7 | 59.92        | 65.7 | 9.4       |
| 55  | 11.6 | 53.75       | 40.95     | 0.76 | 1.799    | 29.9 | 59.89        | 65.3 | 10.0      |
| 55  | 12.1 | 53.75       | 40.95     | 0.76 | 1.799    | 29.9 | 59.89        | 64.9 | 10.7      |
| 55  | 13.2 | 53.85       | 40.85     | 0.76 | 1.779    | 30.3 | 59.92        | 64.1 | 12.5      |
| 68  | 7.2  | 51.05       | 39.85     | 0.78 | 2.259    | 22.6 | 58.76        | 84.3 | 4.0       |
| 68  | 8.8  | 51.35       | 40.05     | 0.78 | 2.189    | 23.5 | 58.82        | 81.4 | 5.7       |
| 68  | 9.9  | 51.55       | 40.05     | 0.78 | 2.149    | 24.0 | 58.88        | 79.9 | 7.1       |
| 68  | 11.2 | 51.65       | 40.05     | 0.78 | 2.119    | 24.4 | 58.88        | 78.5 | 8.8       |
| 68  | 11.6 | 51.65       | 40.15     | 0.78 | 2.109    | 24.5 | 58.85        | 78.1 | 9.4       |
| 68  | 12.1 | 51.75       | 40.15     | 0.78 | 2.099    | 24.7 | 58.91        | 77.7 | 10.1      |
| 68  | 13.2 | 51.85       | 40.25     | 0.78 | 2.079    | 24.9 | 58.95        | 76.9 | 11.8      |

**Table 104. Cooling capacities 4 tons (gross) -EXHF048 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 75  | 7.2  | 50.65       | 39.65     | 0.78 | 2.319    | 21.8 | 58.56        | 91.3  | 3.9       |
| 75  | 8.8  | 50.95       | 39.85     | 0.78 | 2.249    | 22.7 | 58.63        | 88.3  | 5.6       |
| 75  | 9.9  | 51.15       | 39.85     | 0.78 | 2.209    | 23.2 | 58.69        | 86.9  | 6.9       |
| 75  | 11.2 | 51.25       | 39.85     | 0.78 | 2.179    | 23.5 | 58.69        | 85.5  | 8.5       |
| 75  | 11.6 | 51.25       | 39.95     | 0.78 | 2.169    | 23.6 | 58.65        | 85.1  | 9.1       |
| 75  | 12.1 | 51.35       | 39.95     | 0.78 | 2.159    | 23.8 | 58.72        | 84.7  | 9.8       |
| 75  | 13.2 | 51.45       | 40.05     | 0.78 | 2.139    | 24.1 | 58.75        | 83.9  | 11.4      |
| 77  | 7.2  | 49.25       | 39.05     | 0.79 | 2.529    | 19.5 | 57.88        | 93.1  | 3.8       |
| 77  | 8.8  | 49.55       | 39.25     | 0.79 | 2.459    | 20.2 | 57.94        | 90.2  | 5.4       |
| 77  | 9.9  | 49.65       | 39.35     | 0.79 | 2.419    | 20.5 | 57.91        | 88.7  | 6.7       |
| 77  | 11.2 | 49.85       | 39.35     | 0.79 | 2.379    | 21.0 | 57.97        | 87.4  | 8.3       |
| 77  | 11.6 | 49.75       | 39.35     | 0.79 | 2.369    | 21.0 | 57.84        | 87.0  | 8.8       |
| 77  | 12.1 | 49.85       | 39.35     | 0.79 | 2.369    | 21.0 | 57.94        | 86.6  | 9.5       |
| 77  | 13.2 | 49.95       | 39.35     | 0.79 | 2.349    | 21.3 | 57.97        | 85.8  | 11.1      |
| 86  | 7.2  | 47.35       | 38.45     | 0.81 | 2.839    | 16.7 | 57.04        | 101.8 | 3.8       |
| 86  | 8.8  | 47.65       | 38.45     | 0.81 | 2.759    | 17.3 | 57.07        | 99.0  | 5.4       |
| 86  | 9.9  | 47.85       | 38.65     | 0.81 | 2.719    | 17.6 | 57.13        | 97.5  | 6.6       |
| 86  | 11.2 | 47.95       | 38.55     | 0.80 | 2.679    | 17.9 | 57.09        | 96.2  | 8.2       |
| 86  | 11.6 | 47.95       | 38.55     | 0.80 | 2.669    | 18.0 | 57.06        | 95.8  | 8.7       |
| 86  | 12.1 | 48.05       | 38.55     | 0.80 | 2.659    | 18.1 | 57.13        | 95.4  | 9.4       |
| 86  | 13.2 | 48.15       | 38.65     | 0.80 | 2.639    | 18.2 | 57.16        | 94.7  | 11.0      |
| 95  | 7.2  | 45.25       | 37.75     | 0.83 | 3.179    | 14.2 | 56.10        | 110.6 | 3.7       |
| 95  | 8.8  | 45.55       | 37.85     | 0.83 | 3.099    | 14.7 | 56.13        | 107.8 | 5.2       |
| 95  | 9.9  | 45.65       | 37.95     | 0.83 | 3.059    | 14.9 | 56.09        | 106.3 | 6.4       |
| 95  | 11.2 | 45.85       | 37.95     | 0.83 | 3.019    | 15.2 | 56.15        | 105.0 | 8.0       |
| 95  | 11.6 | 45.85       | 37.95     | 0.83 | 3.009    | 15.2 | 56.12        | 104.7 | 8.5       |
| 95  | 12.1 | 45.85       | 37.95     | 0.83 | 2.999    | 15.3 | 56.09        | 104.3 | 9.2       |
| 95  | 13.2 | 45.95       | 38.05     | 0.83 | 2.979    | 15.4 | 56.12        | 103.5 | 10.7      |
| 105 | 7.2  | 42.65       | 36.65     | 0.86 | 3.599    | 11.9 | 54.93        | 120.3 | 3.6       |
| 105 | 8.8  | 42.95       | 36.65     | 0.85 | 3.509    | 12.2 | 54.93        | 117.5 | 5.1       |
| 105 | 9.9  | 43.15       | 36.85     | 0.85 | 3.469    | 12.4 | 54.99        | 116.1 | 6.3       |
| 105 | 11.2 | 43.25       | 36.95     | 0.85 | 3.429    | 12.6 | 54.95        | 114.8 | 7.8       |
| 105 | 11.6 | 43.25       | 36.85     | 0.85 | 3.419    | 12.6 | 54.92        | 114.5 | 8.3       |
| 105 | 12.1 | 43.25       | 36.95     | 0.85 | 3.409    | 12.7 | 54.88        | 114.1 | 8.9       |
| 105 | 13.2 | 43.35       | 37.05     | 0.85 | 3.389    | 12.8 | 54.92        | 113.3 | 10.4      |
| 115 | 7.2  | 39.95       | 35.35     | 0.88 | 4.059    | 9.8  | 53.80        | 129.9 | 3.5       |
| 115 | 8.8  | 40.15       | 35.55     | 0.89 | 3.969    | 10.1 | 53.70        | 127.2 | 5.0       |
| 115 | 9.9  | 40.35       | 35.55     | 0.88 | 3.929    | 10.3 | 53.76        | 125.9 | 6.1       |
| 115 | 11.2 | 40.45       | 35.65     | 0.88 | 3.889    | 10.4 | 53.72        | 124.6 | 7.6       |
| 115 | 11.6 | 40.45       | 35.65     | 0.88 | 3.869    | 10.5 | 53.65        | 124.3 | 8.1       |
| 115 | 12.1 | 40.55       | 35.65     | 0.88 | 3.859    | 10.5 | 53.72        | 123.9 | 8.7       |
| 115 | 13.2 | 40.55       | 35.65     | 0.88 | 3.839    | 10.6 | 53.65        | 123.1 | 10.1      |
| 120 | 7.2  | 38.45       | 34.75     | 0.90 | 4.299    | 8.9  | 53.12        | 134.8 | 3.4       |

**Table 104. Cooling capacities 4 tons (gross) -EXHF048 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|-----|--------------|-------|-----------|
| 120 | 8.8  | 38.75       | 34.75     | 0.90 | 4.219    | 9.2 | 53.15        | 132.1 | 4.9       |
| 120 | 9.9  | 38.85       | 34.85     | 0.90 | 4.169    | 9.3 | 53.08        | 130.7 | 6.0       |
| 120 | 11.2 | 38.95       | 34.95     | 0.90 | 4.129    | 9.4 | 53.04        | 129.5 | 7.5       |
| 120 | 11.6 | 39.05       | 35.05     | 0.90 | 4.119    | 9.5 | 53.11        | 129.2 | 8.0       |
| 120 | 12.1 | 39.05       | 35.05     | 0.90 | 4.109    | 9.5 | 53.07        | 128.8 | 8.6       |
| 120 | 13.2 | 39.15       | 35.05     | 0.90 | 4.079    | 9.6 | 53.07        | 128.0 | 10.0      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 11.2, Rated CFM 1520, Minimum CFM 1216, Maximum CFM 1672.

**Table 105. Heating capacities 4 tons (gross) -EXHF048**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 25  | 11.2 | 33.52         | 25.20        | 2.439    | 4.0 | 20.5 | 13.1      |
| 25  | 11.6 | 33.62         | 25.30        | 2.439    | 4.0 | 20.6 | 13.9      |
| 25  | 12.1 | 33.72         | 25.36        | 2.449    | 4.0 | 20.8 | 14.9      |
| 25  | 13.2 | 33.92         | 25.56        | 2.449    | 4.1 | 21.1 | 17.4      |
| 32  | 7.2  | 35.62         | 27.19        | 2.469    | 4.2 | 24.4 | 5.9       |
| 32  | 8.8  | 36.32         | 27.86        | 2.479    | 4.3 | 25.7 | 8.3       |
| 32  | 9.9  | 36.62         | 28.13        | 2.489    | 4.3 | 26.3 | 10.2      |
| 32  | 11.2 | 37.02         | 28.53        | 2.489    | 4.4 | 26.9 | 12.7      |
| 32  | 11.6 | 37.12         | 28.63        | 2.489    | 4.4 | 27.1 | 13.5      |
| 32  | 12.1 | 37.22         | 28.69        | 2.499    | 4.4 | 27.3 | 14.5      |
| 32  | 13.2 | 37.52         | 28.99        | 2.499    | 4.4 | 27.6 | 16.9      |
| 45  | 7.2  | 43.22         | 34.21        | 2.639    | 4.8 | 35.5 | 4.4       |
| 45  | 8.8  | 44.12         | 35.04        | 2.659    | 4.9 | 37.0 | 6.3       |
| 45  | 9.9  | 44.62         | 35.54        | 2.659    | 4.9 | 37.8 | 7.8       |
| 45  | 11.2 | 45.02         | 35.91        | 2.669    | 4.9 | 38.6 | 9.7       |
| 45  | 11.6 | 45.02         | 35.91        | 2.669    | 4.9 | 38.8 | 10.4      |
| 45  | 12.1 | 45.22         | 36.11        | 2.669    | 5.0 | 39.0 | 11.2      |
| 45  | 13.2 | 45.62         | 36.48        | 2.679    | 5.0 | 39.5 | 13.0      |
| 55  | 7.2  | 48.92         | 39.54        | 2.749    | 5.2 | 44.0 | 4.3       |
| 55  | 8.8  | 49.82         | 40.40        | 2.759    | 5.3 | 45.8 | 6.1       |
| 55  | 9.9  | 50.62         | 41.14        | 2.779    | 5.3 | 46.7 | 7.5       |
| 55  | 11.2 | 51.12         | 41.60        | 2.789    | 5.4 | 47.6 | 9.4       |
| 55  | 11.6 | 50.92         | 41.44        | 2.779    | 5.4 | 47.9 | 10.0      |
| 55  | 12.1 | 51.32         | 41.80        | 2.789    | 5.4 | 48.1 | 10.7      |
| 55  | 13.2 | 51.62         | 42.07        | 2.799    | 5.4 | 48.6 | 12.5      |
| 68  | 7.2  | 57.72         | 47.69        | 2.939    | 5.8 | 54.8 | 4.0       |
| 68  | 8.8  | 59.42         | 49.25        | 2.979    | 5.8 | 56.8 | 5.7       |
| 68  | 9.9  | 60.12         | 49.92        | 2.989    | 5.9 | 57.9 | 7.1       |
| 68  | 11.2 | 60.82         | 50.58        | 2.999    | 5.9 | 59.0 | 8.8       |
| 68  | 11.6 | 60.92         | 50.68        | 2.999    | 6.0 | 59.3 | 9.4       |
| 68  | 12.1 | 61.12         | 50.85        | 3.009    | 6.0 | 59.6 | 10.1      |
| 68  | 13.2 | 61.42         | 51.15        | 3.009    | 6.0 | 60.3 | 11.8      |



## Performance Data

**Table 105. Heating capacities 4 tons (gross) -EXHF048 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 75  | 7.2  | 62.42         | 52.05        | 3.039    | 6.0 | 60.5 | 3.9       |
| 75  | 8.8  | 64.02         | 53.58        | 3.059    | 6.1 | 62.8 | 5.6       |
| 75  | 9.9  | 64.42         | 53.98        | 3.059    | 6.2 | 64.1 | 6.9       |
| 75  | 11.2 | 65.32         | 54.81        | 3.079    | 6.2 | 65.2 | 8.5       |
| 75  | 11.6 | 65.52         | 55.01        | 3.079    | 6.2 | 65.5 | 9.1       |
| 75  | 12.1 | 65.72         | 55.21        | 3.079    | 6.3 | 65.9 | 9.8       |
| 75  | 13.2 | 66.32         | 55.78        | 3.089    | 6.3 | 66.5 | 11.4      |
| 77  | 7.2  | 68.42         | 57.67        | 3.149    | 6.4 | 61.0 | 3.8       |
| 77  | 8.8  | 70.12         | 59.30        | 3.169    | 6.5 | 63.5 | 5.4       |
| 77  | 9.9  | 71.12         | 60.24        | 3.189    | 6.5 | 64.8 | 6.7       |
| 77  | 11.2 | 71.82         | 60.90        | 3.199    | 6.6 | 66.1 | 8.3       |
| 77  | 11.6 | 72.02         | 61.10        | 3.199    | 6.6 | 66.5 | 8.8       |
| 77  | 12.1 | 72.22         | 61.30        | 3.199    | 6.6 | 66.9 | 9.5       |
| 77  | 13.2 | 72.82         | 61.87        | 3.209    | 6.6 | 67.6 | 11.1      |
| 86  | 7.2  | 69.72         | 58.90        | 3.169    | 6.4 | 69.6 | 3.8       |
| 86  | 8.8  | 71.42         | 60.50        | 3.199    | 6.5 | 72.3 | 5.4       |
| 86  | 9.9  | 72.62         | 61.63        | 3.219    | 6.6 | 73.5 | 6.6       |
| 86  | 11.2 | 73.22         | 62.20        | 3.229    | 6.6 | 74.9 | 8.2       |
| 86  | 11.6 | 73.42         | 62.40        | 3.229    | 6.7 | 75.2 | 8.7       |
| 86  | 12.1 | 73.72         | 62.70        | 3.229    | 6.7 | 75.6 | 9.4       |
| 86  | 13.2 | 74.22         | 63.17        | 3.239    | 6.7 | 76.4 | 11.0      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 11.2, Rated CFM 1520, Minimum CFM 1216, Maximum CFM 1672.

**Table 106. Fan correction factors 4 tons - EXHF048**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1216         | 0.959            | 0.878             | 1.002              | 0.977            | 1.080              |
| 1368         | 0.981            | 0.940             | 1.001              | 0.989            | 1.034              |
| 1520         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1672         | 1.016            | 1.063             | 0.999              | 1.001            | 0.968              |

**Table 107. Correction factors for variation in entering air temperature 4 tons, EXHF048**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.942               | 1.006                     | 0.982                                     | 1.048 | 1.115 | *     | *     | 53.0                            | 1.034               | 0.861                  |
| 56.3                            | 0.941               | 1.004                     | 0.805                                     | 1.021 | 1.114 | *     | *     | 58.0                            | 1.020               | 0.903                  |
| 60.3                            | 0.941               | 1.004                     | 0.606                                     | 0.840 | 1.069 | *     | *     | 63.0                            | 1.009               | 0.949                  |
| 63.2                            | 0.957               | 1.003                     | 0.458                                     | 0.693 | 0.925 | 1.148 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.535 | 0.767 | 1.000 | 1.224 | 73.0                            | 0.983               | 1.046                  |
| 72.1                            | 1.095               | 0.990                     | —   | —     | 0.459 | 0.692 | 0.924 | 78.0                            | 0.966               | 1.096                  |
| 77.1                            | 1.178               | 0.978                     | —   | —     | —     | 0.422 | 0.655 | 83.0                            | 0.952               | 1.149                  |

**Note:** \* = Sensible equals total capacity

**Table 108. Cooling capacities 4 tons (gross) - EXVG048**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------------|--------------|-------|-----------|
| 45  | 7.8  | 52.9        | 42.9      | 0.81 | 1.70           | 58.7         | 60.1  | 3.3       |
| 45  | 9.6  | 52.9        | 42.9      | 0.81 | 1.67           | 58.6         | 57.2  | 4.9       |
| 45  | 10.8 | 52.9        | 42.9      | 0.81 | 1.66           | 58.6         | 55.9  | 6.0       |
| 45  | 12.0 | 52.9        | 42.9      | 0.81 | 1.65           | 58.5         | 54.8  | 7.3       |
| 45  | 12.6 | 52.9        | 42.9      | 0.81 | 1.65           | 58.5         | 54.3  | 8.0       |
| 45  | 13.2 | 52.9        | 42.9      | 0.81 | 1.65           | 58.5         | 53.9  | 8.7       |
| 45  | 14.4 | 52.9        | 42.9      | 0.81 | 1.65           | 58.5         | 53.1  | 10.2      |
| 55  | 7.8  | 51.7        | 42.1      | 0.81 | 1.84           | 58.0         | 69.9  | 3.1       |
| 55  | 9.6  | 51.8        | 42.2      | 0.81 | 1.80           | 57.9         | 67.1  | 4.5       |
| 55  | 10.8 | 51.8        | 42.2      | 0.81 | 1.78           | 57.9         | 65.7  | 5.6       |
| 55  | 12.0 | 51.9        | 42.3      | 0.82 | 1.77           | 57.9         | 64.7  | 6.7       |
| 55  | 12.6 | 51.9        | 42.3      | 0.82 | 1.76           | 57.9         | 64.2  | 7.3       |
| 55  | 13.2 | 51.9        | 42.3      | 0.82 | 1.76           | 57.9         | 63.8  | 8.0       |
| 55  | 14.4 | 51.9        | 42.3      | 0.82 | 1.75           | 57.9         | 63.0  | 9.4       |
| 68  | 7.8  | 49.8        | 41.1      | 0.83 | 2.12           | 57.0         | 82.6  | 2.9       |
| 68  | 9.6  | 49.9        | 41.2      | 0.83 | 2.07           | 56.9         | 79.9  | 4.2       |
| 68  | 10.8 | 50.0        | 41.2      | 0.82 | 2.04           | 57.0         | 78.6  | 5.2       |
| 68  | 12.0 | 50.0        | 41.2      | 0.82 | 2.02           | 56.9         | 77.5  | 6.2       |
| 68  | 12.6 | 50.0        | 41.2      | 0.82 | 2.01           | 56.8         | 77.0  | 6.8       |
| 68  | 13.2 | 50.1        | 41.3      | 0.82 | 2.00           | 56.9         | 76.6  | 7.4       |
| 68  | 14.4 | 50.1        | 41.3      | 0.82 | 1.99           | 56.9         | 75.9  | 8.6       |
| 75  | 7.8  | 48.5        | 40.4      | 0.83 | 2.31           | 56.4         | 89.5  | 2.9       |
| 75  | 9.6  | 48.7        | 40.6      | 0.83 | 2.25           | 56.4         | 86.8  | 4.1       |
| 75  | 10.8 | 48.8        | 40.7      | 0.83 | 2.22           | 56.4         | 85.4  | 5.0       |
| 75  | 12.0 | 48.8        | 40.7      | 0.83 | 2.19           | 56.3         | 84.4  | 6.0       |
| 75  | 12.6 | 48.9        | 40.8      | 0.83 | 2.18           | 56.3         | 83.9  | 6.6       |
| 75  | 13.2 | 48.9        | 40.8      | 0.83 | 2.17           | 56.3         | 83.5  | 7.2       |
| 75  | 14.4 | 48.9        | 40.8      | 0.83 | 2.16           | 56.3         | 82.8  | 8.4       |
| 86  | 7.8  | 46.3        | 39.4      | 0.85 | 2.66           | 55.4         | 100.2 | 2.8       |
| 86  | 9.6  | 46.5        | 39.6      | 0.85 | 2.59           | 55.3         | 97.5  | 4.0       |
| 86  | 10.8 | 46.6        | 39.7      | 0.85 | 2.55           | 55.3         | 96.2  | 4.9       |
| 86  | 12.0 | 46.7        | 39.8      | 0.85 | 2.53           | 55.3         | 95.2  | 5.9       |
| 86  | 12.6 | 46.7        | 39.8      | 0.85 | 2.51           | 55.3         | 94.8  | 6.4       |
| 86  | 13.2 | 46.7        | 39.8      | 0.85 | 2.50           | 55.2         | 94.4  | 6.9       |
| 86  | 14.4 | 46.8        | 39.9      | 0.85 | 2.49           | 55.3         | 93.7  | 8.0       |
| 95  | 7.8  | 44.3        | 38.5      | 0.87 | 2.98           | 54.5         | 109.0 | 2.8       |
| 95  | 9.6  | 44.5        | 38.7      | 0.87 | 2.90           | 54.4         | 106.3 | 4.0       |
| 95  | 10.8 | 44.6        | 38.7      | 0.87 | 2.87           | 54.4         | 105.1 | 4.8       |
| 95  | 12.0 | 44.7        | 38.8      | 0.87 | 2.84           | 54.4         | 104.1 | 5.7       |
| 95  | 12.6 | 44.7        | 38.8      | 0.87 | 2.83           | 54.3         | 103.6 | 6.2       |
| 95  | 13.2 | 44.7        | 38.8      | 0.87 | 2.82           | 54.3         | 103.2 | 6.8       |



## Performance Data

**Table 108. Cooling capacities 4 tons (gross) - EXVG048 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 95  | 14.4 | 44.8        | 38.9      | 0.87 | 2.80        | 54.3         | 102.5 | 7.9       |
| 105 | 7.8  | 41.8        | 37.3      | 0.89 | 3.36        | 53.3         | 118.7 | 2.7       |
| 105 | 9.6  | 42.0        | 37.5      | 0.89 | 3.29        | 53.2         | 116.1 | 3.9       |
| 105 | 10.8 | 42.1        | 37.5      | 0.89 | 3.25        | 53.2         | 114.9 | 4.7       |
| 105 | 12.0 | 42.2        | 37.6      | 0.89 | 3.23        | 53.2         | 113.9 | 5.6       |
| 105 | 12.6 | 42.2        | 37.6      | 0.89 | 3.21        | 53.2         | 113.4 | 6.1       |
| 105 | 13.2 | 42.3        | 37.7      | 0.89 | 3.20        | 53.2         | 113.1 | 6.6       |
| 105 | 14.4 | 42.3        | 37.7      | 0.89 | 3.18        | 53.2         | 112.4 | 7.7       |
| 115 | 7.8  | 39.0        | 35.9      | 0.92 | 3.77        | 51.9         | 128.3 | 2.6       |
| 115 | 9.6  | 39.3        | 36.2      | 0.92 | 3.70        | 51.9         | 125.8 | 3.7       |
| 115 | 10.8 | 39.4        | 36.3      | 0.92 | 3.67        | 51.9         | 124.6 | 4.6       |
| 115 | 12.0 | 39.5        | 36.4      | 0.92 | 3.64        | 51.9         | 123.7 | 5.5       |
| 115 | 12.6 | 39.5        | 36.4      | 0.92 | 3.63        | 51.9         | 123.2 | 6.0       |
| 115 | 13.2 | 39.6        | 36.5      | 0.92 | 3.62        | 52.0         | 122.9 | 6.5       |
| 115 | 14.4 | 39.6        | 36.5      | 0.92 | 3.60        | 51.9         | 122.2 | 7.5       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 12; Minimum CFM 1216; Rated CFM 1520; Maximum CFM 1824.

**Table 109. Heating capacities 4 tons (gross) -EXVG048**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 7.8  | 29.2          | 21.7         | 2.19        | 19.4 | 4.3       |
| 25  | 9.6  | 29.8          | 22.3         | 2.20        | 20.4 | 6.2       |
| 25  | 10.8 | 30.0          | 22.5         | 2.21        | 20.8 | 7.6       |
| 25  | 12.0 | 30.2          | 22.7         | 2.21        | 21.2 | 9.1       |
| 25  | 12.6 | 30.3          | 22.8         | 2.21        | 21.4 | 9.9       |
| 25  | 13.2 | 30.4          | 22.9         | 2.21        | 21.5 | 10.7      |
| 25  | 14.4 | 30.6          | 23.1         | 2.21        | 21.8 | 12.5      |
| 32  | 7.8  | 32.6          | 24.9         | 2.26        | 25.6 | 3.9       |
| 32  | 9.6  | 33.3          | 25.6         | 2.27        | 26.7 | 5.6       |
| 32  | 10.8 | 33.6          | 25.9         | 2.27        | 27.2 | 6.9       |
| 32  | 12.0 | 33.9          | 26.1         | 2.28        | 27.7 | 8.4       |
| 32  | 12.6 | 34.0          | 26.2         | 2.28        | 27.8 | 9.1       |
| 32  | 13.2 | 34.1          | 26.3         | 2.28        | 28.0 | 9.9       |
| 32  | 14.4 | 34.3          | 26.5         | 2.28        | 28.3 | 11.5      |
| 45  | 7.8  | 39.5          | 31.5         | 2.34        | 36.9 | 3.3       |
| 45  | 9.6  | 40.4          | 32.4         | 2.35        | 38.3 | 4.9       |
| 45  | 10.8 | 40.8          | 32.7         | 2.36        | 38.9 | 6.0       |
| 45  | 12.0 | 41.2          | 33.1         | 2.37        | 39.5 | 7.3       |
| 45  | 12.6 | 41.3          | 33.2         | 2.37        | 39.7 | 8.0       |
| 45  | 13.2 | 41.5          | 33.4         | 2.37        | 39.9 | 8.7       |
| 45  | 14.4 | 41.7          | 33.6         | 2.38        | 40.3 | 10.2      |



**Table 109. Heating capacities 4 tons (gross) -EXVG048 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 55  | 7.8  | 45.1          | 36.9         | 2.40        | 45.5 | 3.1       |
| 55  | 9.6  | 46.2          | 37.9         | 2.42        | 47.1 | 4.5       |
| 55  | 10.8 | 46.7          | 38.4         | 2.43        | 47.9 | 5.6       |
| 55  | 12.0 | 47.2          | 38.9         | 2.44        | 48.5 | 6.7       |
| 55  | 12.6 | 47.4          | 39.0         | 2.45        | 48.8 | 7.3       |
| 55  | 13.2 | 47.5          | 39.1         | 2.45        | 49.1 | 8.0       |
| 55  | 14.4 | 47.9          | 39.5         | 2.46        | 49.5 | 9.4       |
| 68  | 7.8  | 52.8          | 44.2         | 2.52        | 56.7 | 2.9       |
| 68  | 9.6  | 54.2          | 45.5         | 2.56        | 58.5 | 4.2       |
| 68  | 10.8 | 54.8          | 46.0         | 2.58        | 59.5 | 5.2       |
| 68  | 12.0 | 55.4          | 46.5         | 2.60        | 60.3 | 6.2       |
| 68  | 12.6 | 55.6          | 46.7         | 2.61        | 60.6 | 6.8       |
| 68  | 13.2 | 55.9          | 47.0         | 2.62        | 60.9 | 7.4       |
| 68  | 14.4 | 56.3          | 47.3         | 2.63        | 61.4 | 8.6       |
| 75  | 7.8  | 57.1          | 48.1         | 2.63        | 62.7 | 2.9       |
| 75  | 9.6  | 58.6          | 49.4         | 2.68        | 64.7 | 4.1       |
| 75  | 10.8 | 59.4          | 50.2         | 2.71        | 65.7 | 5.0       |
| 75  | 12.0 | 60.0          | 50.7         | 2.73        | 66.6 | 6.0       |
| 75  | 12.6 | 60.2          | 50.8         | 2.74        | 66.9 | 6.6       |
| 75  | 13.2 | 60.5          | 51.1         | 2.75        | 67.3 | 7.2       |
| 75  | 14.4 | 60.9          | 51.5         | 2.77        | 67.8 | 8.4       |
| 86  | 7.8  | 63.9          | 54.0         | 2.89        | 72.2 | 2.8       |
| 86  | 9.6  | 65.7          | 55.6         | 2.96        | 74.4 | 4.0       |
| 86  | 10.8 | 66.6          | 56.4         | 3.00        | 75.6 | 4.9       |
| 86  | 12.0 | 67.3          | 57.0         | 3.03        | 76.5 | 5.9       |
| 86  | 12.6 | 67.6          | 57.2         | 3.05        | 76.9 | 6.4       |
| 86  | 13.2 | 67.9          | 57.5         | 3.06        | 77.3 | 6.9       |
| 86  | 14.4 | 68.4          | 57.9         | 3.08        | 78.0 | 8.0       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 12; Minimum CFM 1216; Rated CFM 1520; Maximum CFM 1824.

**Table 110. Fan correction factors 4 tons - EXVG048**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1216         | 0.964            | 0.872             | 0.992               | 0.983            | 1.092               |
| 1292         | 0.974            | 0.905             | 0.995               | 0.988            | 1.065               |
| 1368         | 0.983            | 0.937             | 0.996               | 0.993            | 1.041               |
| 1444         | 0.992            | 0.969             | 0.998               | 0.997            | 1.019               |
| 1520         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1672         | 1.015            | 1.062             | 1.003               | 1.005            | 0.967               |
| 1748         | 1.021            | 1.094             | 1.005               | 1.008            | 0.953               |
| 1824         | 1.028            | 1.125             | 1.006               | 1.010            | 0.940               |

## Performance Data

**Table 111. Correction factors for variation in entering air temperature 4 tons, EXVG048**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.903               | 0.986                     | 0.938                                     | 1.009 | 1.068 | *     | *     | 53.0                            | 1.033               | 0.833                  |
| 56.3                            | 0.903               | 0.986                     | 0.813                                     | 0.954 | 1.058 | *     | *     | 58.0                            | 1.023               | 0.886                  |
| 60.3                            | 0.919               | 0.988                     | 0.656                                     | 0.855 | 1.001 | 1.112 | *     | 63.0                            | 1.012               | 0.942                  |
| 63.2                            | 0.958               | 0.993                     | 0.502                                     | 0.748 | 0.930 | 1.069 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.605 | 0.829 | 1.000 | 1.134 | 73.0                            | 0.987               | 1.061                  |
| 72.1                            | 1.104               | 1.025                     | —   | —     | 0.545 | 0.789 | 0.982 | 78.0                            | 0.972               | 1.125                  |
| 77.1                            | 1.197               | 1.058                     | —   | —     | —     | —     | 0.782 | 83.0                            | 0.957               | 1.190                  |

Note: \* = Sensible equals total capacity

**Table 112. Cooling capacities 4 tons (gross) -DXHF048**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 45  | 7.3  | 62.5        | 41.6      | 0.67 | 1.86     | 68.9         | 63.9  | 4.8       |
| 45  | 9.0  | 62.5        | 41.6      | 0.67 | 1.79     | 68.6         | 60.2  | 6.9       |
| 45  | 10.1 | 62.4        | 41.5      | 0.67 | 1.76     | 68.4         | 58.5  | 8.7       |
| 45  | 11.2 | 62.2        | 41.4      | 0.67 | 1.74     | 68.1         | 57.2  | 10.4      |
| 45  | 11.8 | 62.1        | 41.3      | 0.67 | 1.73     | 68.0         | 56.5  | 11.3      |
| 45  | 12.3 | 61.9        | 41.2      | 0.67 | 1.72     | 67.8         | 56.0  | 12.1      |
| 45  | 13.4 | 61.7        | 41.0      | 0.66 | 1.70     | 67.5         | 55.1  | 13.6      |
| 55  | 7.3  | 60.4        | 41.0      | 0.68 | 2.05     | 67.4         | 73.5  | 4.5       |
| 55  | 9.0  | 60.6        | 41.1      | 0.68 | 1.98     | 67.4         | 70.0  | 6.3       |
| 55  | 10.1 | 60.6        | 41.1      | 0.68 | 1.95     | 67.2         | 68.3  | 8.0       |
| 55  | 11.2 | 60.5        | 41.0      | 0.68 | 1.92     | 67.0         | 67.0  | 9.6       |
| 55  | 11.8 | 60.5        | 41.0      | 0.68 | 1.91     | 67.0         | 66.4  | 10.5      |
| 55  | 12.3 | 60.4        | 41.0      | 0.68 | 1.90     | 66.9         | 65.9  | 11.2      |
| 55  | 13.4 | 60.3        | 40.9      | 0.68 | 1.88     | 66.7         | 65.0  | 12.7      |
| 65  | 7.3  | 58.4        | 40.2      | 0.69 | 2.27     | 66.2         | 83.1  | 4.2       |
| 65  | 9.0  | 58.7        | 40.4      | 0.69 | 2.20     | 66.2         | 79.7  | 5.9       |
| 65  | 10.1 | 58.7        | 40.4      | 0.69 | 2.16     | 66.1         | 78.1  | 7.4       |
| 65  | 11.2 | 58.8        | 40.5      | 0.69 | 2.13     | 66.1         | 76.8  | 9.0       |
| 65  | 11.8 | 58.8        | 40.5      | 0.69 | 2.12     | 66.0         | 76.2  | 9.9       |
| 65  | 12.3 | 58.8        | 40.5      | 0.69 | 2.11     | 66.0         | 75.7  | 10.6      |
| 65  | 13.4 | 58.7        | 40.4      | 0.69 | 2.09     | 65.8         | 74.8  | 12.0      |
| 75  | 7.3  | 56.3        | 39.5      | 0.70 | 2.53     | 64.9         | 92.8  | 4.1       |
| 75  | 9.0  | 56.5        | 39.7      | 0.70 | 2.45     | 64.9         | 89.4  | 5.6       |
| 75  | 10.1 | 56.7        | 39.8      | 0.70 | 2.41     | 64.9         | 87.9  | 7.1       |
| 75  | 11.2 | 56.7        | 39.8      | 0.70 | 2.38     | 64.8         | 86.6  | 8.6       |
| 75  | 11.8 | 56.8        | 39.9      | 0.70 | 2.37     | 64.9         | 86.0  | 9.4       |
| 75  | 12.3 | 56.8        | 39.9      | 0.70 | 2.36     | 64.8         | 85.5  | 10.1      |
| 75  | 13.4 | 56.8        | 39.9      | 0.70 | 2.34     | 64.8         | 84.7  | 11.5      |
| 85  | 7.3  | 53.8        | 38.5      | 0.72 | 2.83     | 63.5         | 102.4 | 3.9       |
| 85  | 9.0  | 54.1        | 38.7      | 0.72 | 2.75     | 63.5         | 99.1  | 5.3       |
| 85  | 10.1 | 54.3        | 38.9      | 0.72 | 2.71     | 63.5         | 97.6  | 6.8       |

**Table 112. Cooling capacities 4 tons (gross) -DXHF048 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 85  | 11.2 | 54.4        | 39.0      | 0.72 | 2.67     | 63.5         | 96.3  | 8.3       |
| 85  | 11.8 | 54.4        | 39.0      | 0.72 | 2.66     | 63.5         | 95.8  | 9.1       |
| 85  | 12.3 | 54.4        | 39.0      | 0.72 | 2.65     | 63.4         | 95.3  | 9.7       |
| 85  | 13.4 | 54.5        | 39.0      | 0.72 | 2.63     | 63.5         | 94.5  | 11.1      |
| 95  | 7.3  | 51.1        | 37.5      | 0.73 | 3.18     | 61.9         | 112.0 | 3.8       |
| 95  | 9.0  | 51.4        | 37.7      | 0.73 | 3.09     | 61.9         | 108.8 | 5.2       |
| 95  | 10.1 | 51.6        | 37.8      | 0.73 | 3.04     | 62.0         | 107.3 | 6.5       |
| 95  | 11.2 | 51.7        | 37.9      | 0.73 | 3.01     | 62.0         | 106.1 | 8.0       |
| 95  | 11.8 | 51.7        | 37.9      | 0.73 | 3.00     | 61.9         | 105.5 | 8.8       |
| 95  | 12.3 | 51.7        | 37.9      | 0.73 | 2.98     | 61.9         | 105.1 | 9.4       |
| 95  | 13.4 | 51.8        | 38.0      | 0.73 | 2.96     | 61.9         | 104.2 | 10.8      |
| 105 | 7.3  | 48.2        | 36.3      | 0.75 | 3.57     | 60.4         | 121.5 | 3.7       |
| 105 | 9.0  | 48.4        | 36.5      | 0.75 | 3.48     | 60.3         | 118.4 | 5.0       |
| 105 | 10.1 | 48.6        | 36.6      | 0.75 | 3.43     | 60.3         | 116.9 | 6.4       |
| 105 | 11.2 | 48.7        | 36.7      | 0.75 | 3.40     | 60.3         | 115.8 | 7.8       |
| 105 | 11.8 | 48.7        | 36.7      | 0.75 | 3.38     | 60.2         | 115.2 | 8.6       |
| 105 | 12.3 | 48.7        | 36.7      | 0.75 | 3.37     | 60.2         | 114.8 | 9.2       |
| 105 | 13.4 | 48.8        | 36.8      | 0.75 | 3.35     | 60.2         | 114.0 | 10.6      |
| 115 | 7.3  | 45.0        | 35.1      | 0.78 | 4.03     | 58.7         | 131.1 | 3.6       |
| 115 | 9.0  | 45.2        | 35.3      | 0.78 | 3.93     | 58.6         | 128.0 | 4.9       |
| 115 | 10.1 | 45.3        | 35.3      | 0.78 | 3.88     | 58.5         | 126.6 | 6.2       |
| 115 | 11.2 | 45.4        | 35.4      | 0.78 | 3.84     | 58.5         | 125.4 | 7.6       |
| 115 | 11.8 | 45.5        | 35.5      | 0.78 | 3.83     | 58.6         | 124.9 | 8.4       |
| 115 | 12.3 | 45.5        | 35.5      | 0.78 | 3.81     | 58.5         | 124.5 | 9.0       |
| 115 | 13.4 | 45.5        | 35.5      | 0.78 | 3.79     | 58.4         | 123.7 | 10.3      |
| 120 | 7.3  | 43.3        | 34.4      | 0.79 | 4.27     | 57.9         | 135.9 | 3.6       |
| 120 | 9.0  | 43.6        | 34.7      | 0.80 | 4.17     | 57.8         | 132.8 | 4.8       |
| 120 | 10.1 | 43.7        | 34.7      | 0.79 | 4.12     | 57.8         | 131.4 | 6.1       |
| 120 | 11.2 | 43.7        | 34.7      | 0.79 | 4.08     | 57.6         | 130.3 | 7.5       |
| 120 | 11.8 | 43.7        | 34.7      | 0.79 | 4.07     | 57.6         | 129.8 | 8.3       |
| 120 | 12.3 | 43.8        | 34.8      | 0.79 | 4.05     | 57.6         | 129.4 | 8.9       |
| 120 | 13.4 | 43.8        | 34.8      | 0.79 | 4.03     | 57.5         | 128.6 | 10.3      |

**Note:** Cooling performance data is tabulated at 80°F DB/67°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 11.2, Rated CFM 1520, Minimum CFM 1216, Maximum CFM 1672.

**Table 113. Heating capacities 4 tons (gross) -DXHF048**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 25  | 11.2 | 34.3          | 25.6         | 2.54     | 20.4 | 13.7      |
| 25  | 11.8 | 34.6          | 25.9         | 2.55     | 20.6 | 14.8      |
| 25  | 12.3 | 34.8          | 26.1         | 2.56     | 20.8 | 15.7      |
| 25  | 13.4 | 35.2          | 26.4         | 2.57     | 21.1 | 17.5      |
| 35  | 7.3  | 38.0          | 29.0         | 2.65     | 27.1 | 5.3       |
| 35  | 9.0  | 39.3          | 30.2         | 2.67     | 28.3 | 7.8       |



## Performance Data

**Table 113. Heating capacities 4 tons (gross) -DXHF048 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 35  | 10.1 | 40.1          | 30.9         | 2.69     | 28.9 | 9.7       |
| 35  | 11.2 | 40.7          | 31.5         | 2.70     | 29.4 | 11.6      |
| 35  | 11.8 | 40.9          | 31.7         | 2.70     | 29.6 | 12.6      |
| 35  | 12.3 | 41.1          | 31.9         | 2.71     | 29.8 | 13.4      |
| 35  | 13.4 | 41.5          | 32.2         | 2.71     | 30.2 | 15.1      |
| 45  | 7.3  | 45.3          | 35.8         | 2.80     | 35.2 | 4.8       |
| 45  | 9.0  | 46.7          | 37.1         | 2.82     | 36.8 | 6.9       |
| 45  | 10.1 | 47.4          | 37.7         | 2.83     | 37.5 | 8.7       |
| 45  | 11.2 | 48.0          | 38.3         | 2.84     | 38.2 | 10.4      |
| 45  | 11.8 | 48.2          | 38.5         | 2.84     | 38.5 | 11.3      |
| 45  | 12.3 | 48.5          | 38.8         | 2.85     | 38.7 | 12.1      |
| 45  | 13.4 | 48.9          | 39.2         | 2.85     | 39.1 | 13.6      |
| 55  | 7.3  | 51.1          | 41.1         | 2.94     | 43.7 | 4.5       |
| 55  | 9.0  | 52.5          | 42.4         | 2.96     | 45.6 | 6.3       |
| 55  | 10.1 | 53.2          | 43.0         | 2.98     | 46.5 | 8.0       |
| 55  | 11.2 | 53.8          | 43.6         | 2.99     | 47.2 | 9.6       |
| 55  | 11.8 | 54.0          | 43.8         | 2.99     | 47.6 | 10.5      |
| 55  | 12.3 | 54.3          | 44.1         | 3.00     | 47.8 | 11.2      |
| 55  | 13.4 | 54.7          | 44.5         | 3.00     | 48.4 | 12.7      |
| 65  | 7.3  | 57.2          | 46.6         | 3.10     | 52.2 | 4.2       |
| 65  | 9.0  | 58.6          | 47.9         | 3.14     | 54.4 | 5.9       |
| 65  | 10.1 | 59.3          | 48.5         | 3.16     | 55.4 | 7.4       |
| 65  | 11.2 | 59.9          | 49.1         | 3.17     | 56.2 | 9.0       |
| 65  | 11.8 | 60.1          | 49.3         | 3.18     | 56.6 | 9.9       |
| 65  | 12.3 | 60.3          | 49.4         | 3.18     | 57.0 | 10.6      |
| 65  | 13.4 | 60.7          | 49.8         | 3.19     | 57.6 | 12.0      |
| 75  | 7.3  | 65.5          | 54.2         | 3.31     | 60.2 | 4.1       |
| 75  | 9.0  | 66.9          | 55.4         | 3.36     | 62.7 | 5.6       |
| 75  | 10.1 | 67.6          | 56.0         | 3.39     | 63.9 | 7.1       |
| 75  | 11.2 | 68.2          | 56.6         | 3.41     | 64.9 | 8.6       |
| 75  | 11.8 | 68.4          | 56.7         | 3.42     | 65.4 | 9.4       |
| 75  | 12.3 | 68.6          | 56.9         | 3.43     | 65.7 | 10.1      |
| 75  | 13.4 | 69.0          | 57.3         | 3.44     | 66.4 | 11.5      |
| 85  | 7.3  | 73.7          | 61.5         | 3.59     | 68.2 | 3.9       |
| 85  | 9.0  | 75.1          | 62.6         | 3.66     | 71.1 | 5.3       |
| 85  | 10.1 | 75.8          | 63.2         | 3.70     | 72.5 | 6.8       |
| 85  | 11.2 | 76.4          | 63.7         | 3.73     | 73.6 | 8.3       |
| 85  | 11.8 | 76.6          | 63.8         | 3.74     | 74.2 | 9.1       |
| 85  | 12.3 | 76.9          | 64.1         | 3.75     | 74.6 | 9.7       |
| 85  | 13.4 | 77.3          | 64.4         | 3.77     | 75.4 | 11.1      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 11.2, Rated CFM 1520, Minimum CFM 1216, Maximum CFM 1672.

**Table 114. Fan correction factors 3 tons - DXHF048**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1216         | 0.958            | 0.883             | 0.997              | 0.971            | 1.105              |
| 1368         | 0.981            | 0.941             | 0.999              | 0.987            | 1.047              |
| 1520         | 1.000            | 0.997             | 1.000              | 1.000            | 1.000              |
| 1672         | 1.016            | 1.050             | 1.001              | 1.011            | 0.963              |

**Table 115. Correction factors for variation in entering air temperature 4 tons, DXHF048**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  | 90.0  |                                 |                     |                        |
| 50.0                            | 0.916               | 0.991                     | 1.004                                     | 1.096 | *     | *     | *     | *     | 55.0                            | 1.066               | 0.870                  |
| 55.0                            | 0.901               | 0.989                     | 0.892                                     | 1.048 | 1.166 | *     | *     | *     | 58.0                            | 1.059               | 0.898                  |
| 60.0                            | 0.923               | 0.992                     | 0.653                                     | 0.894 | 1.076 | 1.219 | *     | *     | 61.0                            | 1.048               | 0.926                  |
| 65.0                            | 0.974               | 0.997                     | 0.292                                     | 0.626 | 0.880 | 1.081 | 1.245 | *     | 64.0                            | 1.035               | 0.952                  |
| 67.0                            | 1.000               | 1.000                     | —   | 0.490 | 0.775 | 1.000 | 1.184 | *     | 67.0                            | 1.020               | 0.977                  |
| 70.0                            | 1.045               | 1.004                     | —   | 0.261 | 0.591 | 0.853 | 1.068 | 1.247 | 70.0                            | 1.000               | 1.000                  |
| 75.0                            | 1.128               | 1.010                     | —   | —     | 0.227 | 0.552 | 0.817 | 1.040 | 73.0                            | 0.976               | 1.021                  |
| 78.0                            | 1.180               | 1.014                     | —   | —     | —     | 0.342 | 0.639 | 0.887 | 76.0                            | 0.947               | 1.039                  |

Note: \* = Sensible equals total capacity

**Table 116. Cooling capacities 4 tons (gross) -DXVG048**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 7.8  | 53.2        | 43.0      | 0.81 | 1.68        | 58.9         | 60.1 | 3.4       |
| 45  | 9.6  | 53.4        | 43.2      | 0.81 | 1.62        | 58.9         | 57.3 | 5.0       |
| 45  | 10.8 | 53.5        | 43.3      | 0.81 | 1.59        | 58.9         | 55.9 | 6.2       |
| 45  | 12.0 | 53.6        | 43.4      | 0.81 | 1.57        | 59.0         | 54.8 | 7.5       |
| 45  | 12.6 | 53.6        | 43.4      | 0.81 | 1.56        | 58.9         | 54.3 | 8.2       |
| 45  | 13.2 | 53.7        | 43.5      | 0.81 | 1.55        | 59.0         | 53.9 | 8.9       |
| 45  | 14.4 | 53.7        | 43.5      | 0.81 | 1.54        | 58.9         | 53.2 | 10.4      |
| 55  | 7.8  | 51.5        | 42.0      | 0.82 | 1.88        | 57.9         | 69.8 | 3.2       |
| 55  | 9.6  | 51.7        | 42.2      | 0.82 | 1.82        | 57.9         | 67.1 | 4.7       |
| 55  | 10.8 | 51.8        | 42.3      | 0.82 | 1.79        | 57.9         | 65.7 | 5.8       |
| 55  | 12.0 | 51.9        | 42.3      | 0.82 | 1.77        | 57.9         | 64.7 | 7.0       |
| 55  | 12.6 | 51.9        | 42.3      | 0.82 | 1.76        | 57.9         | 64.2 | 7.7       |
| 55  | 13.2 | 52.0        | 42.4      | 0.82 | 1.75        | 58.0         | 63.8 | 8.3       |
| 55  | 14.4 | 52.0        | 42.4      | 0.82 | 1.74        | 57.9         | 63.0 | 9.7       |
| 68  | 7.8  | 49.0        | 40.7      | 0.83 | 2.14        | 56.3         | 82.4 | 3.1       |
| 68  | 9.6  | 49.2        | 40.9      | 0.83 | 2.08        | 56.3         | 79.7 | 4.5       |
| 68  | 10.8 | 49.3        | 41.0      | 0.83 | 2.06        | 56.3         | 78.4 | 5.5       |
| 68  | 12.0 | 49.4        | 41.0      | 0.83 | 2.03        | 56.3         | 77.4 | 6.6       |
| 68  | 12.6 | 49.4        | 41.0      | 0.83 | 2.02        | 56.3         | 76.9 | 7.2       |
| 68  | 13.2 | 49.5        | 41.1      | 0.83 | 2.02        | 56.4         | 76.5 | 7.9       |
| 68  | 14.4 | 49.5        | 41.1      | 0.83 | 2.00        | 56.3         | 75.8 | 9.2       |
| 75  | 7.8  | 47.8        | 40.2      | 0.84 | 2.29        | 55.6         | 89.3 | 3.1       |



## Performance Data

**Table 116. Cooling capacities 4 tons (gross) -DXVG048 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 75  | 9.6  | 48.1        | 40.4      | 0.84 | 2.23        | 55.7         | 86.6  | 4.4       |
| 75  | 10.8 | 48.2        | 40.5      | 0.84 | 2.20        | 55.7         | 85.3  | 5.4       |
| 75  | 12.0 | 48.3        | 40.6      | 0.84 | 2.18        | 55.7         | 84.3  | 6.5       |
| 75  | 12.6 | 48.3        | 40.6      | 0.84 | 2.17        | 55.7         | 83.8  | 7.1       |
| 75  | 13.2 | 48.3        | 40.6      | 0.84 | 2.16        | 55.7         | 83.4  | 7.7       |
| 75  | 14.4 | 48.4        | 40.7      | 0.84 | 2.15        | 55.7         | 82.7  | 9.0       |
| 86  | 7.8  | 46.0        | 39.4      | 0.86 | 2.57        | 54.8         | 100.1 | 3.1       |
| 86  | 9.6  | 46.2        | 39.6      | 0.86 | 2.51        | 54.8         | 97.4  | 4.4       |
| 86  | 10.8 | 46.3        | 39.7      | 0.86 | 2.49        | 54.8         | 96.1  | 5.3       |
| 86  | 12.0 | 46.4        | 39.8      | 0.86 | 2.46        | 54.8         | 95.1  | 6.4       |
| 86  | 12.6 | 46.4        | 39.8      | 0.86 | 2.45        | 54.8         | 94.7  | 6.9       |
| 86  | 13.2 | 46.5        | 39.9      | 0.86 | 2.45        | 54.8         | 94.3  | 7.5       |
| 86  | 14.4 | 46.5        | 39.9      | 0.86 | 2.43        | 54.8         | 93.6  | 8.8       |
| 95  | 7.8  | 44.2        | 38.6      | 0.87 | 2.85        | 53.9         | 108.8 | 3.1       |
| 95  | 9.6  | 44.5        | 38.9      | 0.87 | 2.79        | 54.0         | 106.3 | 4.3       |
| 95  | 10.8 | 44.6        | 38.9      | 0.87 | 2.76        | 54.0         | 105.0 | 5.3       |
| 95  | 12.0 | 44.6        | 38.9      | 0.87 | 2.74        | 54.0         | 104.0 | 6.3       |
| 95  | 12.6 | 44.7        | 39.0      | 0.87 | 2.73        | 54.0         | 103.6 | 6.9       |
| 95  | 13.2 | 44.7        | 39.0      | 0.87 | 2.72        | 54.0         | 103.2 | 7.4       |
| 95  | 14.4 | 44.8        | 39.1      | 0.87 | 2.71        | 54.0         | 102.5 | 8.6       |
| 105 | 7.8  | 42.0        | 37.6      | 0.90 | 3.20        | 52.9         | 118.6 | 3.0       |
| 105 | 9.6  | 42.2        | 37.7      | 0.89 | 3.14        | 52.9         | 116.0 | 4.3       |
| 105 | 10.8 | 42.3        | 37.8      | 0.89 | 3.11        | 52.9         | 114.8 | 5.2       |
| 105 | 12.0 | 42.4        | 37.9      | 0.89 | 3.09        | 52.9         | 113.8 | 6.2       |
| 105 | 12.6 | 42.5        | 38.0      | 0.89 | 3.08        | 53.0         | 113.4 | 6.8       |
| 105 | 13.2 | 42.5        | 38.0      | 0.89 | 3.07        | 53.0         | 113.0 | 7.3       |
| 105 | 14.4 | 42.5        | 38.0      | 0.89 | 3.06        | 52.9         | 112.3 | 8.5       |
| 115 | 7.8  | 39.6        | 36.5      | 0.92 | 3.56        | 51.8         | 128.3 | 2.9       |
| 115 | 9.6  | 39.8        | 36.6      | 0.92 | 3.50        | 51.8         | 125.8 | 4.1       |
| 115 | 10.8 | 39.9        | 36.7      | 0.92 | 3.48        | 51.8         | 124.6 | 5.1       |
| 115 | 12.0 | 40.0        | 36.8      | 0.92 | 3.45        | 51.8         | 123.6 | 6.1       |
| 115 | 12.6 | 40.0        | 36.8      | 0.92 | 3.45        | 51.8         | 123.2 | 6.6       |
| 115 | 13.2 | 40.1        | 36.9      | 0.92 | 3.44        | 51.8         | 122.8 | 7.2       |
| 115 | 14.4 | 40.1        | 36.9      | 0.92 | 3.42        | 51.8         | 122.2 | 8.4       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHR/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 12; Minimum CFM 1216; Rated CFM 1520; Maximum CFM 1824.

**Table 117. Heating capacities 4 tons (gross) -DXVG048**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 7.8  | 29.2          | 21.7         | 2.19        | 19.4 | 4.3       |
| 25  | 9.6  | 29.8          | 22.3         | 2.20        | 20.4 | 6.2       |
| 25  | 10.8 | 30.0          | 22.5         | 2.21        | 20.8 | 7.6       |

**Table 117. Heating capacities 4 tons (gross) -DXVG048 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 12.0 | 30.2          | 22.7         | 2.21        | 21.2 | 9.1       |
| 25  | 12.6 | 30.3          | 22.8         | 2.21        | 21.4 | 9.9       |
| 25  | 13.2 | 30.4          | 22.9         | 2.21        | 21.5 | 10.7      |
| 25  | 14.4 | 30.6          | 23.1         | 2.21        | 21.8 | 12.5      |
| 32  | 7.8  | 32.6          | 24.9         | 2.26        | 25.6 | 3.9       |
| 32  | 9.6  | 33.3          | 25.6         | 2.27        | 26.7 | 5.6       |
| 32  | 10.8 | 33.6          | 25.9         | 2.27        | 27.2 | 6.9       |
| 32  | 12.0 | 33.9          | 26.1         | 2.28        | 27.7 | 8.4       |
| 32  | 12.6 | 34.0          | 26.2         | 2.28        | 27.8 | 9.1       |
| 32  | 13.2 | 34.1          | 26.3         | 2.28        | 28.0 | 9.9       |
| 32  | 14.4 | 34.3          | 26.5         | 2.28        | 28.3 | 11.5      |
| 45  | 7.8  | 39.5          | 31.5         | 2.34        | 36.9 | 3.3       |
| 45  | 9.6  | 40.4          | 32.4         | 2.35        | 38.3 | 4.9       |
| 45  | 10.8 | 40.8          | 32.7         | 2.36        | 38.9 | 6.0       |
| 45  | 12.0 | 41.2          | 33.1         | 2.37        | 39.5 | 7.3       |
| 45  | 12.6 | 41.3          | 33.2         | 2.37        | 39.7 | 8.0       |
| 45  | 13.2 | 41.5          | 33.4         | 2.37        | 39.9 | 8.7       |
| 45  | 14.4 | 41.7          | 33.6         | 2.38        | 40.3 | 10.2      |
| 55  | 7.8  | 45.1          | 36.9         | 2.40        | 45.5 | 3.1       |
| 55  | 9.6  | 46.2          | 37.9         | 2.42        | 47.1 | 4.5       |
| 55  | 10.8 | 46.7          | 38.4         | 2.43        | 47.9 | 5.6       |
| 55  | 12.0 | 47.2          | 38.9         | 2.44        | 48.5 | 6.7       |
| 55  | 12.6 | 47.4          | 39.0         | 2.45        | 48.8 | 7.3       |
| 55  | 13.2 | 47.5          | 39.1         | 2.45        | 49.1 | 8.0       |
| 55  | 14.4 | 47.9          | 39.5         | 2.46        | 49.5 | 9.4       |
| 68  | 7.8  | 52.8          | 44.2         | 2.52        | 56.7 | 2.9       |
| 68  | 9.6  | 54.2          | 45.5         | 2.56        | 58.5 | 4.2       |
| 68  | 10.8 | 54.8          | 46.0         | 2.58        | 59.5 | 5.2       |
| 68  | 12.0 | 55.4          | 46.5         | 2.60        | 60.3 | 6.2       |
| 68  | 12.6 | 55.6          | 46.7         | 2.61        | 60.6 | 6.8       |
| 68  | 13.2 | 55.9          | 47.0         | 2.62        | 60.9 | 7.4       |
| 68  | 14.4 | 56.3          | 47.3         | 2.63        | 61.4 | 8.6       |
| 75  | 7.8  | 57.1          | 48.1         | 2.63        | 62.7 | 2.9       |
| 75  | 9.6  | 58.6          | 49.4         | 2.68        | 64.7 | 4.1       |
| 75  | 10.8 | 59.4          | 50.2         | 2.71        | 65.7 | 5.0       |
| 75  | 12.0 | 60.0          | 50.7         | 2.73        | 66.6 | 6.0       |
| 75  | 12.6 | 60.2          | 50.8         | 2.74        | 66.9 | 6.6       |
| 75  | 13.2 | 60.5          | 51.1         | 2.75        | 67.3 | 7.2       |
| 75  | 14.4 | 60.9          | 51.5         | 2.77        | 67.8 | 8.4       |
| 86  | 7.8  | 63.9          | 54.0         | 2.89        | 72.2 | 2.8       |
| 86  | 9.6  | 65.7          | 55.6         | 2.96        | 74.4 | 4.0       |



## Performance Data

**Table 117. Heating capacities 4 tons (gross) -DXVG048 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 86  | 10.8 | 66.6          | 56.4         | 3.00        | 75.6 | 4.9       |
| 86  | 12.0 | 67.3          | 57.0         | 3.03        | 76.5 | 5.9       |
| 86  | 12.6 | 67.6          | 57.2         | 3.05        | 76.9 | 6.4       |
| 86  | 13.2 | 67.9          | 57.5         | 3.06        | 77.3 | 6.9       |
| 86  | 14.4 | 68.4          | 57.9         | 3.08        | 78.0 | 8.0       |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 12; Minimum CFM 1216; Rated CFM 1520; Maximum CFM 1824.

**Table 118. Fan correction factors 4 tons - DXVG048**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1216         | 0.962            | 0.872             | 0.996               | 0.996            | 1.078               |
| 1292         | 0.972            | 0.905             | 0.997               | 0.997            | 1.055               |
| 1368         | 0.982            | 0.937             | 0.998               | 0.998            | 1.034               |
| 1444         | 0.991            | 0.969             | 0.999               | 0.999            | 1.016               |
| 1520         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 1672         | 1.015            | 1.062             | 1.002               | 1.002            | 0.972               |
| 1748         | 1.022            | 1.094             | 1.002               | 1.002            | 0.961               |
| 1824         | 1.029            | 1.125             | 1.003               | 1.003            | 0.950               |

**Table 119. Correction factors for variation in entering air temperature 4 tons, DXVG048**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  |                                 |                     |                        |
| 49.4                            | 0.900               | 0.999                     | 0.930                                     | 0.998 | 1.048 | *     | *     | 53.0                            | 1.046               | 0.860                  |
| 56.3                            | 0.900               | 0.998                     | 0.807                                     | 0.951 | 1.052 | *     | *     | 58.0                            | 1.031               | 0.905                  |
| 60.3                            | 0.916               | 0.999                     | 0.653                                     | 0.854 | 0.999 | 1.107 | *     | 63.0                            | 1.016               | 0.951                  |
| 63.2                            | 0.956               | 0.999                     | 0.502                                     | 0.748 | 0.930 | 1.067 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.606 | 0.831 | 1.000 | 1.132 | 73.0                            | 0.984               | 1.052                  |
| 72.1                            | 1.112               | 1.003                     | —   | —     | 0.549 | 0.793 | 0.984 | 78.0                            | 0.968               | 1.106                  |
| 77.1                            | 1.213               | 1.007                     | —   | —     | —     | —     | 0.787 | 83.0                            | 0.951               | 1.163                  |

**Note:** \* = Sensible equals total capacity

## Cooling and Heating Capacities 5 tons

**Table 120. Cooling capacities 5 tons (gross) -EXHF060**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|------|-----------|
| 45  | 9.4  | 69.49       | 49.89     | 0.72 | 2.064    | 33.7 | 76.53        | 61.3 | 3.9       |
| 45  | 11.6 | 69.89       | 49.99     | 0.72 | 1.974    | 35.4 | 76.63        | 58.2 | 5.7       |
| 45  | 13.1 | 69.99       | 50.09     | 0.72 | 1.934    | 36.2 | 76.59        | 56.7 | 7.0       |
| 45  | 14.0 | 69.99       | 49.99     | 0.71 | 1.914    | 36.6 | 76.52        | 55.9 | 7.9       |
| 45  | 15.2 | 70.19       | 50.19     | 0.72 | 1.884    | 37.3 | 76.62        | 55.1 | 9.2       |
| 45  | 16.0 | 70.19       | 50.09     | 0.71 | 1.874    | 37.5 | 76.59        | 54.6 | 10.0      |
| 45  | 17.4 | 70.29       | 50.19     | 0.71 | 1.854    | 37.9 | 76.62        | 53.8 | 11.6      |
| 55  | 9.4  | 67.19       | 48.99     | 0.73 | 2.394    | 28.1 | 75.36        | 71.0 | 3.8       |



**Table 120. Cooling capacities 5 tons (gross) -EXHF060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 55  | 11.6 | 67.49       | 49.09     | 0.73 | 2.304    | 29.3 | 75.35        | 68.0  | 5.5       |
| 55  | 13.1 | 67.59       | 49.09     | 0.73 | 2.264    | 29.9 | 75.32        | 66.5  | 6.8       |
| 55  | 14.0 | 67.69       | 49.19     | 0.73 | 2.244    | 30.2 | 75.35        | 65.8  | 7.6       |
| 55  | 15.2 | 67.69       | 49.19     | 0.73 | 2.214    | 30.6 | 75.25        | 64.9  | 8.8       |
| 55  | 16.0 | 67.79       | 49.19     | 0.73 | 2.204    | 30.8 | 75.31        | 64.4  | 9.6       |
| 55  | 17.4 | 67.89       | 49.29     | 0.73 | 2.184    | 31.1 | 75.34        | 63.7  | 11.2      |
| 68  | 9.4  | 64.99       | 48.39     | 0.74 | 2.844    | 22.9 | 74.70        | 83.9  | 3.7       |
| 68  | 11.6 | 65.29       | 48.49     | 0.74 | 2.764    | 23.6 | 74.72        | 80.9  | 5.4       |
| 68  | 13.1 | 65.49       | 48.59     | 0.74 | 2.714    | 24.1 | 74.75        | 79.4  | 6.7       |
| 68  | 14.0 | 65.49       | 48.59     | 0.74 | 2.694    | 24.3 | 74.68        | 78.7  | 7.5       |
| 68  | 15.2 | 65.59       | 48.59     | 0.74 | 2.674    | 24.5 | 74.72        | 77.8  | 8.7       |
| 68  | 16.0 | 65.59       | 48.69     | 0.74 | 2.664    | 24.6 | 74.68        | 77.3  | 9.5       |
| 68  | 17.4 | 65.69       | 48.69     | 0.74 | 2.634    | 24.9 | 74.68        | 76.6  | 11.0      |
| 75  | 9.4  | 64.49       | 48.19     | 0.75 | 2.924    | 22.1 | 74.47        | 90.8  | 3.6       |
| 75  | 11.6 | 64.79       | 48.29     | 0.75 | 2.834    | 22.9 | 74.46        | 87.8  | 5.2       |
| 75  | 13.1 | 64.99       | 48.39     | 0.74 | 2.794    | 23.3 | 74.53        | 86.4  | 6.5       |
| 75  | 14.0 | 64.99       | 48.39     | 0.74 | 2.764    | 23.5 | 74.42        | 85.6  | 7.3       |
| 75  | 15.2 | 65.09       | 48.39     | 0.74 | 2.744    | 23.7 | 74.46        | 84.8  | 8.4       |
| 75  | 16.0 | 65.09       | 48.39     | 0.74 | 2.734    | 23.8 | 74.42        | 84.3  | 9.2       |
| 75  | 17.4 | 65.19       | 48.39     | 0.74 | 2.704    | 24.1 | 74.42        | 83.6  | 10.7      |
| 77  | 9.4  | 62.69       | 47.49     | 0.76 | 3.184    | 19.7 | 73.56        | 92.7  | 3.6       |
| 77  | 11.6 | 62.89       | 47.39     | 0.75 | 3.094    | 20.3 | 73.45        | 89.7  | 5.2       |
| 77  | 13.1 | 63.09       | 47.49     | 0.75 | 3.054    | 20.7 | 73.51        | 88.2  | 6.4       |
| 77  | 14.0 | 63.09       | 47.49     | 0.75 | 3.024    | 20.9 | 73.41        | 87.5  | 7.2       |
| 77  | 15.2 | 63.19       | 47.49     | 0.75 | 3.004    | 21.0 | 73.44        | 86.7  | 8.3       |
| 77  | 16.0 | 63.29       | 47.49     | 0.75 | 2.984    | 21.2 | 73.47        | 86.2  | 9.1       |
| 77  | 17.4 | 63.29       | 47.49     | 0.75 | 2.964    | 21.4 | 73.41        | 85.4  | 10.6      |
| 86  | 9.4  | 59.39       | 45.69     | 0.77 | 3.544    | 16.8 | 71.49        | 101.2 | 3.6       |
| 86  | 11.6 | 59.69       | 45.79     | 0.77 | 3.434    | 17.4 | 71.41        | 98.3  | 5.2       |
| 86  | 13.1 | 59.79       | 45.89     | 0.77 | 3.394    | 17.6 | 71.37        | 96.9  | 6.4       |
| 86  | 14.0 | 59.89       | 45.79     | 0.76 | 3.364    | 17.8 | 71.37        | 96.2  | 7.2       |
| 86  | 15.2 | 59.99       | 45.99     | 0.77 | 3.344    | 17.9 | 71.40        | 95.4  | 8.3       |
| 86  | 16.0 | 59.99       | 45.79     | 0.76 | 3.324    | 18.0 | 71.33        | 94.9  | 9.1       |
| 86  | 17.4 | 59.99       | 45.89     | 0.76 | 3.304    | 18.2 | 71.27        | 94.2  | 10.6      |
| 95  | 9.4  | 56.79       | 44.79     | 0.79 | 3.954    | 14.4 | 70.29        | 110.0 | 3.5       |
| 95  | 11.6 | 56.99       | 44.79     | 0.79 | 3.854    | 14.8 | 70.14        | 107.1 | 5.0       |
| 95  | 13.1 | 57.19       | 44.89     | 0.78 | 3.804    | 15.0 | 70.17        | 105.7 | 6.2       |
| 95  | 14.0 | 57.19       | 44.89     | 0.78 | 3.774    | 15.2 | 70.07        | 105.0 | 7.0       |
| 95  | 15.2 | 57.29       | 44.89     | 0.78 | 3.754    | 15.3 | 70.10        | 104.2 | 8.1       |
| 95  | 16.0 | 57.29       | 44.89     | 0.78 | 3.734    | 15.3 | 70.03        | 103.8 | 8.9       |
| 95  | 17.4 | 57.39       | 44.99     | 0.78 | 3.704    | 15.5 | 70.03        | 103.0 | 10.3      |
| 105 | 9.4  | 53.59       | 43.19     | 0.81 | 4.474    | 12.0 | 68.86        | 119.7 | 3.4       |
| 105 | 11.6 | 53.89       | 43.49     | 0.81 | 4.364    | 12.3 | 68.78        | 116.9 | 4.9       |



## Performance Data

**Table 120. Cooling capacities 5 tons (gross) -EXHF060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 105 | 13.1 | 53.99       | 43.59     | 0.81 | 4.304    | 12.5 | 68.68        | 115.5 | 6.1       |
| 105 | 14.0 | 53.99       | 43.39     | 0.80 | 4.284    | 12.6 | 68.61        | 114.8 | 6.8       |
| 105 | 15.2 | 54.09       | 43.59     | 0.81 | 4.254    | 12.7 | 68.61        | 114.0 | 7.9       |
| 105 | 16.0 | 54.19       | 43.49     | 0.80 | 4.234    | 12.8 | 68.64        | 113.6 | 8.6       |
| 105 | 17.4 | 54.29       | 43.69     | 0.80 | 4.204    | 12.9 | 68.64        | 112.9 | 10.0      |
| 115 | 9.4  | 50.09       | 41.79     | 0.83 | 5.064    | 9.9  | 67.37        | 129.3 | 3.3       |
| 115 | 11.6 | 50.29       | 41.99     | 0.83 | 4.944    | 10.2 | 67.16        | 126.6 | 4.8       |
| 115 | 13.1 | 50.49       | 41.99     | 0.83 | 4.884    | 10.3 | 67.16        | 125.3 | 5.9       |
| 115 | 14.0 | 50.49       | 42.09     | 0.83 | 4.854    | 10.4 | 67.06        | 124.6 | 6.6       |
| 115 | 15.2 | 50.69       | 42.19     | 0.83 | 4.824    | 10.5 | 67.15        | 123.8 | 7.7       |
| 115 | 16.0 | 50.69       | 41.99     | 0.83 | 4.814    | 10.5 | 67.12        | 123.4 | 8.4       |
| 115 | 17.4 | 50.69       | 41.99     | 0.83 | 4.784    | 10.6 | 67.02        | 122.7 | 9.7       |
| 120 | 9.4  | 48.19       | 40.99     | 0.85 | 5.384    | 9.0  | 66.57        | 134.2 | 3.2       |
| 120 | 11.6 | 48.49       | 41.09     | 0.85 | 5.264    | 9.2  | 66.46        | 131.5 | 4.7       |
| 120 | 13.1 | 48.59       | 41.19     | 0.85 | 5.204    | 9.3  | 66.35        | 130.1 | 5.8       |
| 120 | 14.0 | 48.69       | 41.29     | 0.85 | 5.174    | 9.4  | 66.35        | 129.5 | 6.6       |
| 120 | 15.2 | 48.69       | 41.29     | 0.85 | 5.154    | 9.4  | 66.28        | 128.7 | 7.6       |
| 120 | 16.0 | 48.79       | 41.29     | 0.85 | 5.124    | 9.5  | 66.28        | 128.3 | 8.3       |
| 120 | 17.4 | 48.79       | 41.29     | 0.85 | 5.104    | 9.6  | 66.21        | 127.6 | 9.6       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 14.0, Rated CFM 1700, Minimum CFM 1360, Maximum CFM 1870.

**Table 121. Heating capacities 5 tons (gross) -EXHF060**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 25  | 14.0 | 43.68         | 32.14        | 3.381    | 3.8 | 20.4 | 6.8       |
| 25  | 15.2 | 43.98         | 32.37        | 3.401    | 3.8 | 20.7 | 7.8       |
| 25  | 16.0 | 44.08         | 32.51        | 3.391    | 3.8 | 20.9 | 8.5       |
| 25  | 17.4 | 44.28         | 32.67        | 3.401    | 3.8 | 21.2 | 9.9       |
| 32  | 9.4  | 46.38         | 34.67        | 3.431    | 4.0 | 24.6 | 3.3       |
| 32  | 11.6 | 47.48         | 35.67        | 3.461    | 4.0 | 25.9 | 4.7       |
| 32  | 13.1 | 47.98         | 36.13        | 3.471    | 4.1 | 26.5 | 5.9       |
| 32  | 14.0 | 48.18         | 36.30        | 3.481    | 4.1 | 26.8 | 6.6       |
| 32  | 15.2 | 48.48         | 36.60        | 3.481    | 4.1 | 27.2 | 7.6       |
| 32  | 16.0 | 48.68         | 36.77        | 3.491    | 4.1 | 27.4 | 8.3       |
| 32  | 17.4 | 48.98         | 37.07        | 3.491    | 4.1 | 27.7 | 9.6       |
| 45  | 9.4  | 56.58         | 43.71        | 3.771    | 4.4 | 35.7 | 3.9       |
| 45  | 11.6 | 57.98         | 45.01        | 3.801    | 4.5 | 37.2 | 5.7       |
| 45  | 13.1 | 58.48         | 45.47        | 3.811    | 4.5 | 38.1 | 7.0       |
| 45  | 14.0 | 58.68         | 45.64        | 3.821    | 4.5 | 38.5 | 7.9       |
| 45  | 15.2 | 59.18         | 46.07        | 3.841    | 4.5 | 38.9 | 9.2       |
| 45  | 16.0 | 59.38         | 46.27        | 3.841    | 4.5 | 39.2 | 10.0      |
| 45  | 17.4 | 59.78         | 46.64        | 3.851    | 4.5 | 39.6 | 11.6      |
| 55  | 9.4  | 63.98         | 50.43        | 3.971    | 4.7 | 44.3 | 3.8       |

**Table 121. Heating capacities 5 tons (gross) -EXHF060 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 55  | 11.6 | 65.38         | 51.72        | 4.001    | 4.8 | 46.1 | 5.5       |
| 55  | 13.1 | 66.28         | 52.49        | 4.041    | 4.8 | 47.0 | 6.8       |
| 55  | 14.0 | 66.68         | 52.85        | 4.051    | 4.8 | 47.5 | 7.6       |
| 55  | 15.2 | 67.08         | 53.22        | 4.061    | 4.8 | 48.0 | 8.8       |
| 55  | 16.0 | 67.28         | 53.42        | 4.061    | 4.9 | 48.3 | 9.6       |
| 55  | 17.4 | 67.68         | 53.79        | 4.071    | 4.9 | 48.8 | 11.2      |
| 68  | 9.4  | 75.08         | 60.06        | 4.401    | 5.0 | 55.2 | 3.7       |
| 68  | 11.6 | 76.78         | 61.59        | 4.451    | 5.1 | 57.4 | 5.4       |
| 68  | 13.1 | 77.58         | 62.32        | 4.471    | 5.1 | 58.5 | 6.7       |
| 68  | 14.0 | 77.98         | 62.69        | 4.481    | 5.1 | 59.0 | 7.5       |
| 68  | 15.2 | 78.48         | 63.12        | 4.501    | 5.1 | 59.7 | 8.7       |
| 68  | 16.0 | 78.68         | 63.32        | 4.501    | 5.1 | 60.1 | 9.5       |
| 68  | 17.4 | 79.18         | 63.75        | 4.521    | 5.1 | 60.7 | 11.0      |
| 75  | 9.4  | 80.58         | 64.95        | 4.581    | 5.2 | 61.2 | 3.6       |
| 75  | 11.6 | 82.48         | 66.61        | 4.651    | 5.2 | 63.5 | 5.2       |
| 75  | 13.1 | 84.08         | 68.04        | 4.701    | 5.2 | 64.6 | 6.5       |
| 75  | 14.0 | 84.18         | 68.14        | 4.701    | 5.2 | 65.3 | 7.3       |
| 75  | 15.2 | 84.98         | 68.87        | 4.721    | 5.3 | 65.9 | 8.4       |
| 75  | 16.0 | 85.18         | 69.03        | 4.731    | 5.3 | 66.4 | 9.2       |
| 75  | 17.4 | 85.48         | 69.30        | 4.741    | 5.3 | 67.0 | 10.7      |
| 77  | 9.4  | 88.38         | 71.76        | 4.871    | 5.3 | 61.7 | 3.6       |
| 77  | 11.6 | 90.48         | 73.62        | 4.941    | 5.4 | 64.3 | 5.2       |
| 77  | 13.1 | 91.88         | 74.85        | 4.991    | 5.4 | 65.6 | 6.4       |
| 77  | 14.0 | 92.18         | 75.11        | 5.001    | 5.4 | 66.3 | 7.2       |
| 77  | 15.2 | 92.88         | 75.74        | 5.021    | 5.4 | 67.0 | 8.3       |
| 77  | 16.0 | 93.08         | 75.91        | 5.031    | 5.4 | 67.5 | 9.1       |
| 77  | 17.4 | 93.58         | 76.34        | 5.051    | 5.4 | 68.2 | 10.6      |
| 86  | 9.4  | 90.08         | 73.25        | 4.931    | 5.4 | 70.4 | 3.6       |
| 86  | 11.6 | 92.28         | 75.18        | 5.011    | 5.4 | 73.0 | 5.2       |
| 86  | 13.1 | 93.58         | 76.31        | 5.061    | 5.4 | 74.3 | 6.4       |
| 86  | 14.0 | 93.98         | 76.67        | 5.071    | 5.4 | 75.0 | 7.2       |
| 86  | 15.2 | 94.58         | 77.20        | 5.091    | 5.4 | 75.8 | 8.3       |
| 86  | 16.0 | 94.88         | 77.47        | 5.101    | 5.4 | 76.3 | 9.1       |
| 86  | 17.4 | 95.38         | 77.90        | 5.121    | 5.5 | 77.0 | 10.6      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 14.0, Rated CFM 1700, Minimum CFM 1360, Maximum CFM 1870.

**Table 122. Fan correction factors 5 tons - EXHF060**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1360         | 0.954            | 0.879             | 1.000              | 0.982            | 1.097              |
| 1530         | 0.979            | 0.941             | 0.999              | 0.991            | 1.042              |
| 1700         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1870         | 1.018            | 1.060             | 1.001              | 1.009            | 0.969              |



## Performance Data

**Table 123. Correction factors for variation in entering air temperature 5 tons, EXHF060**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.921               | 1.001                     | 1.012                                     | 1.082 | 1.152 | *     | *     | 53.0                            | 1.034               | 0.865                  |
| 56.3                            | 0.920               | 1.001                     | 0.814                                     | 1.033 | 1.151 | *     | *     | 58.0                            | 1.026               | 0.910                  |
| 60.3                            | 0.920               | 1.001                     | 0.627                                     | 0.843 | 1.062 | *     | *     | 63.0                            | 1.009               | 0.952                  |
| 63.2                            | 0.950               | 1.003                     | 0.489                                     | 0.711 | 0.924 | 1.142 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.561 | 0.782 | 1.000 | 1.219 | 73.0                            | 0.991               | 1.050                  |
| 72.1                            | 1.100               | 1.001                     | —   | —     | 0.491 | 0.708 | 0.928 | 78.0                            | 0.979               | 1.101                  |
| 77.1                            | 1.191               | 1.002                     | —   | —     | —     | 0.458 | 0.676 | 83.0                            | 0.968               | 1.154                  |

Note: \* = Sensible equals total capacity

**Table 124. Cooling capacities 5 tons (gross) -EXVG060**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------------|--------------|------|-----------|
| 45  | 9.8  | 63.6        | 52.8      | 0.83 | 2.05           | 70.6         | 59.4 | 6.3       |
| 45  | 12.0 | 63.5        | 52.7      | 0.83 | 2.04           | 70.5         | 56.8 | 9.1       |
| 45  | 13.5 | 63.5        | 52.7      | 0.83 | 2.04           | 70.4         | 55.4 | 11.3      |
| 45  | 15.0 | 63.4        | 52.6      | 0.83 | 2.03           | 70.3         | 54.4 | 13.6      |
| 45  | 15.8 | 63.4        | 52.6      | 0.83 | 2.03           | 70.3         | 53.9 | 15.0      |
| 45  | 16.5 | 63.4        | 52.6      | 0.83 | 2.03           | 70.3         | 53.5 | 16.2      |
| 45  | 18.0 | 63.4        | 52.6      | 0.83 | 2.03           | 70.3         | 52.8 | 18.9      |
| 55  | 9.8  | 62.3        | 52.0      | 0.83 | 2.18           | 69.7         | 69.2 | 5.7       |
| 55  | 12.0 | 62.3        | 52.0      | 0.83 | 2.14           | 69.6         | 66.6 | 8.3       |
| 55  | 13.5 | 62.3        | 52.0      | 0.83 | 2.13           | 69.6         | 65.3 | 10.3      |
| 55  | 15.0 | 62.3        | 52.0      | 0.83 | 2.12           | 69.5         | 64.3 | 12.4      |
| 55  | 15.8 | 62.3        | 52.0      | 0.83 | 2.12           | 69.5         | 63.8 | 13.6      |
| 55  | 16.5 | 62.3        | 52.0      | 0.83 | 2.11           | 69.5         | 63.4 | 14.7      |
| 55  | 18.0 | 62.4        | 52.1      | 0.83 | 2.11           | 69.6         | 62.7 | 17.2      |
| 68  | 9.8  | 60.4        | 50.8      | 0.84 | 2.48           | 68.9         | 82.1 | 5.4       |
| 68  | 12.0 | 60.5        | 50.8      | 0.84 | 2.43           | 68.8         | 79.5 | 7.7       |
| 68  | 13.5 | 60.5        | 50.8      | 0.84 | 2.41           | 68.7         | 78.2 | 9.4       |
| 68  | 15.0 | 60.6        | 50.9      | 0.84 | 2.39           | 68.7         | 77.2 | 11.4      |
| 68  | 15.8 | 60.6        | 50.9      | 0.84 | 2.38           | 68.7         | 76.7 | 12.5      |
| 68  | 16.5 | 60.6        | 50.9      | 0.84 | 2.37           | 68.7         | 76.3 | 13.5      |
| 68  | 18.0 | 60.6        | 50.9      | 0.84 | 2.36           | 68.6         | 75.6 | 15.7      |
| 75  | 9.8  | 59.2        | 50.2      | 0.85 | 2.70           | 68.4         | 89.0 | 5.3       |
| 75  | 12.0 | 59.3        | 50.3      | 0.85 | 2.64           | 68.3         | 86.4 | 7.5       |
| 75  | 13.5 | 59.4        | 50.4      | 0.85 | 2.62           | 68.3         | 85.1 | 9.1       |
| 75  | 15.0 | 59.4        | 50.4      | 0.85 | 2.59           | 68.2         | 84.1 | 11.0      |
| 75  | 15.8 | 59.4        | 50.4      | 0.85 | 2.58           | 68.2         | 83.6 | 12.0      |
| 75  | 16.5 | 59.4        | 50.4      | 0.85 | 2.57           | 68.2         | 83.3 | 13.0      |
| 75  | 18.0 | 59.5        | 50.5      | 0.85 | 2.56           | 68.2         | 82.6 | 15.2      |
| 86  | 9.8  | 56.9        | 49.1      | 0.86 | 3.12           | 67.5         | 99.8 | 5.2       |
| 86  | 12.0 | 57.1        | 49.3      | 0.86 | 3.05           | 67.5         | 97.3 | 7.2       |
| 86  | 13.5 | 57.2        | 49.4      | 0.86 | 3.01           | 67.5         | 96.0 | 8.8       |

**Table 124. Cooling capacities 5 tons (gross) -EXVG060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 86  | 15.0 | 57.3        | 49.5      | 0.86 | 2.98        | 67.5         | 95.0  | 10.6      |
| 86  | 15.8 | 57.3        | 49.5      | 0.86 | 2.97        | 67.4         | 94.5  | 11.6      |
| 86  | 16.5 | 57.3        | 49.5      | 0.86 | 2.96        | 67.4         | 94.2  | 12.5      |
| 86  | 18.0 | 57.4        | 49.6      | 0.86 | 2.94        | 67.4         | 93.5  | 14.5      |
| 95  | 9.8  | 54.8        | 48.1      | 0.88 | 3.50        | 66.7         | 108.6 | 5.1       |
| 95  | 12.0 | 55.0        | 48.3      | 0.88 | 3.42        | 66.7         | 106.1 | 7.1       |
| 95  | 13.5 | 55.1        | 48.4      | 0.88 | 3.39        | 66.7         | 104.9 | 8.7       |
| 95  | 15.0 | 55.2        | 48.5      | 0.88 | 3.36        | 66.7         | 103.9 | 10.3      |
| 95  | 15.8 | 55.2        | 48.5      | 0.88 | 3.34        | 66.6         | 103.4 | 11.3      |
| 95  | 16.5 | 55.2        | 48.5      | 0.88 | 3.33        | 66.6         | 103.1 | 12.2      |
| 95  | 18.0 | 55.3        | 48.6      | 0.88 | 3.31        | 66.6         | 102.4 | 14.1      |
| 105 | 9.8  | 52.0        | 46.7      | 0.90 | 3.96        | 65.5         | 118.4 | 5.0       |
| 105 | 12.0 | 52.3        | 47.0      | 0.90 | 3.88        | 65.5         | 115.9 | 7.0       |
| 105 | 13.5 | 52.4        | 47.1      | 0.90 | 3.84        | 65.5         | 114.7 | 8.5       |
| 105 | 15.0 | 52.5        | 47.2      | 0.90 | 3.81        | 65.5         | 113.7 | 10.1      |
| 105 | 15.8 | 52.5        | 47.2      | 0.90 | 3.79        | 65.4         | 113.3 | 11.0      |
| 105 | 16.5 | 52.6        | 47.2      | 0.90 | 3.78        | 65.5         | 112.9 | 11.9      |
| 105 | 18.0 | 52.6        | 47.2      | 0.90 | 3.76        | 65.4         | 112.3 | 13.8      |
| 115 | 9.8  | 48.8        | 45.2      | 0.93 | 4.43        | 63.9         | 128.0 | 4.7       |
| 115 | 12.0 | 49.1        | 45.5      | 0.93 | 4.35        | 64.0         | 125.7 | 6.7       |
| 115 | 13.5 | 49.2        | 45.6      | 0.93 | 4.31        | 63.9         | 124.5 | 8.2       |
| 115 | 15.0 | 49.3        | 45.7      | 0.93 | 4.28        | 63.9         | 123.5 | 9.8       |
| 115 | 15.8 | 49.4        | 45.8      | 0.93 | 4.27        | 64.0         | 123.1 | 10.8      |
| 115 | 16.5 | 49.4        | 45.8      | 0.93 | 4.26        | 63.9         | 122.7 | 11.6      |
| 115 | 18.0 | 49.5        | 45.9      | 0.93 | 4.24        | 64.0         | 122.1 | 13.5      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 15; Minimum CFM 1520; Rated CFM 1900; Maximum CFM 2280.

**Table 125. Heating capacities 5 tons (gross) -EXVG060**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 9.8  | 36.0          | 27.0         | 2.65        | 19.5 | 8.4       |
| 25  | 12.0 | 36.6          | 27.5         | 2.66        | 20.4 | 11.9      |
| 25  | 13.5 | 36.9          | 27.8         | 2.66        | 20.9 | 14.6      |
| 25  | 15.0 | 37.2          | 28.1         | 2.67        | 21.3 | 17.4      |
| 25  | 15.8 | 37.3          | 28.2         | 2.67        | 21.4 | 19.0      |
| 25  | 16.5 | 37.4          | 28.3         | 2.67        | 21.6 | 20.5      |
| 25  | 18.0 | 37.6          | 28.5         | 2.67        | 21.8 | 23.7      |
| 32  | 9.8  | 40.2          | 30.9         | 2.71        | 25.7 | 7.4       |
| 32  | 12.0 | 41.0          | 31.7         | 2.72        | 26.7 | 10.7      |
| 32  | 13.5 | 41.4          | 32.1         | 2.73        | 27.2 | 13.2      |
| 32  | 15.0 | 41.7          | 32.4         | 2.73        | 27.7 | 15.9      |
| 32  | 15.8 | 41.9          | 32.6         | 2.74        | 27.9 | 17.4      |



## Performance Data

**Table 125. Heating capacities 5 tons (gross) -EXVG060 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 32  | 16.5 | 42.0          | 32.7         | 2.74        | 28.0 | 18.7      |
| 32  | 18.0 | 42.2          | 32.9         | 2.74        | 28.3 | 21.8      |
| 45  | 9.8  | 48.9          | 39.2         | 2.83        | 37.0 | 6.3       |
| 45  | 12.0 | 50.0          | 40.3         | 2.85        | 38.3 | 9.1       |
| 45  | 13.5 | 50.5          | 40.8         | 2.86        | 39.0 | 11.3      |
| 45  | 15.0 | 51.0          | 41.2         | 2.86        | 39.5 | 13.6      |
| 45  | 15.8 | 51.2          | 41.4         | 2.86        | 39.8 | 15.0      |
| 45  | 16.5 | 51.3          | 41.5         | 2.87        | 40.0 | 16.2      |
| 45  | 18.0 | 51.6          | 41.8         | 2.87        | 40.4 | 18.9      |
| 55  | 9.8  | 56.0          | 46.0         | 2.93        | 45.6 | 5.7       |
| 55  | 12.0 | 57.3          | 47.2         | 2.95        | 47.1 | 8.3       |
| 55  | 13.5 | 57.9          | 47.8         | 2.96        | 47.9 | 10.3      |
| 55  | 15.0 | 58.5          | 48.4         | 2.97        | 48.5 | 12.4      |
| 55  | 15.8 | 58.7          | 48.6         | 2.97        | 48.8 | 13.6      |
| 55  | 16.5 | 58.9          | 48.7         | 2.98        | 49.1 | 14.7      |
| 55  | 18.0 | 59.3          | 49.1         | 2.98        | 49.5 | 17.2      |
| 68  | 9.8  | 65.4          | 54.9         | 3.08        | 56.8 | 5.4       |
| 68  | 12.0 | 67.0          | 56.4         | 3.10        | 58.6 | 7.7       |
| 68  | 13.5 | 67.8          | 57.2         | 3.12        | 59.5 | 9.4       |
| 68  | 15.0 | 68.4          | 57.7         | 3.13        | 60.3 | 11.4      |
| 68  | 15.8 | 68.8          | 58.1         | 3.13        | 60.6 | 12.5      |
| 68  | 16.5 | 69.0          | 58.3         | 3.14        | 60.9 | 13.5      |
| 68  | 18.0 | 69.5          | 58.8         | 3.15        | 61.5 | 15.7      |
| 75  | 9.8  | 70.5          | 59.7         | 3.16        | 62.8 | 5.3       |
| 75  | 12.0 | 72.2          | 61.3         | 3.19        | 64.8 | 7.5       |
| 75  | 13.5 | 73.1          | 62.1         | 3.21        | 65.8 | 9.1       |
| 75  | 15.0 | 73.8          | 62.8         | 3.22        | 66.6 | 11.0      |
| 75  | 15.8 | 74.2          | 63.2         | 3.23        | 67.0 | 12.0      |
| 75  | 16.5 | 74.4          | 63.4         | 3.24        | 67.3 | 13.0      |
| 75  | 18.0 | 75.0          | 63.9         | 3.24        | 67.9 | 15.2      |
| 86  | 9.8  | 78.4          | 67.1         | 3.32        | 72.3 | 5.2       |
| 86  | 12.0 | 80.4          | 68.9         | 3.36        | 74.5 | 7.2       |
| 86  | 13.5 | 81.4          | 69.9         | 3.38        | 75.6 | 8.8       |
| 86  | 15.0 | 82.2          | 70.6         | 3.39        | 76.6 | 10.6      |
| 86  | 15.8 | 82.6          | 71.0         | 3.40        | 77.0 | 11.6      |
| 86  | 16.5 | 82.9          | 71.3         | 3.41        | 77.4 | 12.5      |
| 86  | 18.0 | 83.5          | 71.8         | 3.42        | 78.0 | 14.5      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 15; Minimum CFM 1520; Rated CFM 1900; Maximum CFM 2280.

**Table 126. Fan correction factors 5 tons - EXVG060**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1520         | 0.963            | 0.871             | 1.000               | 0.984            | 1.084               |
| 1615         | 0.974            | 0.903             | 1.000               | 0.989            | 1.059               |
| 1710         | 0.983            | 0.936             | 1.000               | 0.993            | 1.037               |
| 1805         | 0.992            | 0.969             | 1.000               | 0.997            | 1.017               |
| 1900         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2090         | 1.015            | 1.062             | 1.000               | 1.005            | 0.971               |
| 2185         | 1.021            | 1.093             | 1.000               | 1.007            | 0.958               |
| 2280         | 1.027            | 1.125             | 1.000               | 1.009            | 0.947               |

**Table 127. Correction factors for variation in entering air temperature 5 tons, EXVG060**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.900               | 0.999                     | 0.923                                     | 0.993 | 1.055 | *     | *     | 53.0                            | 1.034               | 0.853                  |
| 56.3                            | 0.900               | 0.999                     | 0.811                                     | 0.947 | 1.048 | *     | *     | 58.0                            | 1.024               | 0.898                  |
| 60.3                            | 0.915               | 0.999                     | 0.657                                     | 0.853 | 0.996 | 1.105 | *     | 63.0                            | 1.012               | 0.947                  |
| 63.2                            | 0.955               | 0.999                     | 0.502                                     | 0.749 | 0.929 | 1.065 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.608 | 0.831 | 1.000 | 1.133 | 73.0                            | 0.986               | 1.057                  |
| 72.1                            | 1.109               | 1.003                     | —   | —     | 0.550 | 0.795 | 0.988 | 78.0                            | 0.972               | 1.117                  |
| 77.1                            | 1.206               | 1.007                     | —   | —     | —     | —     | 0.791 | 83.0                            | 0.957               | 1.180                  |

Note: \* = Sensible equals total capacity

**Table 128. Cooling capacities 5 tons (gross) -DXHF060**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|------|-----------|
| 45  | 9.1  | 73.5        | 46.1      | 0.63 | 2.27     | 81.2         | 62.8 | 3.6       |
| 45  | 11.2 | 73.5        | 46.1      | 0.63 | 2.21     | 81.0         | 59.5 | 5.2       |
| 45  | 12.6 | 73.5        | 46.1      | 0.63 | 2.18     | 81.0         | 57.9 | 6.4       |
| 45  | 14.0 | 73.5        | 46.1      | 0.63 | 2.16     | 80.9         | 56.6 | 7.7       |
| 45  | 14.7 | 73.5        | 46.1      | 0.63 | 2.16     | 80.9         | 56.0 | 8.4       |
| 45  | 15.4 | 73.5        | 46.1      | 0.63 | 2.15     | 80.8         | 55.5 | 9.1       |
| 45  | 16.8 | 73.6        | 46.1      | 0.63 | 2.14     | 80.9         | 54.6 | 10.6      |
| 55  | 9.1  | 70.5        | 45.5      | 0.65 | 2.54     | 79.2         | 72.4 | 3.5       |
| 55  | 11.2 | 70.7        | 45.7      | 0.65 | 2.47     | 79.1         | 69.1 | 5.1       |
| 55  | 12.6 | 70.7        | 45.7      | 0.65 | 2.44     | 79.0         | 67.5 | 6.3       |
| 55  | 14.0 | 70.7        | 45.7      | 0.65 | 2.42     | 78.9         | 66.3 | 7.5       |
| 55  | 14.7 | 70.7        | 45.7      | 0.65 | 2.41     | 78.9         | 65.7 | 8.2       |
| 55  | 15.4 | 70.8        | 45.7      | 0.65 | 2.40     | 79.0         | 65.3 | 8.9       |
| 55  | 16.8 | 70.9        | 45.8      | 0.65 | 2.38     | 79.0         | 64.4 | 10.4      |
| 65  | 9.1  | 67.6        | 44.6      | 0.66 | 2.83     | 77.3         | 82.0 | 3.5       |
| 65  | 11.2 | 67.8        | 44.7      | 0.66 | 2.75     | 77.2         | 78.8 | 5.0       |
| 65  | 12.6 | 67.9        | 44.8      | 0.66 | 2.72     | 77.2         | 77.3 | 6.1       |
| 65  | 14.0 | 68.0        | 44.9      | 0.66 | 2.69     | 77.2         | 76.0 | 7.4       |
| 65  | 14.7 | 68.0        | 44.9      | 0.66 | 2.68     | 77.1         | 75.5 | 8.1       |
| 65  | 15.4 | 68.0        | 44.9      | 0.66 | 2.67     | 77.1         | 75.0 | 8.7       |



## Performance Data

Table 128. Cooling capacities 5 tons (gross) -DXHF060 (continued)

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 65  | 16.8 | 68.2        | 45.0      | 0.66 | 2.65     | 77.3         | 74.2  | 10.2      |
| 75  | 9.1  | 64.8        | 43.5      | 0.67 | 3.15     | 75.6         | 91.6  | 3.4       |
| 75  | 11.2 | 65.0        | 43.7      | 0.67 | 3.07     | 75.5         | 88.5  | 4.9       |
| 75  | 12.6 | 65.1        | 43.7      | 0.67 | 3.03     | 75.4         | 87.0  | 6.0       |
| 75  | 14.0 | 65.2        | 43.8      | 0.67 | 3.00     | 75.4         | 85.8  | 7.3       |
| 75  | 14.7 | 65.3        | 43.9      | 0.67 | 2.98     | 75.5         | 85.3  | 7.9       |
| 75  | 15.4 | 65.3        | 43.9      | 0.67 | 2.97     | 75.4         | 84.8  | 8.6       |
| 75  | 16.8 | 65.4        | 43.9      | 0.67 | 2.95     | 75.5         | 84.0  | 10.0      |
| 85  | 9.1  | 61.8        | 42.3      | 0.68 | 3.51     | 73.8         | 101.2 | 3.3       |
| 85  | 11.2 | 62.2        | 42.5      | 0.68 | 3.42     | 73.9         | 98.2  | 4.8       |
| 85  | 12.6 | 62.3        | 42.6      | 0.68 | 3.37     | 73.8         | 96.7  | 5.9       |
| 85  | 14.0 | 62.4        | 42.7      | 0.68 | 3.34     | 73.8         | 95.5  | 7.1       |
| 85  | 14.7 | 62.4        | 42.7      | 0.68 | 3.33     | 73.7         | 95.0  | 7.8       |
| 85  | 15.4 | 62.5        | 42.8      | 0.68 | 3.31     | 73.8         | 94.6  | 8.4       |
| 85  | 16.8 | 62.6        | 42.8      | 0.68 | 3.29     | 73.8         | 93.8  | 9.8       |
| 95  | 9.1  | 58.8        | 41.0      | 0.70 | 3.91     | 72.1         | 110.8 | 3.3       |
| 95  | 11.2 | 59.2        | 41.3      | 0.70 | 3.81     | 72.2         | 107.9 | 4.7       |
| 95  | 12.6 | 59.3        | 41.4      | 0.70 | 3.77     | 72.2         | 106.5 | 5.8       |
| 95  | 14.0 | 59.4        | 41.5      | 0.70 | 3.73     | 72.1         | 105.3 | 7.0       |
| 95  | 14.7 | 59.5        | 41.5      | 0.70 | 3.71     | 72.2         | 104.8 | 7.6       |
| 95  | 15.4 | 59.5        | 41.5      | 0.70 | 3.70     | 72.1         | 104.4 | 8.3       |
| 95  | 16.8 | 59.7        | 41.7      | 0.70 | 3.68     | 72.2         | 103.6 | 9.6       |
| 105 | 9.1  | 55.7        | 39.9      | 0.72 | 4.36     | 70.6         | 120.5 | 3.2       |
| 105 | 11.2 | 56.0        | 40.2      | 0.72 | 4.26     | 70.5         | 117.6 | 4.6       |
| 105 | 12.6 | 56.2        | 40.3      | 0.72 | 4.21     | 70.6         | 116.2 | 5.7       |
| 105 | 14.0 | 56.3        | 40.4      | 0.72 | 4.18     | 70.5         | 115.1 | 6.8       |
| 105 | 14.7 | 56.4        | 40.4      | 0.72 | 4.16     | 70.6         | 114.6 | 7.5       |
| 105 | 15.4 | 56.4        | 40.4      | 0.72 | 4.14     | 70.5         | 114.2 | 8.1       |
| 105 | 16.8 | 56.5        | 40.5      | 0.72 | 4.12     | 70.6         | 113.4 | 9.4       |
| 115 | 9.1  | 52.3        | 38.8      | 0.74 | 4.87     | 68.9         | 130.1 | 3.2       |
| 115 | 11.2 | 52.7        | 39.1      | 0.74 | 4.77     | 69.0         | 127.3 | 4.5       |
| 115 | 12.6 | 52.9        | 39.2      | 0.74 | 4.72     | 69.0         | 126.0 | 5.6       |
| 115 | 14.0 | 53.0        | 39.3      | 0.74 | 4.68     | 69.0         | 124.9 | 6.7       |
| 115 | 14.7 | 53.0        | 39.3      | 0.74 | 4.67     | 68.9         | 124.4 | 7.3       |
| 115 | 15.4 | 53.0        | 39.3      | 0.74 | 4.65     | 68.9         | 123.9 | 7.9       |
| 115 | 16.8 | 53.1        | 39.3      | 0.74 | 4.62     | 68.9         | 123.2 | 9.3       |
| 120 | 9.1  | 50.5        | 38.2      | 0.76 | 5.15     | 68.1         | 135.0 | 3.1       |
| 120 | 11.2 | 50.9        | 38.5      | 0.76 | 5.05     | 68.1         | 132.2 | 4.5       |
| 120 | 12.6 | 51.1        | 38.6      | 0.76 | 5.00     | 68.2         | 130.8 | 5.5       |
| 120 | 14.0 | 51.2        | 38.7      | 0.76 | 4.96     | 68.1         | 129.7 | 6.7       |
| 120 | 14.7 | 51.2        | 38.7      | 0.76 | 4.95     | 68.1         | 129.3 | 7.2       |
| 120 | 15.4 | 51.3        | 38.8      | 0.76 | 4.93     | 68.1         | 128.8 | 7.9       |



**Table 128. Cooling capacities 5 tons (gross) -DXHF060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 120 | 16.8 | 51.3        | 38.8      | 0.76 | 4.90     | 68.0         | 128.1 | 9.2       |

**Note:** Cooling performance data is tabulated at 80°F DB/67°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 14.0, Rated CFM 1700, Minimum CFM 1360, Maximum CFM 1870.

**Table 129. Heating capacities 5 tons (gross) -DXHF060**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 25  | 14.0 | 44.1          | 32.1         | 3.52     | 20.4 | 8.0       |
| 25  | 14.7 | 44.9          | 32.9         | 3.51     | 20.5 | 8.7       |
| 25  | 15.4 | 45.5          | 33.6         | 3.49     | 20.6 | 9.4       |
| 25  | 16.8 | 46.1          | 34.3         | 3.46     | 20.9 | 11.0      |
| 35  | 9.1  | 52.2          | 39.8         | 3.62     | 26.3 | 3.7       |
| 35  | 11.2 | 52.3          | 39.9         | 3.64     | 27.9 | 5.3       |
| 35  | 12.6 | 53.1          | 40.6         | 3.66     | 28.6 | 6.5       |
| 35  | 14.0 | 53.9          | 41.4         | 3.66     | 29.1 | 7.8       |
| 35  | 14.7 | 54.2          | 41.7         | 3.65     | 29.3 | 8.5       |
| 35  | 15.4 | 54.4          | 42.0         | 3.65     | 29.5 | 9.3       |
| 35  | 16.8 | 54.1          | 41.7         | 3.62     | 30.0 | 10.8      |
| 45  | 9.1  | 60.9          | 48.0         | 3.79     | 34.5 | 3.6       |
| 45  | 11.2 | 60.9          | 47.8         | 3.83     | 36.5 | 5.2       |
| 45  | 12.6 | 61.6          | 48.4         | 3.86     | 37.3 | 6.4       |
| 45  | 14.0 | 62.3          | 49.1         | 3.87     | 38.0 | 7.7       |
| 45  | 14.7 | 62.5          | 49.3         | 3.87     | 38.3 | 8.4       |
| 45  | 15.4 | 62.6          | 49.4         | 3.87     | 38.6 | 9.1       |
| 45  | 16.8 | 62.0          | 48.8         | 3.86     | 39.2 | 10.6      |
| 55  | 9.1  | 68.7          | 55.0         | 4.03     | 42.9 | 3.5       |
| 55  | 11.2 | 69.1          | 55.2         | 4.08     | 45.1 | 5.1       |
| 55  | 12.6 | 69.9          | 55.8         | 4.12     | 46.1 | 6.3       |
| 55  | 14.0 | 70.8          | 56.6         | 4.15     | 46.9 | 7.5       |
| 55  | 14.7 | 71.1          | 56.9         | 4.16     | 47.3 | 8.2       |
| 55  | 15.4 | 71.2          | 57.0         | 4.16     | 47.6 | 8.9       |
| 55  | 16.8 | 70.7          | 56.5         | 4.16     | 48.3 | 10.4      |
| 65  | 9.1  | 76.3          | 61.6         | 4.31     | 51.5 | 3.5       |
| 65  | 11.2 | 77.2          | 62.2         | 4.39     | 53.9 | 5.0       |
| 65  | 12.6 | 78.4          | 63.2         | 4.44     | 55.0 | 6.1       |
| 65  | 14.0 | 79.6          | 64.3         | 4.48     | 55.8 | 7.4       |
| 65  | 14.7 | 80.0          | 64.6         | 4.50     | 56.2 | 8.1       |
| 65  | 15.4 | 80.3          | 64.9         | 4.51     | 56.6 | 8.7       |
| 65  | 16.8 | 80.0          | 64.6         | 4.52     | 57.3 | 10.2      |
| 75  | 9.1  | 84.0          | 68.1         | 4.65     | 60.0 | 3.4       |
| 75  | 11.2 | 85.6          | 69.4         | 4.74     | 62.6 | 4.9       |
| 75  | 12.6 | 87.2          | 70.8         | 4.81     | 63.8 | 6.0       |
| 75  | 14.0 | 88.8          | 72.2         | 4.86     | 64.7 | 7.3       |
| 75  | 14.7 | 89.4          | 72.7         | 4.89     | 65.1 | 7.9       |



## Performance Data

**Table 129. Heating capacities 5 tons (gross) -DXHF060 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 75  | 15.4 | 89.8          | 73.1         | 4.90     | 65.5 | 8.6       |
| 75  | 16.8 | 89.9          | 73.1         | 4.93     | 66.3 | 10.0      |
| 85  | 9.1  | 91.7          | 74.6         | 5.02     | 68.6 | 3.3       |
| 85  | 11.2 | 94.1          | 76.6         | 5.13     | 71.3 | 4.8       |
| 85  | 12.6 | 96.2          | 78.4         | 5.21     | 72.6 | 5.9       |
| 85  | 14.0 | 98.2          | 80.2         | 5.28     | 73.5 | 7.1       |
| 85  | 14.7 | 99.1          | 81.0         | 5.31     | 74.0 | 7.8       |
| 85  | 15.4 | 99.7          | 81.5         | 5.33     | 74.4 | 8.4       |
| 85  | 16.8 | 100.2         | 81.9         | 5.37     | 75.3 | 9.8       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 14.0, Rated CFM 1700, Minimum CFM 1360, Maximum CFM 1870.

**Table 130. Fan correction factors 5 tons - DXHF060**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1360         | 0.957            | 0.892             | 0.995              | 0.985            | 1.121              |
| 1530         | 0.980            | 0.946             | 0.998              | 0.994            | 1.053              |
| 1700         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 1870         | 1.018            | 1.054             | 1.002              | 1.008            | 0.963              |

**Table 131. Correction factors for variation in entering air temperature 5 tons, DXHF060**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  | 90.0  |                                 |                     |                        |
| 50.0                            | 0.910               | 0.987                     | 1.073                                     | 1.193 | *     | *     | *     | *     | 55.0                            | 1.033               | 0.871                  |
| 55.0                            | 0.898               | 0.985                     | 0.906                                     | 1.092 | 1.237 | *     | *     | *     | 58.0                            | 1.030               | 0.901                  |
| 60.0                            | 0.922               | 0.988                     | 0.659                                     | 0.896 | 1.098 | 1.267 | *     | *     | 61.0                            | 1.025               | 0.927                  |
| 65.0                            | 0.973               | 0.996                     | 0.356                                     | 0.631 | 0.875 | 1.093 | 1.284 | *     | 64.0                            | 1.018               | 0.951                  |
| 67.0                            | 1.000               | 1.000                     | —   | 0.510 | 0.768 | 1.000 | 1.209 | *     | 67.0                            | 1.010               | 0.975                  |
| 70.0                            | 1.046               | 1.007                     | —   | 0.318 | 0.591 | 0.843 | 1.073 | 1.285 | 70.0                            | 1.000               | 1.000                  |
| 75.0                            | 1.133               | 1.020                     | —   | —     | 0.270 | 0.541 | 0.797 | 1.039 | 73.0                            | 0.988               | 1.024                  |
| 78.0                            | 1.189               | 1.029                     | —   | —     | —     | 0.345 | 0.609 | 0.863 | 76.0                            | 0.975               | 1.047                  |

**Note:** \* = Sensible equals total capacity

**Table 132. Cooling capacities 5 tons (gross) -DXVG060**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|------|-----------|
| 45  | 9.8  | 58.8        | 50.7      | 0.86 | 1.84        | 65.1         | 58.3 | 6.6       |
| 45  | 12.0 | 58.9        | 50.8      | 0.86 | 1.77        | 64.9         | 55.8 | 9.5       |
| 45  | 13.5 | 58.9        | 50.8      | 0.86 | 1.74        | 64.8         | 54.6 | 11.8      |
| 45  | 15.0 | 59.0        | 50.9      | 0.86 | 1.71        | 64.8         | 53.6 | 14.2      |
| 45  | 15.8 | 59.0        | 50.9      | 0.86 | 1.70        | 64.8         | 53.2 | 15.6      |
| 45  | 16.5 | 59.0        | 50.9      | 0.86 | 1.69        | 64.8         | 52.9 | 16.9      |
| 45  | 18.0 | 59.0        | 50.9      | 0.86 | 1.68        | 64.7         | 52.2 | 19.7      |
| 55  | 9.8  | 57.7        | 50.0      | 0.87 | 2.09        | 64.8         | 68.2 | 6.0       |
| 55  | 12.0 | 57.8        | 50.1      | 0.87 | 2.02        | 64.7         | 65.8 | 8.7       |

**Table 132. Cooling capacities 5 tons (gross) -DXVG060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 55  | 13.5 | 57.8        | 50.1      | 0.87 | 1.99        | 64.6         | 64.6  | 10.8      |
| 55  | 15.0 | 57.8        | 50.1      | 0.87 | 1.97        | 64.5         | 63.6  | 13.1      |
| 55  | 15.8 | 57.8        | 50.1      | 0.87 | 1.96        | 64.5         | 63.2  | 14.3      |
| 55  | 16.5 | 57.9        | 50.2      | 0.87 | 1.95        | 64.5         | 62.8  | 15.5      |
| 55  | 18.0 | 57.9        | 50.2      | 0.87 | 1.93        | 64.5         | 62.2  | 18.1      |
| 68  | 9.8  | 56.2        | 49.1      | 0.87 | 2.43        | 64.5         | 81.2  | 5.7       |
| 68  | 12.0 | 56.3        | 49.2      | 0.87 | 2.36        | 64.4         | 78.7  | 8.1       |
| 68  | 13.5 | 56.3        | 49.2      | 0.87 | 2.33        | 64.3         | 77.5  | 10.0      |
| 68  | 15.0 | 56.3        | 49.2      | 0.87 | 2.31        | 64.2         | 76.6  | 12.0      |
| 68  | 15.8 | 56.4        | 49.3      | 0.87 | 2.30        | 64.2         | 76.1  | 13.2      |
| 68  | 16.5 | 56.4        | 49.3      | 0.87 | 2.29        | 64.2         | 75.8  | 14.3      |
| 68  | 18.0 | 56.4        | 49.3      | 0.87 | 2.27        | 64.1         | 75.1  | 16.6      |
| 75  | 9.8  | 55.2        | 48.7      | 0.88 | 2.62        | 64.1         | 88.1  | 5.6       |
| 75  | 12.0 | 55.3        | 48.7      | 0.88 | 2.55        | 64.0         | 85.7  | 7.9       |
| 75  | 13.5 | 55.3        | 48.7      | 0.88 | 2.52        | 63.9         | 84.5  | 9.7       |
| 75  | 15.0 | 55.4        | 48.8      | 0.88 | 2.50        | 63.9         | 83.5  | 11.6      |
| 75  | 15.8 | 55.4        | 48.8      | 0.88 | 2.48        | 63.9         | 83.1  | 12.8      |
| 75  | 16.5 | 55.4        | 48.8      | 0.88 | 2.48        | 63.8         | 82.7  | 13.8      |
| 75  | 18.0 | 55.4        | 48.8      | 0.88 | 2.46        | 63.8         | 82.1  | 16.1      |
| 86  | 9.8  | 53.2        | 47.8      | 0.90 | 2.96        | 63.3         | 98.9  | 5.5       |
| 86  | 12.0 | 53.3        | 47.9      | 0.90 | 2.89        | 63.2         | 96.5  | 7.7       |
| 86  | 13.5 | 53.3        | 47.9      | 0.90 | 2.86        | 63.1         | 95.3  | 9.4       |
| 86  | 15.0 | 53.3        | 47.9      | 0.90 | 2.83        | 63.0         | 94.4  | 11.2      |
| 86  | 15.8 | 53.4        | 48.0      | 0.90 | 2.82        | 63.0         | 94.0  | 12.3      |
| 86  | 16.5 | 53.4        | 48.0      | 0.90 | 2.81        | 63.0         | 93.6  | 13.2      |
| 86  | 18.0 | 53.4        | 48.0      | 0.90 | 2.80        | 62.9         | 93.0  | 15.4      |
| 95  | 9.8  | 51.1        | 46.9      | 0.92 | 3.29        | 62.3         | 107.7 | 5.4       |
| 95  | 12.0 | 51.2        | 47.0      | 0.92 | 3.22        | 62.2         | 105.4 | 7.5       |
| 95  | 13.5 | 51.2        | 47.0      | 0.92 | 3.19        | 62.1         | 104.2 | 9.2       |
| 95  | 15.0 | 51.3        | 47.0      | 0.92 | 3.16        | 62.1         | 103.3 | 11.0      |
| 95  | 15.8 | 51.3        | 47.0      | 0.92 | 3.15        | 62.1         | 102.9 | 12.0      |
| 95  | 16.5 | 51.3        | 47.0      | 0.92 | 3.14        | 62.0         | 102.5 | 12.9      |
| 95  | 18.0 | 51.3        | 47.0      | 0.92 | 3.13        | 62.0         | 101.9 | 15.0      |
| 105 | 9.8  | 48.4        | 45.6      | 0.94 | 3.71        | 61.1         | 117.5 | 5.3       |
| 105 | 12.0 | 48.5        | 45.7      | 0.94 | 3.64        | 60.9         | 115.2 | 7.3       |
| 105 | 13.5 | 48.5        | 45.7      | 0.94 | 3.61        | 60.8         | 114.0 | 9.0       |
| 105 | 15.0 | 48.6        | 45.8      | 0.94 | 3.59        | 60.8         | 113.1 | 10.7      |
| 105 | 15.8 | 48.6        | 45.8      | 0.94 | 3.58        | 60.8         | 112.7 | 11.7      |
| 105 | 16.5 | 48.6        | 45.8      | 0.94 | 3.57        | 60.8         | 112.4 | 12.6      |
| 105 | 18.0 | 48.6        | 45.8      | 0.94 | 3.55        | 60.7         | 111.7 | 14.6      |
| 115 | 9.8  | 45.6        | 44.3      | 0.97 | 4.18        | 59.9         | 127.2 | 5.0       |



## Performance Data

**Table 132. Cooling capacities 5 tons (gross) -DXVG060 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 115 | 12.0 | 45.7        | 44.4      | 0.97 | 4.12        | 59.7         | 125.0 | 7.1       |
| 115 | 13.5 | 45.8        | 44.5      | 0.97 | 4.09        | 59.7         | 123.8 | 8.7       |
| 115 | 15.0 | 45.8        | 44.5      | 0.97 | 4.06        | 59.7         | 123.0 | 10.4      |
| 115 | 15.8 | 45.8        | 44.5      | 0.97 | 4.05        | 59.6         | 122.5 | 11.4      |
| 115 | 16.5 | 45.9        | 44.6      | 0.97 | 4.04        | 59.7         | 122.2 | 12.3      |
| 115 | 18.0 | 45.9        | 44.6      | 0.97 | 4.02        | 59.6         | 121.6 | 14.3      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 15; Minimum CFM 1520; Rated CFM 1900; Maximum CFM 2280.

**Table 133. Heating capacities 5 tons (gross) -DXVG060**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 9.8  | 34.8          | 26.1         | 2.55        | 19.7 | 8.5       |
| 25  | 12.0 | 35.5          | 26.7         | 2.57        | 20.6 | 12.1      |
| 25  | 13.5 | 35.9          | 27.1         | 2.58        | 21.0 | 14.9      |
| 25  | 15.0 | 36.2          | 27.4         | 2.59        | 21.3 | 17.8      |
| 25  | 15.8 | 36.3          | 27.5         | 2.59        | 21.5 | 19.5      |
| 25  | 16.5 | 36.4          | 27.5         | 2.60        | 21.7 | 20.9      |
| 25  | 18.0 | 36.6          | 27.7         | 2.61        | 21.9 | 24.3      |
| 32  | 9.8  | 39.3          | 30.3         | 2.64        | 25.8 | 7.7       |
| 32  | 12.0 | 40.1          | 31.0         | 2.66        | 26.8 | 11.0      |
| 32  | 13.5 | 40.6          | 31.5         | 2.67        | 27.3 | 13.6      |
| 32  | 15.0 | 40.9          | 31.8         | 2.68        | 27.8 | 16.3      |
| 32  | 15.8 | 41.1          | 32.0         | 2.68        | 27.9 | 17.9      |
| 32  | 16.5 | 41.3          | 32.1         | 2.68        | 28.1 | 19.3      |
| 32  | 18.0 | 41.5          | 32.3         | 2.69        | 28.4 | 22.4      |
| 45  | 9.8  | 47.8          | 38.4         | 2.76        | 37.2 | 6.6       |
| 45  | 12.0 | 48.9          | 39.4         | 2.78        | 38.4 | 9.5       |
| 45  | 13.5 | 49.5          | 40.0         | 2.79        | 39.1 | 11.8      |
| 45  | 15.0 | 50.0          | 40.4         | 2.80        | 39.6 | 14.2      |
| 45  | 15.8 | 50.2          | 40.6         | 2.80        | 39.9 | 15.6      |
| 45  | 16.5 | 50.4          | 40.8         | 2.81        | 40.1 | 16.9      |
| 45  | 18.0 | 50.7          | 41.1         | 2.82        | 40.4 | 19.7      |
| 55  | 9.8  | 54.6          | 44.9         | 2.86        | 45.8 | 6.0       |
| 55  | 12.0 | 55.9          | 46.1         | 2.88        | 47.3 | 8.7       |
| 55  | 13.5 | 56.6          | 46.8         | 2.89        | 48.1 | 10.8      |
| 55  | 15.0 | 57.1          | 47.2         | 2.90        | 48.7 | 13.1      |
| 55  | 15.8 | 57.4          | 47.5         | 2.90        | 49.0 | 14.3      |
| 55  | 16.5 | 57.6          | 47.7         | 2.90        | 49.2 | 15.5      |
| 55  | 18.0 | 58.0          | 48.1         | 2.91        | 49.7 | 18.1      |
| 68  | 9.8  | 63.7          | 53.4         | 3.01        | 57.1 | 5.7       |
| 68  | 12.0 | 65.3          | 55.0         | 3.03        | 58.8 | 8.1       |
| 68  | 13.5 | 66.1          | 55.7         | 3.04        | 59.7 | 10.0      |

**Table 133. Heating capacities 5 tons (gross) -DXVG060 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 68  | 15.0 | 66.8          | 56.4         | 3.05        | 60.5 | 12.0      |
| 68  | 15.8 | 67.1          | 56.7         | 3.05        | 60.8 | 13.2      |
| 68  | 16.5 | 67.4          | 57.0         | 3.05        | 61.1 | 14.3      |
| 68  | 18.0 | 67.8          | 57.4         | 3.06        | 61.6 | 16.6      |
| 75  | 9.8  | 68.9          | 58.3         | 3.09        | 63.1 | 5.6       |
| 75  | 12.0 | 70.6          | 60.0         | 3.11        | 65.0 | 7.9       |
| 75  | 13.5 | 71.5          | 60.8         | 3.12        | 66.0 | 9.7       |
| 75  | 15.0 | 72.2          | 61.5         | 3.13        | 66.8 | 11.6      |
| 75  | 15.8 | 72.6          | 61.9         | 3.14        | 67.2 | 12.8      |
| 75  | 16.5 | 72.8          | 62.1         | 3.14        | 67.5 | 13.8      |
| 75  | 18.0 | 73.4          | 62.7         | 3.15        | 68.0 | 16.1      |
| 86  | 9.8  | 77.4          | 66.4         | 3.21        | 72.4 | 5.5       |
| 86  | 12.0 | 79.3          | 68.3         | 3.23        | 74.6 | 7.7       |
| 86  | 13.5 | 80.3          | 69.2         | 3.24        | 75.7 | 9.4       |
| 86  | 15.0 | 81.1          | 70.0         | 3.25        | 76.7 | 11.2      |
| 86  | 15.8 | 81.5          | 70.4         | 3.26        | 77.1 | 12.3      |
| 86  | 16.5 | 81.8          | 70.7         | 3.26        | 77.4 | 13.2      |
| 86  | 18.0 | 82.3          | 71.1         | 3.27        | 78.1 | 15.4      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 15; Minimum CFM 1520; Rated CFM 1900; Maximum CFM 2280.

**Table 134. Fan correction factors 5 tons - DXVG060**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1520         | 0.965            | 0.869             | 0.994               | 0.994            | 1.090               |
| 1615         | 0.976            | 0.901             | 0.996               | 0.996            | 1.063               |
| 1710         | 0.985            | 0.934             | 0.998               | 0.997            | 1.039               |
| 1805         | 0.993            | 0.967             | 0.999               | 0.999            | 1.019               |
| 1900         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2090         | 1.013            | 1.065             | 1.002               | 1.002            | 0.969               |
| 2185         | 1.020            | 1.098             | 1.004               | 1.003            | 0.955               |
| 2280         | 1.026            | 1.131             | 1.005               | 1.004            | 0.943               |

**Table 135. Correction factors for variation in entering air temperature 5 tons, DXVG060**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  |                                 |                     |                        |
| 49.4                            | 0.900               | 0.999                     | 0.923                                     | 0.993 | 1.055 | *     | *     | 53.0                            | 1.034               | 0.853                  |
| 56.3                            | 0.900               | 0.999                     | 0.811                                     | 0.947 | 1.048 | *     | *     | 58.0                            | 1.024               | 0.898                  |
| 60.3                            | 0.915               | 0.999                     | 0.657                                     | 0.853 | 0.996 | 1.105 | *     | 63.0                            | 1.012               | 0.947                  |
| 63.2                            | 0.955               | 0.999                     | 0.502                                     | 0.749 | 0.929 | 1.065 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.608 | 0.831 | 1.000 | 1.133 | 73.0                            | 0.986               | 1.057                  |
| 72.1                            | 1.109               | 1.003                     | —   | —     | 0.550 | 0.795 | 0.988 | 78.0                            | 0.972               | 1.117                  |
| 77.1                            | 1.206               | 1.007                     | —   | —     | —     | —     | 0.791 | 83.0                            | 0.957               | 1.180                  |

**Note:** \* = Sensible equals total capacity



## Performance Data

# Cooling and Heating Capacities 6 tons

Table 136. Cooling capacities 6 tons (gross) - EXHF070

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 45  | 10.0 | 76.30       | 56.97     | 0.75 | 2.303    | 33.1 | 84.16        | 62.1  | 3.4       |
| 45  | 12.3 | 76.52       | 57.12     | 0.75 | 2.207    | 34.7 | 84.05        | 58.7  | 4.9       |
| 45  | 13.9 | 76.52       | 57.02     | 0.75 | 2.157    | 35.5 | 83.88        | 57.1  | 6.0       |
| 45  | 15.4 | 76.62       | 57.12     | 0.75 | 2.127    | 36.0 | 83.88        | 55.9  | 7.2       |
| 45  | 16.2 | 76.72       | 57.22     | 0.75 | 2.107    | 36.4 | 83.91        | 55.4  | 7.9       |
| 45  | 16.9 | 76.72       | 57.22     | 0.75 | 2.097    | 36.6 | 83.88        | 54.9  | 8.6       |
| 45  | 18.5 | 76.62       | 57.02     | 0.74 | 2.077    | 36.9 | 83.71        | 54.0  | 10.0      |
| 55  | 10.0 | 74.50       | 56.25     | 0.76 | 2.651    | 28.1 | 83.54        | 72.0  | 3.3       |
| 55  | 12.3 | 74.72       | 56.32     | 0.75 | 2.547    | 29.3 | 83.41        | 68.6  | 4.7       |
| 55  | 13.9 | 74.92       | 56.42     | 0.75 | 2.497    | 30.0 | 83.44        | 67.0  | 5.8       |
| 55  | 15.4 | 74.92       | 56.32     | 0.75 | 2.467    | 30.4 | 83.34        | 65.8  | 7.0       |
| 55  | 16.2 | 75.02       | 56.52     | 0.75 | 2.447    | 30.7 | 83.37        | 65.3  | 7.6       |
| 55  | 16.9 | 75.02       | 56.42     | 0.75 | 2.437    | 30.8 | 83.34        | 64.9  | 8.2       |
| 55  | 18.5 | 75.02       | 56.52     | 0.75 | 2.417    | 31.0 | 83.27        | 64.0  | 9.6       |
| 68  | 10.0 | 72.52       | 55.70     | 0.77 | 3.151    | 23.0 | 83.28        | 84.9  | 3.2       |
| 68  | 12.3 | 72.82       | 55.92     | 0.77 | 3.047    | 23.9 | 83.22        | 81.5  | 4.5       |
| 68  | 13.9 | 73.02       | 56.02     | 0.77 | 2.997    | 24.4 | 83.25        | 80.0  | 5.5       |
| 68  | 15.4 | 73.12       | 55.92     | 0.76 | 2.957    | 24.7 | 83.21        | 78.8  | 6.6       |
| 68  | 16.2 | 73.12       | 55.92     | 0.76 | 2.947    | 24.8 | 83.18        | 78.3  | 7.2       |
| 68  | 16.9 | 73.22       | 56.02     | 0.77 | 2.927    | 25.0 | 83.21        | 77.8  | 7.9       |
| 68  | 18.5 | 73.22       | 56.02     | 0.77 | 2.907    | 25.2 | 83.14        | 77.0  | 9.2       |
| 75  | 10.0 | 72.02       | 55.50     | 0.77 | 3.231    | 22.3 | 83.05        | 91.9  | 3.0       |
| 75  | 12.3 | 72.32       | 55.72     | 0.77 | 3.127    | 23.1 | 82.99        | 88.5  | 4.3       |
| 75  | 13.9 | 72.52       | 55.72     | 0.77 | 3.077    | 23.6 | 83.02        | 86.9  | 5.4       |
| 75  | 15.4 | 72.62       | 55.72     | 0.77 | 3.037    | 23.9 | 82.99        | 85.8  | 6.4       |
| 75  | 16.2 | 72.62       | 55.72     | 0.77 | 3.027    | 24.0 | 82.95        | 85.2  | 7.0       |
| 75  | 16.9 | 72.72       | 55.82     | 0.77 | 3.007    | 24.2 | 82.98        | 84.8  | 7.6       |
| 75  | 18.5 | 72.72       | 55.82     | 0.77 | 2.987    | 24.3 | 82.91        | 84.0  | 8.9       |
| 77  | 10.0 | 70.15       | 54.60     | 0.78 | 3.518    | 19.9 | 82.16        | 93.7  | 2.9       |
| 77  | 12.3 | 70.52       | 54.82     | 0.78 | 3.407    | 20.7 | 82.15        | 90.4  | 4.2       |
| 77  | 13.9 | 70.62       | 54.82     | 0.78 | 3.357    | 21.0 | 82.08        | 88.8  | 5.2       |
| 77  | 15.4 | 70.72       | 54.92     | 0.78 | 3.317    | 21.3 | 82.04        | 87.7  | 6.3       |
| 77  | 16.2 | 70.82       | 55.02     | 0.78 | 3.297    | 21.5 | 82.07        | 87.1  | 6.8       |
| 77  | 16.9 | 70.82       | 54.92     | 0.78 | 3.287    | 21.5 | 82.04        | 86.7  | 7.4       |
| 77  | 18.5 | 70.92       | 55.02     | 0.78 | 3.257    | 21.8 | 82.04        | 85.9  | 8.7       |
| 86  | 10.0 | 67.55       | 53.77     | 0.80 | 3.873    | 17.4 | 80.77        | 102.4 | 2.9       |
| 86  | 12.3 | 67.92       | 53.62     | 0.79 | 3.747    | 18.1 | 80.71        | 99.1  | 4.2       |
| 86  | 13.9 | 68.12       | 53.82     | 0.79 | 3.697    | 18.4 | 80.74        | 97.6  | 5.2       |
| 86  | 15.4 | 68.22       | 53.72     | 0.79 | 3.657    | 18.7 | 80.70        | 96.5  | 6.3       |
| 86  | 16.2 | 68.32       | 53.82     | 0.79 | 3.637    | 18.8 | 80.73        | 96.0  | 6.8       |
| 86  | 16.9 | 68.42       | 53.82     | 0.79 | 3.627    | 18.9 | 80.80        | 95.6  | 7.4       |
| 86  | 18.5 | 68.42       | 53.82     | 0.79 | 3.597    | 19.0 | 80.70        | 94.7  | 8.7       |

**Table 136. Cooling capacities 6 tons (gross) - EXHF070 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | EER  | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|------|--------------|-------|-----------|
| 95  | 10.0 | 64.37       | 52.42     | 0.81 | 4.333    | 14.9 | 79.17        | 111.1 | 2.9       |
| 95  | 12.3 | 64.82       | 52.42     | 0.81 | 4.207    | 15.4 | 79.18        | 107.9 | 4.1       |
| 95  | 13.9 | 65.12       | 52.72     | 0.81 | 4.147    | 15.7 | 79.27        | 106.4 | 5.1       |
| 95  | 15.4 | 65.22       | 52.82     | 0.81 | 4.107    | 15.9 | 79.24        | 105.3 | 6.1       |
| 95  | 16.2 | 65.32       | 52.92     | 0.81 | 4.087    | 16.0 | 79.27        | 104.8 | 6.7       |
| 95  | 16.9 | 65.32       | 52.72     | 0.81 | 4.067    | 16.1 | 79.20        | 104.4 | 7.2       |
| 95  | 18.5 | 65.42       | 52.82     | 0.81 | 4.047    | 16.2 | 79.23        | 103.6 | 8.4       |
| 105 | 10.0 | 60.67       | 50.87     | 0.84 | 4.921    | 12.3 | 77.47        | 120.7 | 2.8       |
| 105 | 12.3 | 61.12       | 51.02     | 0.83 | 4.787    | 12.8 | 77.46        | 117.6 | 4.0       |
| 105 | 13.9 | 61.32       | 51.12     | 0.83 | 4.717    | 13.0 | 77.42        | 116.1 | 4.9       |
| 105 | 15.4 | 61.52       | 51.22     | 0.83 | 4.677    | 13.2 | 77.48        | 115.1 | 5.9       |
| 105 | 16.2 | 61.52       | 51.22     | 0.83 | 4.657    | 13.2 | 77.41        | 114.6 | 6.5       |
| 105 | 16.9 | 61.52       | 51.22     | 0.83 | 4.627    | 13.3 | 77.31        | 114.1 | 7.0       |
| 105 | 18.5 | 61.72       | 51.22     | 0.83 | 4.607    | 13.4 | 77.44        | 113.4 | 8.2       |
| 115 | 10.0 | 56.67       | 48.95     | 0.86 | 5.595    | 10.1 | 75.77        | 130.4 | 2.7       |
| 115 | 12.3 | 57.12       | 49.02     | 0.86 | 5.447    | 10.5 | 75.71        | 127.3 | 3.9       |
| 115 | 13.9 | 57.22       | 49.12     | 0.86 | 5.377    | 10.6 | 75.57        | 125.9 | 4.8       |
| 115 | 15.4 | 57.42       | 49.12     | 0.86 | 5.327    | 10.8 | 75.60        | 124.8 | 5.8       |
| 115 | 16.2 | 57.52       | 49.32     | 0.86 | 5.307    | 10.8 | 75.63        | 124.3 | 6.3       |
| 115 | 16.9 | 57.52       | 49.22     | 0.86 | 5.287    | 10.9 | 75.56        | 123.9 | 6.8       |
| 115 | 18.5 | 57.62       | 49.22     | 0.85 | 5.247    | 11.0 | 75.53        | 123.2 | 8.0       |
| 120 | 10.0 | 54.40       | 47.82     | 0.88 | 5.948    | 9.1  | 74.70        | 135.2 | 2.7       |
| 120 | 12.3 | 54.92       | 48.12     | 0.88 | 5.807    | 9.5  | 74.74        | 132.2 | 3.9       |
| 120 | 13.9 | 55.12       | 48.22     | 0.87 | 5.747    | 9.6  | 74.73        | 130.8 | 4.7       |
| 120 | 15.4 | 55.22       | 48.12     | 0.87 | 5.687    | 9.7  | 74.63        | 129.7 | 5.7       |
| 120 | 16.2 | 55.32       | 48.32     | 0.87 | 5.667    | 9.8  | 74.66        | 129.2 | 6.2       |
| 120 | 16.9 | 55.32       | 48.22     | 0.87 | 5.647    | 9.8  | 74.59        | 128.8 | 6.8       |
| 120 | 18.5 | 55.42       | 48.32     | 0.87 | 5.617    | 9.9  | 74.59        | 128.1 | 7.9       |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 15.4, Rated CFM 2090, Minimum CFM 1672, Maximum CFM 2299.

**Table 137. Heating capacities 6 tons (gross) - EXHF070**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 25  | 15.4 | 44.24         | 31.56        | 3.715    | 3.5 | 20.9 | 9.6       |
| 25  | 16.2 | 44.44         | 31.76        | 3.715    | 3.5 | 21.1 | 10.5      |
| 25  | 16.9 | 44.54         | 31.83        | 3.725    | 3.5 | 21.2 | 11.4      |
| 25  | 18.5 | 44.84         | 32.09        | 3.735    | 3.5 | 21.5 | 13.2      |
| 32  | 10.0 | 47.20         | 34.37        | 3.760    | 3.7 | 25.0 | 4.5       |
| 32  | 12.3 | 48.24         | 35.36        | 3.775    | 3.7 | 26.3 | 6.3       |
| 32  | 13.9 | 48.74         | 35.82        | 3.785    | 3.8 | 26.8 | 7.8       |
| 32  | 15.4 | 49.24         | 36.25        | 3.805    | 3.8 | 27.3 | 9.4       |
| 32  | 16.2 | 49.44         | 36.45        | 3.805    | 3.8 | 27.5 | 10.2      |
| 32  | 16.9 | 49.54         | 36.55        | 3.805    | 3.8 | 27.7 | 11.0      |

**Table 137. Heating capacities 6 tons (gross) - EXHF070 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 32  | 18.5 | 49.74         | 36.75        | 3.805    | 3.8 | 28.0 | 12.8      |
| 45  | 10.0 | 60.36         | 46.62        | 4.025    | 4.4 | 35.6 | 3.4       |
| 45  | 12.3 | 61.84         | 48.00        | 4.055    | 4.5 | 37.2 | 4.9       |
| 45  | 13.9 | 62.44         | 48.60        | 4.055    | 4.5 | 38.0 | 6.0       |
| 45  | 15.4 | 63.04         | 49.13        | 4.075    | 4.5 | 38.6 | 7.2       |
| 45  | 16.2 | 63.24         | 49.33        | 4.075    | 4.5 | 38.9 | 7.9       |
| 45  | 16.9 | 63.34         | 49.43        | 4.075    | 4.6 | 39.2 | 8.6       |
| 45  | 18.5 | 63.74         | 49.83        | 4.075    | 4.6 | 39.6 | 10.0      |
| 55  | 10.0 | 68.59         | 54.29        | 4.188    | 4.8 | 44.0 | 3.3       |
| 55  | 12.3 | 70.44         | 56.02        | 4.225    | 4.9 | 45.9 | 4.7       |
| 55  | 13.9 | 70.74         | 56.35        | 4.215    | 4.9 | 46.9 | 5.8       |
| 55  | 15.4 | 71.64         | 57.19        | 4.235    | 5.0 | 47.6 | 7.0       |
| 55  | 16.2 | 71.94         | 57.45        | 4.245    | 5.0 | 47.9 | 7.6       |
| 55  | 16.9 | 72.14         | 57.65        | 4.245    | 5.0 | 48.2 | 8.2       |
| 55  | 18.5 | 72.64         | 58.12        | 4.255    | 5.0 | 48.7 | 9.6       |
| 68  | 10.0 | 79.51         | 64.15        | 4.500    | 5.2 | 55.0 | 3.2       |
| 68  | 12.3 | 81.74         | 66.23        | 4.545    | 5.3 | 57.2 | 4.5       |
| 68  | 13.9 | 82.64         | 67.09        | 4.555    | 5.3 | 58.3 | 5.5       |
| 68  | 15.4 | 83.34         | 67.79        | 4.555    | 5.4 | 59.2 | 6.6       |
| 68  | 16.2 | 83.64         | 68.06        | 4.565    | 5.4 | 59.6 | 7.2       |
| 68  | 16.9 | 84.04         | 68.46        | 4.565    | 5.4 | 59.9 | 7.9       |
| 68  | 18.5 | 84.54         | 68.93        | 4.575    | 5.4 | 60.5 | 9.2       |
| 75  | 10.0 | 85.79         | 69.99        | 4.628    | 5.4 | 60.8 | 3.0       |
| 75  | 12.3 | 87.94         | 72.02        | 4.665    | 5.5 | 63.3 | 4.3       |
| 75  | 13.9 | 89.14         | 73.15        | 4.685    | 5.6 | 64.5 | 5.4       |
| 75  | 15.4 | 90.14         | 74.08        | 4.705    | 5.6 | 65.4 | 6.4       |
| 75  | 16.2 | 90.54         | 74.45        | 4.715    | 5.6 | 65.8 | 7.0       |
| 75  | 16.9 | 90.84         | 74.75        | 4.715    | 5.6 | 66.2 | 7.6       |
| 75  | 18.5 | 91.44         | 75.31        | 4.725    | 5.7 | 66.9 | 8.9       |
| 77  | 10.0 | 93.95         | 77.55        | 4.806    | 5.7 | 61.3 | 2.9       |
| 77  | 12.3 | 96.84         | 80.24        | 4.865    | 5.8 | 64.0 | 4.2       |
| 77  | 13.9 | 98.04         | 81.40        | 4.875    | 5.9 | 65.3 | 5.2       |
| 77  | 15.4 | 98.94         | 82.27        | 4.885    | 5.9 | 66.3 | 6.3       |
| 77  | 16.2 | 99.34         | 82.63        | 4.895    | 5.9 | 66.8 | 6.8       |
| 77  | 16.9 | 99.74         | 83.00        | 4.905    | 6.0 | 67.2 | 7.4       |
| 77  | 18.5 | 100.24        | 83.50        | 4.905    | 6.0 | 68.0 | 8.7       |
| 86  | 10.0 | 95.80         | 79.26        | 4.846    | 5.8 | 70.0 | 2.9       |
| 86  | 12.3 | 98.84         | 82.10        | 4.905    | 5.9 | 72.7 | 4.2       |
| 86  | 13.9 | 100.04        | 83.27        | 4.915    | 6.0 | 74.0 | 5.2       |
| 86  | 15.4 | 100.94        | 84.13        | 4.925    | 6.0 | 75.1 | 6.3       |
| 86  | 16.2 | 101.34        | 84.50        | 4.935    | 6.0 | 75.6 | 6.8       |
| 86  | 16.9 | 101.74        | 84.86        | 4.945    | 6.0 | 76.0 | 7.4       |



**Table 137. Heating capacities 6 tons (gross) - EXHF070 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | COP | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|-----|------|-----------|
| 86  | 18.5 | 102.24        | 85.36        | 4.945    | 6.1 | 76.8 | 8.7       |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 15.4, Rated CFM 2090, Minimum CFM 1672, Maximum CFM 2299.

**Table 138. Fan correction factors 6 tons - EXHF070**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1672         | 0.956            | 0.878             | 1.001              | 0.983            | 1.086              |
| 1881         | 0.980            | 0.940             | 1.001              | 0.993            | 1.038              |
| 2090         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 2299         | 1.017            | 1.064             | 0.999              | 1.010            | 0.973              |

**Table 139. Correction factors for variation in entering air temperature 6 tons, EXHF070**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.932               | 1.005                     | 0.989                                     | 1.060 | 1.128 | *     | *     | 53.0                            | 1.037               | 0.868                  |
| 56.3                            | 0.931               | 1.005                     | 0.804                                     | 1.025 | 1.127 | *     | *     | 58.0                            | 1.024               | 0.910                  |
| 60.3                            | 0.929               | 1.005                     | 0.609                                     | 0.834 | 1.058 | *     | *     | 63.0                            | 1.018               | 0.957                  |
| 63.2                            | 0.955               | 1.005                     | 0.462                                     | 0.692 | 0.925 | 1.144 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.545 | 0.771 | 1.000 | 1.219 | 73.0                            | 0.988               | 1.050                  |
| 72.1                            | 1.101               | 0.993                     | —   | —     | 0.470 | 0.700 | 0.929 | 78.0                            | 0.976               | 1.101                  |
| 77.1                            | 1.192               | 0.988                     | —   | —     | —     | 0.434 | 0.671 | 83.0                            | 0.962               | 1.154                  |

**Note:** \* = Sensible equals total capacity

**Table 140. Cooling capacities 6 tons (gross) - EXVG070**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr<br>kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------------|--------------|------|-----------|
| 45  | 11.4 | 72.2        | 60.5      | 0.84 | 2.30           | 80.0         | 59.0 | 5.3       |
| 45  | 14.0 | 72.1        | 60.4      | 0.84 | 2.29           | 79.9         | 56.4 | 7.7       |
| 45  | 15.8 | 72.0        | 60.3      | 0.84 | 2.29           | 79.8         | 55.1 | 9.6       |
| 45  | 17.5 | 72.0        | 60.3      | 0.84 | 2.29           | 79.8         | 54.1 | 11.6      |
| 45  | 18.4 | 72.0        | 60.3      | 0.84 | 2.29           | 79.8         | 53.7 | 12.7      |
| 45  | 19.3 | 72.0        | 60.3      | 0.84 | 2.29           | 79.8         | 53.3 | 13.9      |
| 45  | 21.0 | 72.0        | 60.3      | 0.84 | 2.29           | 79.8         | 52.6 | 16.2      |
| 55  | 11.4 | 70.9        | 59.9      | 0.84 | 2.43           | 79.2         | 68.9 | 4.9       |
| 55  | 14.0 | 70.8        | 59.8      | 0.84 | 2.39           | 79.0         | 66.3 | 7.1       |
| 55  | 15.8 | 70.7        | 59.7      | 0.84 | 2.38           | 78.8         | 65.0 | 8.9       |
| 55  | 17.5 | 70.7        | 59.7      | 0.84 | 2.36           | 78.8         | 64.0 | 10.7      |
| 55  | 18.4 | 70.7        | 59.7      | 0.84 | 2.36           | 78.7         | 63.6 | 11.7      |
| 55  | 19.3 | 70.7        | 59.7      | 0.84 | 2.35           | 78.7         | 63.2 | 12.8      |
| 55  | 21.0 | 70.7        | 59.7      | 0.84 | 2.35           | 78.7         | 62.5 | 14.9      |
| 68  | 11.4 | 69.0        | 58.8      | 0.85 | 2.77           | 78.5         | 81.8 | 4.6       |
| 68  | 14.0 | 69.0        | 58.8      | 0.85 | 2.71           | 78.3         | 79.2 | 6.6       |
| 68  | 15.8 | 69.0        | 58.8      | 0.85 | 2.69           | 78.2         | 77.9 | 8.2       |
| 68  | 17.5 | 69.0        | 58.8      | 0.85 | 2.67           | 78.1         | 76.9 | 9.9       |



## Performance Data

**Table 140. Cooling capacities 6 tons (gross) - EXVG070 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 68  | 18.4 | 69.0        | 58.8      | 0.85 | 2.66        | 78.1         | 76.5  | 10.8      |
| 68  | 19.3 | 69.0        | 58.8      | 0.85 | 2.65        | 78.0         | 76.1  | 11.8      |
| 68  | 21.0 | 69.1        | 58.9      | 0.85 | 2.64        | 78.1         | 75.4  | 13.8      |
| 75  | 11.4 | 67.8        | 58.4      | 0.86 | 3.02        | 78.1         | 88.7  | 4.6       |
| 75  | 14.0 | 67.8        | 58.4      | 0.86 | 2.95        | 77.9         | 86.1  | 6.5       |
| 75  | 15.8 | 67.8        | 58.4      | 0.86 | 2.92        | 77.8         | 84.8  | 8.0       |
| 75  | 17.5 | 67.8        | 58.4      | 0.86 | 2.90        | 77.7         | 83.9  | 9.6       |
| 75  | 18.4 | 67.8        | 58.4      | 0.86 | 2.89        | 77.7         | 83.4  | 10.5      |
| 75  | 19.3 | 67.8        | 58.4      | 0.86 | 2.88        | 77.6         | 83.0  | 11.4      |
| 75  | 21.0 | 67.8        | 58.4      | 0.86 | 2.86        | 77.6         | 82.4  | 13.3      |
| 86  | 11.4 | 65.2        | 57.3      | 0.88 | 3.47        | 77.0         | 99.5  | 4.5       |
| 86  | 14.0 | 65.2        | 57.3      | 0.88 | 3.40        | 76.8         | 97.0  | 6.3       |
| 86  | 15.8 | 65.3        | 57.4      | 0.88 | 3.36        | 76.8         | 95.7  | 7.8       |
| 86  | 17.5 | 65.3        | 57.4      | 0.88 | 3.33        | 76.7         | 94.8  | 9.3       |
| 86  | 18.4 | 65.3        | 57.4      | 0.88 | 3.32        | 76.6         | 94.3  | 10.1      |
| 86  | 19.3 | 65.4        | 57.5      | 0.88 | 3.31        | 76.7         | 93.9  | 11.0      |
| 86  | 21.0 | 65.4        | 57.5      | 0.88 | 3.29        | 76.6         | 93.3  | 12.8      |
| 95  | 11.4 | 62.6        | 56.0      | 0.89 | 3.89        | 75.9         | 108.3 | 4.5       |
| 95  | 14.0 | 62.7        | 56.1      | 0.89 | 3.81        | 75.7         | 105.8 | 6.2       |
| 95  | 15.8 | 62.7        | 56.1      | 0.89 | 3.77        | 75.5         | 104.6 | 7.6       |
| 95  | 17.5 | 62.8        | 56.2      | 0.89 | 3.74        | 75.6         | 103.6 | 9.1       |
| 95  | 18.4 | 62.8        | 56.2      | 0.89 | 3.72        | 75.5         | 103.2 | 9.9       |
| 95  | 19.3 | 62.9        | 56.3      | 0.90 | 3.71        | 75.6         | 102.8 | 10.8      |
| 95  | 21.0 | 62.9        | 56.3      | 0.90 | 3.69        | 75.5         | 102.2 | 12.5      |
| 105 | 11.4 | 59.2        | 54.3      | 0.92 | 4.38        | 74.2         | 118.0 | 4.3       |
| 105 | 14.0 | 59.4        | 54.5      | 0.92 | 4.30        | 74.1         | 115.6 | 6.1       |
| 105 | 15.8 | 59.5        | 54.6      | 0.92 | 4.26        | 74.0         | 114.4 | 7.5       |
| 105 | 17.5 | 59.5        | 54.6      | 0.92 | 4.23        | 73.9         | 113.4 | 8.9       |
| 105 | 18.4 | 59.6        | 54.7      | 0.92 | 4.21        | 74.0         | 113.0 | 9.7       |
| 105 | 19.3 | 59.6        | 54.7      | 0.92 | 4.20        | 73.9         | 112.7 | 10.6      |
| 105 | 21.0 | 59.7        | 54.8      | 0.92 | 4.18        | 74.0         | 112.0 | 12.2      |
| 115 | 11.4 | 55.4        | 52.5      | 0.95 | 4.91        | 72.1         | 127.6 | 4.1       |
| 115 | 14.0 | 55.6        | 52.7      | 0.95 | 4.82        | 72.1         | 125.3 | 5.9       |
| 115 | 15.8 | 55.7        | 52.8      | 0.95 | 4.78        | 72.0         | 124.1 | 7.3       |
| 115 | 17.5 | 55.8        | 52.9      | 0.95 | 4.75        | 72.0         | 123.2 | 8.7       |
| 115 | 18.4 | 55.9        | 53.0      | 0.95 | 4.73        | 72.1         | 122.8 | 9.5       |
| 115 | 19.3 | 55.9        | 53.0      | 0.95 | 4.72        | 72.0         | 122.5 | 10.3      |
| 115 | 21.0 | 56.0        | 53.1      | 0.95 | 4.70        | 72.0         | 121.9 | 12.0      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 17.5; Minimum CFM 1772; Rated CFM 2215; Maximum CFM 2658.

**Table 141. Heating capacities 6 tons (gross) - EXVG070**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 25  | 11.4 | 42.9          | 32.2         | 3.15        | 19.4 | 6.9       |
| 25  | 14.0 | 43.5          | 32.7         | 3.16        | 20.3 | 9.8       |
| 25  | 15.8 | 43.8          | 33.0         | 3.16        | 20.8 | 12.1      |
| 25  | 17.5 | 44.1          | 33.3         | 3.16        | 21.2 | 14.5      |
| 25  | 18.4 | 44.2          | 33.4         | 3.17        | 21.4 | 15.8      |
| 25  | 19.3 | 44.2          | 33.4         | 3.17        | 21.5 | 17.1      |
| 25  | 21.0 | 44.3          | 33.5         | 3.17        | 21.8 | 19.8      |
| 32  | 11.4 | 47.7          | 36.7         | 3.23        | 25.6 | 6.2       |
| 32  | 14.0 | 48.5          | 37.4         | 3.24        | 26.7 | 9.0       |
| 32  | 15.8 | 49.0          | 37.9         | 3.25        | 27.2 | 11.1      |
| 32  | 17.5 | 49.3          | 38.2         | 3.26        | 27.6 | 13.3      |
| 32  | 18.4 | 49.5          | 38.4         | 3.26        | 27.8 | 14.5      |
| 32  | 19.3 | 49.6          | 38.5         | 3.26        | 28.0 | 15.8      |
| 32  | 21.0 | 49.7          | 38.6         | 3.26        | 28.3 | 18.3      |
| 45  | 11.4 | 57.1          | 45.5         | 3.40        | 37.0 | 5.3       |
| 45  | 14.0 | 58.3          | 46.6         | 3.42        | 38.3 | 7.7       |
| 45  | 15.8 | 59.0          | 47.3         | 3.43        | 39.0 | 9.6       |
| 45  | 17.5 | 59.5          | 47.8         | 3.44        | 39.5 | 11.6      |
| 45  | 18.4 | 59.7          | 47.9         | 3.45        | 39.8 | 12.7      |
| 45  | 19.3 | 59.9          | 48.1         | 3.45        | 40.0 | 13.9      |
| 45  | 21.0 | 60.1          | 48.3         | 3.45        | 40.4 | 16.2      |
| 55  | 11.4 | 64.7          | 52.6         | 3.55        | 45.8 | 4.9       |
| 55  | 14.0 | 66.2          | 54.0         | 3.57        | 47.3 | 7.1       |
| 55  | 15.8 | 67.0          | 54.8         | 3.59        | 48.1 | 8.9       |
| 55  | 17.5 | 67.6          | 55.3         | 3.60        | 48.7 | 10.7      |
| 55  | 18.4 | 67.9          | 55.6         | 3.61        | 49.0 | 11.7      |
| 55  | 19.3 | 68.1          | 55.8         | 3.61        | 49.2 | 12.8      |
| 55  | 21.0 | 68.5          | 56.2         | 3.62        | 49.6 | 14.9      |
| 68  | 11.4 | 75.2          | 62.4         | 3.76        | 57.1 | 4.6       |
| 68  | 14.0 | 76.9          | 64.0         | 3.79        | 58.9 | 6.6       |
| 68  | 15.8 | 77.9          | 64.9         | 3.81        | 59.8 | 8.2       |
| 68  | 17.5 | 78.6          | 65.5         | 3.83        | 60.5 | 9.9       |
| 68  | 18.4 | 79.0          | 65.9         | 3.84        | 60.8 | 10.8      |
| 68  | 19.3 | 79.2          | 66.1         | 3.84        | 61.2 | 11.8      |
| 68  | 21.0 | 79.7          | 66.6         | 3.85        | 61.7 | 13.8      |
| 75  | 11.4 | 81.0          | 67.7         | 3.89        | 63.1 | 4.6       |
| 75  | 14.0 | 82.9          | 69.5         | 3.93        | 65.1 | 6.5       |
| 75  | 15.8 | 84.0          | 70.5         | 3.95        | 66.1 | 8.0       |
| 75  | 17.5 | 84.8          | 71.3         | 3.97        | 66.9 | 9.6       |
| 75  | 18.4 | 85.1          | 71.5         | 3.97        | 67.2 | 10.5      |
| 75  | 19.3 | 85.4          | 71.8         | 3.98        | 67.6 | 11.4      |



## Performance Data

**Table 141. Heating capacities 6 tons (gross) - EXVG070 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 75  | 21.0 | 85.9          | 72.3         | 3.99        | 68.1 | 13.3      |
| 86  | 11.4 | 90.5          | 76.5         | 4.11        | 72.6 | 4.5       |
| 86  | 14.0 | 92.6          | 78.4         | 4.16        | 74.8 | 6.3       |
| 86  | 15.8 | 93.7          | 79.4         | 4.18        | 75.9 | 7.8       |
| 86  | 17.5 | 94.6          | 80.3         | 4.20        | 76.8 | 9.3       |
| 86  | 18.4 | 95.0          | 80.6         | 4.21        | 77.2 | 10.1      |
| 86  | 19.3 | 95.3          | 80.9         | 4.22        | 77.6 | 11.0      |
| 86  | 21.0 | 95.8          | 81.4         | 4.23        | 78.2 | 12.8      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 17.5; Minimum CFM 1772; Rated CFM 2215; Maximum CFM 2658.

**Table 142. Fan correction factors 6 tons - EXVG070**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1772         | 0.965            | 0.867             | 0.995               | 0.989            | 1.088               |
| 1883         | 0.975            | 0.900             | 0.997               | 0.993            | 1.062               |
| 1994         | 0.984            | 0.934             | 0.998               | 0.996            | 1.039               |
| 2104         | 0.992            | 0.967             | 0.999               | 0.998            | 1.018               |
| 2215         | 1.000            | 1.000             | 1.000               | 1.000            | 1.000               |
| 2437         | 1.017            | 1.063             | 1.002               | 1.003            | 0.968               |
| 2547         | 1.025            | 1.094             | 1.003               | 1.004            | 0.955               |
| 2658         | 1.031            | 1.128             | 1.004               | 1.005            | 0.943               |

**Table 143. Correction factors for variation in entering air temperature 6 tons, EXVG070**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.6                                      | 70.6  | 75.6  | 80.6  | 85.6  |                                 |                     |                        |
| 49.4                            | 0.910               | 0.993                     | 0.926                                     | 0.994 | 1.051 | *     | *     | 53.0                            | 1.028               | 0.844                  |
| 56.3                            | 0.913               | 0.992                     | 0.808                                     | 0.948 | 1.049 | *     | *     | 58.0                            | 1.020               | 0.893                  |
| 60.3                            | 0.929               | 0.993                     | 0.654                                     | 0.853 | 0.997 | *     | *     | 63.0                            | 1.011               | 0.945                  |
| 63.2                            | 0.962               | 0.996                     | 0.500                                     | 0.748 | 0.929 | 1.065 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.605 | 0.830 | 1.000 | 1.132 | 73.0                            | 0.988               | 1.058                  |
| 72.1                            | 1.109               | 1.015                     | —   | —     | 0.546 | 0.793 | 0.987 | 78.0                            | 0.975               | 1.117                  |
| 77.1                            | 1.207               | 1.034                     | —   | —     | —     | —     | 0.789 | 83.0                            | 0.961               | 1.179                  |

**Note:** \* = Sensible equals total capacity

**Table 144. Cooling capacities 6 tons (gross) - DXHF070**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT  | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|------|-----------|
| 45  | 10.0 | 80.6        | 50.2      | 0.62 | 2.63     | 89.6         | 62.9 | 3.5       |
| 45  | 12.3 | 80.9        | 50.4      | 0.62 | 2.52     | 89.5         | 59.6 | 5.0       |
| 45  | 13.9 | 81.0        | 50.5      | 0.62 | 2.47     | 89.4         | 57.9 | 6.3       |
| 45  | 15.4 | 81.1        | 50.5      | 0.62 | 2.43     | 89.4         | 56.6 | 7.6       |
| 45  | 16.2 | 81.2        | 50.6      | 0.62 | 2.41     | 89.4         | 56.0 | 8.4       |
| 45  | 16.9 | 81.2        | 50.6      | 0.62 | 2.39     | 89.4         | 55.6 | 9.0       |
| 45  | 18.5 | 81.3        | 50.6      | 0.62 | 2.36     | 89.4         | 54.7 | 10.6      |

**Table 144. Cooling capacities 6 tons (gross) - DXHF070 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 55  | 10.0 | 78.1        | 50.3      | 0.64 | 2.98     | 88.3         | 72.7  | 3.2       |
| 55  | 12.3 | 78.4        | 50.5      | 0.64 | 2.86     | 88.2         | 69.3  | 4.6       |
| 55  | 13.9 | 78.5        | 50.6      | 0.64 | 2.81     | 88.1         | 67.7  | 5.8       |
| 55  | 15.4 | 78.6        | 50.6      | 0.64 | 2.77     | 88.0         | 66.4  | 7.0       |
| 55  | 16.2 | 78.7        | 50.7      | 0.64 | 2.75     | 88.1         | 65.9  | 7.7       |
| 55  | 16.9 | 78.7        | 50.7      | 0.64 | 2.73     | 88.0         | 65.4  | 8.3       |
| 55  | 18.5 | 78.8        | 50.7      | 0.64 | 2.70     | 88.0         | 64.5  | 9.8       |
| 65  | 10.0 | 76.3        | 50.6      | 0.66 | 3.31     | 87.6         | 82.5  | 3.0       |
| 65  | 12.3 | 76.5        | 50.7      | 0.66 | 3.20     | 87.4         | 79.2  | 4.4       |
| 65  | 13.9 | 76.7        | 50.9      | 0.66 | 3.15     | 87.4         | 77.6  | 5.4       |
| 65  | 15.4 | 76.8        | 50.9      | 0.66 | 3.11     | 87.4         | 76.4  | 6.6       |
| 65  | 16.2 | 76.8        | 50.9      | 0.66 | 3.09     | 87.3         | 75.8  | 7.2       |
| 65  | 16.9 | 76.9        | 51.0      | 0.66 | 3.07     | 87.4         | 75.3  | 7.8       |
| 65  | 18.5 | 76.9        | 51.0      | 0.66 | 3.04     | 87.3         | 74.4  | 9.2       |
| 75  | 10.0 | 73.9        | 50.0      | 0.68 | 3.69     | 86.5         | 92.3  | 3.0       |
| 75  | 12.3 | 74.1        | 50.2      | 0.68 | 3.57     | 86.3         | 89.0  | 4.2       |
| 75  | 13.9 | 74.3        | 50.3      | 0.68 | 3.52     | 86.3         | 87.4  | 5.3       |
| 75  | 15.4 | 74.4        | 50.4      | 0.68 | 3.48     | 86.3         | 86.2  | 6.3       |
| 75  | 16.2 | 74.4        | 50.4      | 0.68 | 3.46     | 86.2         | 85.6  | 6.9       |
| 75  | 16.9 | 74.4        | 50.4      | 0.68 | 3.44     | 86.2         | 85.2  | 7.5       |
| 75  | 18.5 | 74.5        | 50.4      | 0.68 | 3.42     | 86.2         | 84.3  | 8.8       |
| 85  | 10.0 | 70.7        | 48.9      | 0.69 | 4.11     | 84.7         | 101.9 | 3.0       |
| 85  | 12.3 | 71.0        | 49.1      | 0.69 | 3.99     | 84.6         | 98.8  | 4.2       |
| 85  | 13.9 | 71.1        | 49.1      | 0.69 | 3.94     | 84.5         | 97.2  | 5.2       |
| 85  | 15.4 | 71.2        | 49.2      | 0.69 | 3.90     | 84.5         | 96.0  | 6.2       |
| 85  | 16.2 | 71.3        | 49.3      | 0.69 | 3.88     | 84.5         | 95.4  | 6.8       |
| 85  | 16.9 | 71.3        | 49.3      | 0.69 | 3.86     | 84.5         | 95.0  | 7.3       |
| 85  | 18.5 | 71.4        | 49.3      | 0.69 | 3.84     | 84.5         | 94.1  | 8.6       |
| 95  | 10.0 | 67.2        | 47.6      | 0.71 | 4.58     | 82.8         | 111.6 | 3.0       |
| 95  | 12.3 | 67.4        | 47.7      | 0.71 | 4.46     | 82.6         | 108.4 | 4.2       |
| 95  | 13.9 | 67.6        | 47.9      | 0.71 | 4.41     | 82.7         | 106.9 | 5.1       |
| 95  | 15.4 | 67.7        | 47.9      | 0.71 | 4.37     | 82.6         | 105.7 | 6.1       |
| 95  | 16.2 | 67.7        | 47.9      | 0.71 | 4.35     | 82.5         | 105.2 | 6.7       |
| 95  | 16.9 | 67.8        | 48.0      | 0.71 | 4.33     | 82.6         | 104.8 | 7.2       |
| 95  | 18.5 | 67.8        | 48.0      | 0.71 | 4.31     | 82.5         | 103.9 | 8.4       |
| 105 | 10.0 | 63.6        | 46.2      | 0.73 | 5.10     | 81.0         | 121.2 | 2.9       |
| 105 | 12.3 | 63.9        | 46.5      | 0.73 | 4.99     | 80.9         | 118.2 | 4.1       |
| 105 | 13.9 | 64.0        | 46.5      | 0.73 | 4.94     | 80.8         | 116.6 | 5.0       |
| 105 | 15.4 | 64.1        | 46.6      | 0.73 | 4.89     | 80.8         | 115.5 | 6.0       |
| 105 | 16.2 | 64.1        | 46.6      | 0.73 | 4.88     | 80.7         | 115.0 | 6.5       |
| 105 | 16.9 | 64.2        | 46.7      | 0.73 | 4.86     | 80.8         | 114.6 | 7.0       |
| 105 | 18.5 | 64.2        | 46.7      | 0.73 | 4.83     | 80.7         | 113.7 | 8.2       |
| 115 | 10.0 | 59.9        | 44.9      | 0.75 | 5.69     | 79.3         | 130.9 | 2.7       |



## Performance Data

**Table 144. Cooling capacities 6 tons (gross) - DXHF070 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Power kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|----------|--------------|-------|-----------|
| 115 | 12.3 | 60.2        | 45.2      | 0.75 | 5.58     | 79.2         | 127.9 | 3.9       |
| 115 | 13.9 | 60.3        | 45.2      | 0.75 | 5.52     | 79.1         | 126.4 | 4.9       |
| 115 | 15.4 | 60.4        | 45.3      | 0.75 | 5.48     | 79.1         | 125.3 | 5.8       |
| 115 | 16.2 | 60.4        | 45.3      | 0.75 | 5.46     | 79.0         | 124.8 | 6.4       |
| 115 | 16.9 | 60.5        | 45.4      | 0.75 | 5.45     | 79.1         | 124.4 | 6.8       |
| 115 | 18.5 | 60.5        | 45.4      | 0.75 | 5.42     | 79.0         | 123.5 | 8.0       |
| 120 | 10.0 | 57.7        | 43.9      | 0.76 | 6.01     | 78.2         | 135.6 | 2.5       |
| 120 | 12.3 | 57.9        | 44.1      | 0.76 | 5.90     | 78.0         | 132.7 | 3.8       |
| 120 | 13.9 | 58.1        | 44.2      | 0.76 | 5.85     | 78.0         | 131.2 | 4.7       |
| 120 | 15.4 | 58.2        | 44.3      | 0.76 | 5.80     | 78.0         | 130.1 | 5.7       |
| 120 | 16.2 | 58.2        | 44.3      | 0.76 | 5.79     | 77.9         | 129.6 | 6.2       |
| 120 | 16.9 | 58.3        | 44.4      | 0.76 | 5.77     | 78.0         | 129.2 | 6.7       |
| 120 | 18.5 | 58.3        | 44.4      | 0.76 | 5.74     | 77.9         | 128.4 | 7.9       |

**Note:** Cooling performance data is tabulated at 80°F DB/67°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 15.4, Rated CFM 2090, Minimum CFM 1672, Maximum CFM 2299.

**Table 145. Heating capacities 6 tons (gross) - DXHF070**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 25  | 16.2 | 53.9          | 40.8         | 3.85     | 20.0 | 10.7      |
| 25  | 16.9 | 54.4          | 41.2         | 3.86     | 20.1 | 11.5      |
| 25  | 18.5 | 55.3          | 42.0         | 3.89     | 20.5 | 13.3      |
| 35  | 10.0 | 55.9          | 42.1         | 4.03     | 26.6 | 4.0       |
| 35  | 12.3 | 57.8          | 43.9         | 4.09     | 27.9 | 5.7       |
| 35  | 13.9 | 59.2          | 45.1         | 4.13     | 28.5 | 7.1       |
| 35  | 15.4 | 60.3          | 46.1         | 4.17     | 29.0 | 8.6       |
| 35  | 16.2 | 60.8          | 46.5         | 4.18     | 29.3 | 9.4       |
| 35  | 16.9 | 61.2          | 46.9         | 4.19     | 29.4 | 10.1      |
| 35  | 18.5 | 61.8          | 47.4         | 4.22     | 29.9 | 11.8      |
| 45  | 10.0 | 64.9          | 50.3         | 4.28     | 34.9 | 3.5       |
| 45  | 12.3 | 66.2          | 51.4         | 4.33     | 36.6 | 5.0       |
| 45  | 13.9 | 67.3          | 52.4         | 4.38     | 37.5 | 6.3       |
| 45  | 15.4 | 68.2          | 53.1         | 4.41     | 38.1 | 7.6       |
| 45  | 16.2 | 68.6          | 53.5         | 4.42     | 38.4 | 8.4       |
| 45  | 16.9 | 68.9          | 53.8         | 4.43     | 38.6 | 9.0       |
| 45  | 18.5 | 69.3          | 54.1         | 4.46     | 39.2 | 10.6      |
| 55  | 10.0 | 73.8          | 58.4         | 4.51     | 43.3 | 3.2       |
| 55  | 12.3 | 74.9          | 59.3         | 4.57     | 45.4 | 4.6       |
| 55  | 13.9 | 76.0          | 60.2         | 4.62     | 46.3 | 5.8       |
| 55  | 15.4 | 76.9          | 61.0         | 4.65     | 47.1 | 7.0       |
| 55  | 16.2 | 77.2          | 61.3         | 4.66     | 47.4 | 7.7       |
| 55  | 16.9 | 77.5          | 61.6         | 4.67     | 47.7 | 8.3       |
| 55  | 18.5 | 77.8          | 61.8         | 4.70     | 48.3 | 9.8       |
| 65  | 10.0 | 82.6          | 66.3         | 4.79     | 51.7 | 3.0       |

**Table 145. Heating capacities 6 tons (gross) - DXHF070 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Power kW | LWT  | Feet Head |
|-----|------|---------------|--------------|----------|------|-----------|
| 65  | 12.3 | 84.0          | 67.5         | 4.84     | 54.0 | 4.4       |
| 65  | 13.9 | 85.2          | 68.5         | 4.89     | 55.1 | 5.4       |
| 65  | 15.4 | 86.1          | 69.3         | 4.93     | 56.0 | 6.6       |
| 65  | 16.2 | 86.5          | 69.7         | 4.94     | 56.4 | 7.2       |
| 65  | 16.9 | 86.8          | 69.9         | 4.95     | 56.7 | 7.8       |
| 65  | 18.5 | 87.2          | 70.2         | 4.97     | 57.4 | 9.2       |
| 75  | 10.0 | 91.1          | 73.6         | 5.11     | 60.3 | 3.0       |
| 75  | 12.3 | 93.2          | 75.6         | 5.17     | 62.7 | 4.2       |
| 75  | 13.9 | 94.7          | 76.9         | 5.22     | 63.9 | 5.3       |
| 75  | 15.4 | 95.8          | 77.9         | 5.25     | 64.9 | 6.3       |
| 75  | 16.2 | 96.3          | 78.3         | 5.26     | 65.3 | 6.9       |
| 75  | 16.9 | 96.7          | 78.7         | 5.27     | 65.7 | 7.5       |
| 75  | 18.5 | 97.3          | 79.2         | 5.30     | 66.4 | 8.8       |
| 85  | 10.0 | 99.3          | 80.7         | 5.46     | 68.9 | 3.0       |
| 85  | 12.3 | 102.4         | 83.6         | 5.51     | 71.4 | 4.2       |
| 85  | 13.9 | 104.4         | 85.4         | 5.56     | 72.7 | 5.2       |
| 85  | 15.4 | 106.0         | 86.9         | 5.59     | 73.7 | 6.2       |
| 85  | 16.2 | 106.6         | 87.5         | 5.60     | 74.2 | 6.8       |
| 85  | 16.9 | 107.1         | 87.9         | 5.61     | 74.6 | 7.3       |
| 85  | 18.5 | 108.0         | 88.7         | 5.64     | 75.4 | 8.6       |
| 85  | 16.2 | 53.9          | 40.8         | 3.85     | 20.0 | 10.7      |

**Note:** Heating performance data is tabulated at 68°F DB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For ANSI/AHRI/ASHRAE/ISO13256-1 certified ratings, refer to the ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance table. See performance correction tables to correct performance at conditions other than those tabulated. Data shown is for unit performance only. Interpolation is permissible, extrapolation is not. Rated GPM 15.4, Rated CFM 2090, Minimum CFM 1672, Maximum CFM 2299.

**Table 146. Fan correction factors 6 tons - DXHF070**

| Entering CFM | Cooling capacity | Sensible capacity | Cooling comp watts | Heating capacity | Heating comp watts |
|--------------|------------------|-------------------|--------------------|------------------|--------------------|
| 1672         | 0.958            | 0.893             | 0.996              | 0.990            | 1.103              |
| 1881         | 0.981            | 0.948             | 0.998              | 0.996            | 1.047              |
| 2090         | 1.000            | 1.000             | 1.000              | 1.000            | 1.000              |
| 2299         | 1.016            | 1.053             | 1.002              | 1.003            | 0.963              |

**Table 147. Correction factors for variation in entering air temperature 6 tons, DXHF070**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  | 90.0  |                                 |                     |                        |
| 50.0                            | 0.912               | 0.988                     | 1.040                                     | 1.142 | *     | *     | *     | *     | 55.0                            | 1.019               | 0.852                  |
| 55.0                            | 0.900               | 0.987                     | 0.903                                     | 1.074 | 1.203 | *     | *     | *     | 58.0                            | 1.018               | 0.885                  |
| 60.0                            | 0.922               | 0.990                     | 0.644                                     | 0.896 | 1.092 | 1.248 | *     | *     | 61.0                            | 1.015               | 0.914                  |
| 65.0                            | 0.973               | 0.996                     | 0.271                                     | 0.608 | 0.874 | 1.089 | 1.267 | *     | 64.0                            | 1.011               | 0.942                  |
| 67.0                            | 1.000               | 1.000                     | —   | 0.466 | 0.761 | 1.000 | 1.198 | *     | 67.0                            | 1.006               | 0.971                  |
| 70.0                            | 1.046               | 1.006                     | —   | 0.228 | 0.565 | 0.840 | 1.069 | 1.262 | 70.0                            | 1.000               | 1.000                  |
| 75.0                            | 1.136               | 1.018                     | —   | —     | 0.186 | 0.520 | 0.799 | 1.035 | 73.0                            | 0.993               | 1.031                  |
| 78.0                            | 1.195               | 1.026                     | —   | —     | —     | 0.301 | 0.609 | 0.871 | 76.0                            | 0.986               | 1.062                  |

**Note:** \* = Sensible equals total capacity



## Performance Data

Table 148. Cooling capacities 6 tons (gross) - DXVG070

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 45  | 11.4 | 73.8        | 60.9      | 0.83 | 3.11        | 84.4         | 59.8  | 5.4       |
| 45  | 14.0 | 74.0        | 61.1      | 0.83 | 3.05        | 84.4         | 57.1  | 7.8       |
| 45  | 15.8 | 74.0        | 61.1      | 0.83 | 3.02        | 84.3         | 55.7  | 9.8       |
| 45  | 17.5 | 74.1        | 61.2      | 0.83 | 3.01        | 84.4         | 54.6  | 11.8      |
| 45  | 18.4 | 74.1        | 61.2      | 0.83 | 3.00        | 84.3         | 54.2  | 12.9      |
| 45  | 19.3 | 74.1        | 61.2      | 0.83 | 2.99        | 84.3         | 53.7  | 14.0      |
| 45  | 21.0 | 74.2        | 61.2      | 0.82 | 2.98        | 84.4         | 53.0  | 16.3      |
| 55  | 11.4 | 71.5        | 59.7      | 0.83 | 3.42        | 83.2         | 69.6  | 4.9       |
| 55  | 14.0 | 71.7        | 59.9      | 0.84 | 3.36        | 83.1         | 66.9  | 7.2       |
| 55  | 15.8 | 71.7        | 59.9      | 0.84 | 3.32        | 83.0         | 65.5  | 9.0       |
| 55  | 17.5 | 71.8        | 60.0      | 0.84 | 3.30        | 83.1         | 64.5  | 10.8      |
| 55  | 18.4 | 71.8        | 60.0      | 0.84 | 3.29        | 83.0         | 64.0  | 11.8      |
| 55  | 19.3 | 71.8        | 60.0      | 0.84 | 3.28        | 83.0         | 63.6  | 12.9      |
| 55  | 21.0 | 71.9        | 60.1      | 0.84 | 3.26        | 83.0         | 62.9  | 15.0      |
| 68  | 11.4 | 69.4        | 59.0      | 0.85 | 3.90        | 82.7         | 82.5  | 4.7       |
| 68  | 14.0 | 69.6        | 59.1      | 0.85 | 3.82        | 82.6         | 79.8  | 6.7       |
| 68  | 15.8 | 69.7        | 59.2      | 0.85 | 3.78        | 82.6         | 78.5  | 8.3       |
| 68  | 17.5 | 69.7        | 59.2      | 0.85 | 3.75        | 82.5         | 77.4  | 10.0      |
| 68  | 18.4 | 69.7        | 59.2      | 0.85 | 3.74        | 82.5         | 77.0  | 10.9      |
| 68  | 19.3 | 69.8        | 59.3      | 0.85 | 3.73        | 82.5         | 76.5  | 11.9      |
| 68  | 21.0 | 69.8        | 59.3      | 0.85 | 3.71        | 82.5         | 75.9  | 13.8      |
| 75  | 11.4 | 68.2        | 58.5      | 0.86 | 4.20        | 82.5         | 89.5  | 4.6       |
| 75  | 14.0 | 68.4        | 58.7      | 0.86 | 4.11        | 82.4         | 86.8  | 6.6       |
| 75  | 15.8 | 68.4        | 58.7      | 0.86 | 4.07        | 82.3         | 85.4  | 8.1       |
| 75  | 17.5 | 68.5        | 58.8      | 0.86 | 4.04        | 82.3         | 84.4  | 9.7       |
| 75  | 18.4 | 68.5        | 58.8      | 0.86 | 4.02        | 82.2         | 83.9  | 10.6      |
| 75  | 19.3 | 68.5        | 58.8      | 0.86 | 4.01        | 82.2         | 83.5  | 11.5      |
| 75  | 21.0 | 68.6        | 58.8      | 0.86 | 3.99        | 82.2         | 82.8  | 13.4      |
| 86  | 11.4 | 65.6        | 57.3      | 0.87 | 4.72        | 81.7         | 100.3 | 4.6       |
| 86  | 14.0 | 65.8        | 57.5      | 0.87 | 4.63        | 81.6         | 97.7  | 6.4       |
| 86  | 15.8 | 65.9        | 57.6      | 0.87 | 4.58        | 81.5         | 96.3  | 7.9       |
| 86  | 17.5 | 65.9        | 57.6      | 0.87 | 4.54        | 81.4         | 95.3  | 9.4       |
| 86  | 18.4 | 65.9        | 57.6      | 0.87 | 4.53        | 81.4         | 94.8  | 10.2      |
| 86  | 19.3 | 66.0        | 57.7      | 0.87 | 4.52        | 81.4         | 94.4  | 11.1      |
| 86  | 21.0 | 66.0        | 57.7      | 0.87 | 4.49        | 81.3         | 93.7  | 12.9      |
| 95  | 11.4 | 63.0        | 56.1      | 0.89 | 5.21        | 80.8         | 109.2 | 4.6       |
| 95  | 14.0 | 63.2        | 56.2      | 0.89 | 5.11        | 80.6         | 106.5 | 6.4       |
| 95  | 15.8 | 63.2        | 56.2      | 0.89 | 5.06        | 80.5         | 105.2 | 7.8       |
| 95  | 17.5 | 63.3        | 56.3      | 0.89 | 5.02        | 80.4         | 104.2 | 9.2       |
| 95  | 18.4 | 63.3        | 56.3      | 0.89 | 5.00        | 80.4         | 103.7 | 10.0      |
| 95  | 19.3 | 63.3        | 56.3      | 0.89 | 4.99        | 80.3         | 103.3 | 10.9      |



**Table 148. Cooling capacities 6 tons (gross) - DXVG070 (continued)**

| EWT | GPM  | Total Mbtuh | Sen Mbtuh | SHR  | Comp Pwr kW | Reject Mbtuh | LWT   | Feet Head |
|-----|------|-------------|-----------|------|-------------|--------------|-------|-----------|
| 95  | 21.0 | 63.4        | 56.4      | 0.89 | 4.96        | 80.3         | 102.6 | 12.6      |
| 105 | 11.4 | 59.7        | 54.5      | 0.91 | 5.82        | 79.6         | 119.0 | 4.4       |
| 105 | 14.0 | 59.8        | 54.6      | 0.91 | 5.71        | 79.3         | 116.3 | 6.2       |
| 105 | 15.8 | 59.9        | 54.7      | 0.91 | 5.66        | 79.2         | 115.0 | 7.6       |
| 105 | 17.5 | 59.9        | 54.7      | 0.91 | 5.62        | 79.1         | 114.0 | 9.1       |
| 105 | 18.4 | 60.0        | 54.8      | 0.91 | 5.60        | 79.1         | 113.6 | 9.9       |
| 105 | 19.3 | 60.0        | 54.8      | 0.91 | 5.59        | 79.1         | 113.2 | 10.7      |
| 105 | 21.0 | 60.0        | 54.8      | 0.91 | 5.56        | 79.0         | 112.5 | 12.4      |
| 115 | 11.4 | 56.1        | 52.9      | 0.94 | 6.51        | 78.3         | 128.7 | 4.2       |
| 115 | 14.0 | 56.3        | 53.1      | 0.94 | 6.39        | 78.1         | 126.2 | 6.0       |
| 115 | 15.8 | 56.3        | 53.1      | 0.94 | 6.34        | 77.9         | 124.9 | 7.4       |
| 115 | 17.5 | 56.3        | 53.1      | 0.94 | 6.30        | 77.8         | 123.9 | 8.8       |
| 115 | 18.4 | 56.4        | 53.2      | 0.94 | 6.28        | 77.8         | 123.5 | 9.6       |
| 115 | 19.3 | 56.4        | 53.2      | 0.94 | 6.27        | 77.8         | 123.1 | 10.5      |
| 115 | 21.0 | 56.4        | 53.2      | 0.94 | 6.24        | 77.7         | 122.4 | 12.1      |

**Note:** Cooling performance data is tabulated at 80.6°F DB/66.2°F WB entering air at ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the cooling correction factors for variations in entering air temperature. Rated GPM 17.5; Minimum CFM 1772; Rated CFM 2215; Maximum CFM 2658.

**Table 149. Heating capacities 6 tons (gross) - DXVG070**

| EWT | GPM   | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT   | Feet Head |
|-----|-------|---------------|--------------|-------------|-------|-----------|
| 25  | 11.40 | 43.40         | 29.30        | 4.130       | 19.90 | 7.10      |
| 25  | 14.00 | 44.20         | 30.10        | 4.150       | 20.70 | 10.10     |
| 25  | 15.80 | 44.60         | 30.40        | 4.160       | 21.20 | 12.50     |
| 25  | 17.50 | 44.80         | 30.60        | 4.160       | 21.50 | 14.80     |
| 25  | 18.40 | 44.90         | 30.70        | 4.170       | 21.70 | 16.20     |
| 25  | 19.30 | 45.10         | 30.90        | 4.170       | 21.80 | 17.50     |
| 25  | 21.00 | 45.30         | 31.10        | 4.170       | 22.00 | 20.20     |
| 32  | 11.40 | 48.40         | 33.90        | 4.250       | 26.10 | 6.30      |
| 32  | 14.00 | 49.40         | 34.80        | 4.270       | 27.00 | 9.10      |
| 32  | 15.80 | 49.80         | 35.20        | 4.280       | 27.50 | 11.30     |
| 32  | 17.50 | 50.20         | 35.60        | 4.290       | 27.90 | 13.60     |
| 32  | 18.40 | 50.30         | 35.60        | 4.290       | 28.10 | 14.80     |
| 32  | 19.30 | 50.50         | 35.80        | 4.30        | 28.30 | 16.10     |
| 32  | 21.00 | 50.70         | 36.00        | 4.30        | 28.60 | 18.60     |
| 45  | 11.40 | 58.20         | 42.80        | 4.50        | 37.50 | 5.40      |
| 45  | 14.00 | 59.50         | 44.00        | 4.53        | 38.70 | 7.80      |
| 45  | 15.80 | 60.10         | 44.60        | 4.55        | 39.40 | 9.80      |
| 45  | 17.50 | 60.60         | 45.10        | 4.56        | 39.80 | 11.80     |
| 45  | 18.4  | 60.8          | 45.2         | 4.56        | 40.1  | 12.9      |
| 45  | 19.3  | 61.0          | 45.4         | 4.56        | 40.3  | 14.0      |
| 45  | 21.0  | 61.3          | 45.7         | 4.57        | 40.6  | 16.3      |
| 55  | 11.4  | 66.1          | 50.0         | 4.71        | 46.2  | 4.9       |



## Performance Data

**Table 149. Heating capacities 6 tons (gross) - DXVG070 (continued)**

| EWT | GPM  | Htg Cap Mbtuh | Absorb Mbtuh | Comp Pwr kW | LWT  | Feet Head |
|-----|------|---------------|--------------|-------------|------|-----------|
| 55  | 14.0 | 67.6          | 51.4         | 4.75        | 47.7 | 7.2       |
| 55  | 15.8 | 68.3          | 52.0         | 4.76        | 48.4 | 9.0       |
| 55  | 17.5 | 68.9          | 52.6         | 4.78        | 49.0 | 10.8      |
| 55  | 18.4 | 69.2          | 52.9         | 4.78        | 49.3 | 11.8      |
| 55  | 19.3 | 69.4          | 53.1         | 4.79        | 49.5 | 12.9      |
| 55  | 21.0 | 69.8          | 53.4         | 4.80        | 49.9 | 15.0      |
| 68  | 11.4 | 76.7          | 59.7         | 5.00        | 57.5 | 4.7       |
| 68  | 14.0 | 78.5          | 61.3         | 5.04        | 59.2 | 6.7       |
| 68  | 15.8 | 79.4          | 62.1         | 5.06        | 60.1 | 8.3       |
| 68  | 17.5 | 80.1          | 62.8         | 5.08        | 60.8 | 10.0      |
| 68  | 18.4 | 80.4          | 63.0         | 5.09        | 61.2 | 10.9      |
| 68  | 19.3 | 80.7          | 63.3         | 5.09        | 61.4 | 11.9      |
| 68  | 21.0 | 81.1          | 63.7         | 5.10        | 61.9 | 13.8      |
| 75  | 11.4 | 82.5          | 64.9         | 5.15        | 63.6 | 4.6       |
| 75  | 14.0 | 84.4          | 66.7         | 5.20        | 65.5 | 6.6       |
| 75  | 15.8 | 85.5          | 67.7         | 5.23        | 66.4 | 8.1       |
| 75  | 17.5 | 86.2          | 68.3         | 5.24        | 67.2 | 9.7       |
| 75  | 18.4 | 86.6          | 68.7         | 5.25        | 67.5 | 10.6      |
| 75  | 19.3 | 86.9          | 69.0         | 5.26        | 67.8 | 11.5      |
| 75  | 21.0 | 87.4          | 69.4         | 5.27        | 68.4 | 13.4      |
| 86  | 11.4 | 91.7          | 73.3         | 5.39        | 73.1 | 4.6       |
| 86  | 14.0 | 93.9          | 75.3         | 5.45        | 75.2 | 6.4       |
| 86  | 15.8 | 95.1          | 76.4         | 5.48        | 76.3 | 7.9       |
| 86  | 17.5 | 95.9          | 77.1         | 5.51        | 77.2 | 9.4       |
| 86  | 18.4 | 96.3          | 77.5         | 5.52        | 77.6 | 10.2      |
| 86  | 19.3 | 96.7          | 77.8         | 5.53        | 77.9 | 11.1      |
| 86  | 21.0 | 97.2          | 78.3         | 5.54        | 78.5 | 12.9      |

**Note:** Heating performance data is tabulated at 68.0°F DB at the ANSI/AHRI/ASHRAE/ISO13256-1 rated cfm. For conditions other than what is tabulated, multipliers must be used to correct performance. See performance correction tables for fan correction factors for CFM other than rated and the heating correction factors for variation in entering air temperatures. Rated GPM 17.5; Minimum CFM 1772; Rated CFM 2215; Maximum CFM 2658.

**Table 150. Fan correction factors 6 tons - DXVG070**

| Entering cfm | Cooling Capacity | Sensible Capacity | Cooling Input Watts | Heating Capacity | Heating Input Watts |
|--------------|------------------|-------------------|---------------------|------------------|---------------------|
| 1772         | 0.963            | 0.869             | 0.996               | 0.989            | 1.081               |
| 1883         | 0.974            | 0.901             | 0.997               | 0.993            | 1.057               |
| 1994         | 0.983            | 0.936             | 0.998               | 0.997            | 1.036               |
| 2104         | 0.991            | 0.968             | 0.999               | 1.000            | 1.017               |
| 2215         | 1.000            | 1.000             | 1.000               | 1.002            | 1.000               |
| 2437         | 1.018            | 1.062             | 1.002               | 1.007            | 0.971               |
| 2547         | 1.025            | 1.094             | 1.002               | 1.009            | 0.959               |
| 2658         | 1.032            | 1.127             | 1.003               | 1.011            | 0.948               |

**Table 151. Correction factors for variation in entering air temperature 6 tons, DXVG070**

| Cooling<br>Entering Air<br>WB°F | Cooling<br>capacity | Cooling<br>Input<br>Watts | Sensible vs. Entering Dry Bulb Multiplier |       |       |       |       | Heating<br>Entering Air<br>DB°F | Heating<br>capacity | Heating Input<br>Watts |
|---------------------------------|---------------------|---------------------------|---|-------|-------|-------|-------|---------------------------------|---------------------|------------------------|
|                                 |                     |                           | 65.0                                      | 70.0  | 75.0  | 80.0  | 85.0  |                                 |                     |                        |
| 49.4                            | 0.900               | 0.995                     | 0.913                                     | 0.980 | 1.029 | *     | *     | 53.0                            | 1.038               | 0.858                  |
| 56.3                            | 0.910               | 0.993                     | 0.804                                     | 0.948 | 1.048 | *     | *     | 58.0                            | 1.025               | 0.904                  |
| 60.3                            | 0.925               | 0.995                     | 0.652                                     | 0.855 | 1.002 | *     | *     | 63.0                            | 1.013               | 0.950                  |
| 63.2                            | 0.960               | 0.997                     | 0.499                                     | 0.747 | 0.932 | 1.070 | *     | 68.0                            | 1.000               | 1.000                  |
| 66.2                            | 1.000               | 1.000                     | —   | 0.601 | 0.828 | 1.000 | 1.134 | 73.0                            | 0.987               | 1.053                  |
| 72.1                            | 1.114               | 1.011                     | —   | —     | 0.539 | 0.782 | 0.974 | 78.0                            | 0.973               | 1.108                  |
| 77.1                            | 1.218               | 1.024                     | —   | —     | —     | —     | 0.774 | 83.0                            | 0.957               | 1.170                  |

**Note:** \* = Sensible equals total capacity



# Unit Fan Performance

**Table 152. Fan performance for standard ECM motor (includes wet coils and 1" filter)**

| Model Number | Max ESP (in. wc) | Fan Motor (hp) | Profile Setting | Cooling Mode | HGR Mode | Heating Mode | Fan Mode |
|--------------|------------------|----------------|-----------------|--------------|----------|--------------|----------|
| EXHF006      | 0.70             | 1/3            | A               | 237          | 190      | 237          | 190      |
| EXHF006      | 0.70             | 1/3            | B               | 215          | 172      | 215          | 172      |
| EXHF006      | 0.70             | 1/3            | C               | 194          | 155      | 194          | 155      |
| EXHF006      | 0.70             | 1/3            | D               | 172          | 138      | 172          | 138      |
| EXHF009      | 0.70             | 1/3            | A               | 314          | 251      | 314          | 251      |
| EXHF009      | 0.70             | 1/3            | B               | 285          | 228      | 285          | 228      |
| EXHF009      | 0.70             | 1/3            | C               | 257          | 206      | 257          | 206      |
| EXHF009      | 0.70             | 1/3            | D               | 228          | 182      | 228          | 182      |
| EXHF012      | 0.70             | 1/3            | A               | 418          | 334      | 418          | 334      |
| EXHF012      | 0.70             | 1/3            | B               | 380          | 304      | 380          | 304      |
| EXHF012      | 0.70             | 1/3            | C               | 342          | 274      | 342          | 274      |
| EXHF012      | 0.70             | 1/3            | D               | 304          | 243      | 304          | 243      |
| EXHF015      | 0.70             | 1/3            | A               | 523          | 418      | 523          | 418      |
| EXHF015      | 0.70             | 1/3            | B               | 475          | 380      | 475          | 380      |
| EXHF015      | 0.70             | 1/3            | C               | 428          | 342      | 428          | 342      |
| EXHF015      | 0.70             | 1/3            | D               | 380          | 304      | 380          | 304      |
| EXHF018      | 0.80             | 1/3            | A               | 627          | 502      | 627          | 314      |
| EXHF018      | 0.80             | 1/3            | B               | 570          | 456      | 570          | 285      |
| EXHF018      | 0.80             | 1/3            | C               | 513          | 410      | 513          | 257      |
| EXHF018      | 0.80             | 1/3            | D               | 456          | 365      | 456          | 228      |
| EXHF024      | 0.80             | 1/3            | A               | 836          | 669      | 836          | 418      |
| EXHF024      | 0.80             | 1/3            | B               | 760          | 608      | 760          | 380      |
| EXHF024      | 0.80             | 1/3            | C               | 684          | 547      | 684          | 342      |
| EXHF024      | 0.80             | 1/3            | D               | 608          | 486      | 608          | 304      |
| EXHF030      | 0.70             | 1/2            | A               | 1045         | 836      | 1045         | 523      |
| EXHF030      | 0.70             | 1/2            | B               | 950          | 760      | 950          | 475      |
| EXHF030      | 0.70             | 1/2            | C               | 855          | 684      | 855          | 428      |
| EXHF030      | 0.70             | 1/2            | D               | 760          | 608      | 760          | 380      |
| EXHF036      | 0.70             | 3/4            | A               | 1254         | 1003     | 1254         | 627      |
| EXHF036      | 0.70             | 3/4            | B               | 1140         | 912      | 1140         | 570      |
| EXHF036      | 0.70             | 3/4            | C               | 1026         | 821      | 1026         | 513      |
| EXHF036      | 0.70             | 3/4            | D               | 912          | 730      | 912          | 456      |
| EXHF042      | 0.70             | 3/4            | A               | 1463         | 1170     | 1463         | 732      |
| EXHF042      | 0.70             | 3/4            | B               | 1330         | 1064     | 1330         | 665      |
| EXHF042      | 0.70             | 3/4            | C               | 1197         | 958      | 1197         | 599      |
| EXHF042      | 0.70             | 3/4            | D               | 1064         | 851      | 1064         | 532      |
| EXHF048      | 0.70             | 3/4            | A               | 1672         | 1338     | 1672         | 836      |
| EXHF048      | 0.70             | 3/4            | B               | 1520         | 1216     | 1520         | 760      |
| EXHF048      | 0.70             | 3/4            | C               | 1368         | 1094     | 1368         | 684      |
| EXHF048      | 0.70             | 3/4            | D               | 1216         | 973      | 1216         | 608      |

**Table 152. Fan performance for standard ECM motor (includes wet coils and 1" filter) (continued)**

| Model Number | Max ESP (in. wc) | Fan Motor (hp) | Profile Setting | Cooling Mode | HGR Mode | Heating Mode | Fan Mode |
|--------------|------------------|----------------|-----------------|--------------|----------|--------------|----------|
| EXHF060      | 0.70             | 1              | A               | 1870         | 1496     | 1870         | 935      |
| EXHF060      | 0.70             | 1              | B               | 1700         | 1360     | 1700         | 850      |
| EXHF060      | 0.70             | 1              | C               | 1530         | 1224     | 1530         | 765      |
| EXHF060      | 0.70             | 1              | D               | 1360         | 1088     | 1360         | 680      |
| EXHF070      | 0.70             | 1              | A               | 2299         | 1839     | 2299         | 1150     |
| EXHF070      | 0.70             | 1              | B               | 2090         | 1672     | 2090         | 1045     |
| EXHF070      | 0.70             | 1              | C               | 1881         | 1505     | 1881         | 941      |
| EXHF070      | 0.70             | 1              | D               | 1672         | 1338     | 1672         | 836      |

**Notes:**

1. For HGR, the ECM motor will automatically reduce the speed when the unit is in dehumidification mode.
2. Airflow reduces to approximately 80% for the 006-015 units and 50% 018 to 070 units in fan only mode.
3. Fan profile settings are selected by the ECM motor control board DIP switch setting on units with Deluxe 24V or ZN524 controls.
4. Tracer® TU is used to adjust fan speed on units with UC400 controls.

**Table 153. Fan performance for standard ECM motor (includes wet coils and 1" filter)**

| Model Number | Max ESP (in. wc) | Fan Motor (hp) | Profile Setting | Full Load | Partial Load | Fan Mode |
|--------------|------------------|----------------|-----------------|-----------|--------------|----------|
| DXHF024      | 0.80             | 1/3            | A               | 836       | 669          | 418      |
| DXHF024      | 0.80             | 1/3            | B               | 760       | 608          | 380      |
| DXHF024      | 0.80             | 1/3            | C               | 684       | 547          | 342      |
| DXHF024      | 0.80             | 1/3            | D               | 608       | 486          | 304      |
| DXHF036      | 0.70             | 3/4            | A               | 1254      | 1003         | 627      |
| DXHF036      | 0.70             | 3/4            | B               | 1140      | 912          | 570      |
| DXHF036      | 0.70             | 3/4            | C               | 1026      | 821          | 513      |
| DXHF036      | 0.70             | 3/4            | D               | 912       | 730          | 456      |
| DXHF048      | 0.70             | 3/4            | A               | 1672      | 1338         | 836      |
| DXHF048      | 0.70             | 3/4            | B               | 1520      | 1216         | 760      |
| DXHF048      | 0.70             | 3/4            | C               | 1368      | 1094         | 684      |
| DXHF048      | 0.70             | 3/4            | D               | 1216      | 973          | 608      |
| DXHF060      | 0.70             | 1              | A               | 1870      | 1496         | 935      |
| DXHF060      | 0.70             | 1              | B               | 1700      | 1360         | 850      |
| DXHF060      | 0.70             | 1              | C               | 1530      | 1224         | 765      |
| DXHF060      | 0.70             | 1              | D               | 1360      | 1088         | 680      |
| DXHF070      | 0.70             | 1              | A               | 2299      | 1839         | 1150     |
| DXHF070      | 0.70             | 1              | B               | 2090      | 1672         | 1045     |
| DXHF070      | 0.70             | 1              | C               | 1881      | 1505         | 941      |
| DXHF070      | 0.70             | 1              | D               | 1672      | 1338         | 836      |

**Notes:**

1. Airflow reduces to approximately 50% in fan only mode.
2. Fan profile settings are selected by the ECM motor control board DIP switch setting on units with Deluxe 24V or ZN524 controls.
3. Tracer® TU is used to adjust fan speed on units with UC400 controls.



# Unit Fan Performance

Table 154. Unit fan performance EXH

| Model   | External Static Pressure |     |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |     |       |      |  |  |  |  |
|---------|--------------------------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|------|--|--|--|--|
| EXHF006 | Profile                  | CFM | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |      |  |  |  |  |
|         |                          |     | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM  |  |  |  |  |
|         | A                        | 237 | 0.016 | 471  | 0.021 | 542  | 0.025 | 609  | 0.030 | 674  | 0.034 | 735  | 0.039 | 794  | 0.043 | 850 | 0.048 | 902 | 0.053 | 952  |  |  |  |  |
|         | B                        | 215 | 0.011 | 427  | 0.015 | 497  | 0.020 | 565  | 0.024 | 630  | 0.029 | 691  | 0.033 | 750  | 0.038 | 805 | 0.042 | 858 | 0.046 | 907  |  |  |  |  |
|         | C                        | 194 | 0.008 | 406  | 0.012 | 476  | 0.016 | 544  | 0.020 | 608  | 0.025 | 670  | 0.029 | 729  | 0.033 | 784 | 0.037 | 837 | 0.042 | 886  |  |  |  |  |
|         | D                        | 172 | 0.006 | 381  | 0.010 | 452  | 0.014 | 519  | 0.018 | 584  | 0.022 | 645  | 0.026 | 704  | 0.030 | 760 | 0.034 | 812 | 0.038 | 862  |  |  |  |  |
| EXHF006 | Profile                  | CFM | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |      |  |  |  |  |
|         |                          |     | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM  |  |  |  |  |
|         | A                        | 237 | 0.057 | 998  | 0.062 | 1042 | 0.067 | 1082 | 0.071 | 1120 | 0.076 | 1154 | 0.081 | 1186 | —     | —   | —     | —   | —     | —    |  |  |  |  |
|         | B                        | 215 | 0.051 | 954  | 0.055 | 997  | 0.060 | 1038 | 0.064 | 1076 | 0.069 | 1110 | 0.073 | 1142 | —     | —   | —     | —   | —     | —    |  |  |  |  |
|         | C                        | 194 | 0.046 | 933  | 0.050 | 976  | 0.055 | 1017 | 0.059 | 1054 | 0.063 | 1089 | 0.068 | 1120 | —     | —   | —     | —   | —     | —    |  |  |  |  |
|         | D                        | 172 | 0.043 | 908  | 0.047 | 952  | 0.051 | 992  | 0.055 | 1030 | 0.059 | 1064 | 0.063 | 1096 | —     | —   | —     | —   | —     | —    |  |  |  |  |
| EXHF009 | Profile                  | CFM | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |      |  |  |  |  |
|         |                          |     | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM  |  |  |  |  |
|         | A                        | 314 | 0.038 | 686  | 0.042 | 731  | 0.045 | 775  | 0.049 | 817  | 0.053 | 859  | 0.058 | 899  | 0.063 | 938 | 0.067 | 975 | 0.072 | 1012 |  |  |  |  |
|         | B                        | 285 | 0.030 | 619  | 0.033 | 667  | 0.037 | 714  | 0.041 | 759  | 0.045 | 803  | 0.050 | 846  | 0.054 | 888 | 0.059 | 928 | 0.064 | 967  |  |  |  |  |
|         | C                        | 257 | 0.018 | 547  | 0.022 | 598  | 0.025 | 648  | 0.029 | 697  | 0.033 | 745  | 0.038 | 791  | 0.043 | 836 | 0.048 | 879 | 0.052 | 922  |  |  |  |  |
|         | D                        | 228 | 0.012 | 472  | 0.016 | 527  | 0.019 | 582  | 0.023 | 634  | 0.027 | 686  | 0.032 | 736  | 0.037 | 786 | 0.041 | 833 | 0.046 | 880  |  |  |  |  |
| EXHF009 | Profile                  | CFM | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |      |  |  |  |  |
|         |                          |     | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM  |  |  |  |  |
|         | A                        | 314 | 0.077 | 1047 | 0.082 | 1081 | 0.087 | 1114 | 0.092 | 1145 | 0.096 | 1175 | 0.100 | 1204 | —     | —   | —     | —   | —     | —    |  |  |  |  |
|         | B                        | 285 | 0.069 | 1005 | 0.074 | 1042 | 0.079 | 1077 | 0.083 | 1111 | 0.088 | 1144 | 0.092 | 1176 | —     | —   | —     | —   | —     | —    |  |  |  |  |
|         | C                        | 257 | 0.057 | 963  | 0.062 | 1003 | 0.067 | 1042 | 0.072 | 1080 | 0.076 | 1116 | 0.080 | 1151 | —     | —   | —     | —   | —     | —    |  |  |  |  |
|         | D                        | 228 | 0.051 | 926  | 0.056 | 970  | 0.061 | 1013 | 0.066 | 1054 | 0.070 | 1095 | 0.074 | 1134 | —     | —   | —     | —   | —     | —    |  |  |  |  |
| EXHF012 | Profile                  | CFM | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |      |  |  |  |  |
|         |                          |     | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM  |  |  |  |  |
|         | A                        | 418 | 0.021 | 468  | 0.028 | 543  | 0.035 | 612  | 0.042 | 678  | 0.049 | 739  | 0.057 | 796  | 0.065 | 849 | 0.073 | 898 | 0.080 | 944  |  |  |  |  |
|         | B                        | 380 | 0.017 | 428  | 0.022 | 506  | 0.029 | 578  | 0.035 | 646  | 0.042 | 709  | 0.050 | 768  | 0.057 | 823 | 0.064 | 875 | 0.072 | 922  |  |  |  |  |
|         | C                        | 342 | 0.014 | 401  | 0.019 | 481  | 0.025 | 555  | 0.031 | 625  | 0.037 | 690  | 0.044 | 750  | 0.050 | 807 | 0.057 | 859 | 0.064 | 907  |  |  |  |  |
|         | D                        | 304 | 0.013 | 378  | 0.017 | 459  | 0.022 | 535  | 0.027 | 605  | 0.032 | 671  | 0.038 | 732  | 0.044 | 788 | 0.051 | 840 | 0.057 | 888  |  |  |  |  |

Table 154. Unit fan performance EXH (continued)

| Model   | External Static Pressure |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |    |     |
|---------|--------------------------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----|-----|----|-----|
|         |                          |     | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      |       |      |     |     |    |     |
|         | Profile                  | CFM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | CFM   | kW   | RPM | CFM | kW | RPM |
| EXHF012 | A                        | 418 | 0.088 | 986  | 0.095 | 1026 | 0.102 | 1063 | 0.108 | 1096 | 0.114 | 1128 | 0.120 | 1157 | —     | —    | —     | —    |       |      |     |     |    |     |
|         | B                        | 380 | 0.079 | 966  | 0.086 | 1006 | 0.093 | 1044 | 0.099 | 1078 | 0.105 | 1110 | 0.111 | 1139 | —     | —    | —     | —    |       |      |     |     |    |     |
|         | C                        | 342 | 0.071 | 951  | 0.078 | 992  | 0.084 | 1029 | 0.090 | 1064 | 0.096 | 1095 | 0.102 | 1123 | —     | —    | —     | —    |       |      |     |     |    |     |
|         | D                        | 304 | 0.063 | 932  | 0.070 | 973  | 0.076 | 1009 | 0.082 | 1042 | 0.087 | 1072 | 0.092 | 1100 | —     | —    | —     | —    |       |      |     |     |    |     |
| EXHF015 |                          |     | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |     |     |    |     |
|         | Profile                  | CFM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | CFM   | kW   | RPM | CFM | kW | RPM |
|         | A                        | 523 | 0.044 | 615  | 0.050 | 666  | 0.057 | 716  | 0.064 | 763  | 0.072 | 809  | 0.079 | 853  | 0.088 | 896  | 0.096 | 937  | 0.105 | 978  |     |     |    |     |
|         | B                        | 475 | 0.035 | 568  | 0.041 | 623  | 0.048 | 677  | 0.055 | 728  | 0.062 | 777  | 0.070 | 824  | 0.078 | 870  | 0.085 | 913  | 0.094 | 955  |     |     |    |     |
| EXHF018 | C                        | 428 | 0.027 | 518  | 0.033 | 580  | 0.040 | 638  | 0.047 | 694  | 0.054 | 748  | 0.061 | 798  | 0.068 | 846  | 0.075 | 892  | 0.083 | 935  |     |     |    |     |
|         | D                        | 380 | 0.020 | 459  | 0.026 | 529  | 0.032 | 594  | 0.039 | 656  | 0.046 | 714  | 0.052 | 769  | 0.059 | 821  | 0.066 | 869  | 0.073 | 914  |     |     |    |     |
|         |                          |     | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      |       |      |     |     |    |     |
|         | Profile                  | CFM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | CFM   | kW   | RPM | CFM | kW | RPM |
| EXHF018 | A                        | 523 | 0.113 | 1017 | 0.122 | 1055 | 0.131 | 1093 | 0.140 | 1130 | 0.149 | 1166 | 0.157 | 1202 | —     | —    | —     | —    |       |      |     |     |    |     |
|         | B                        | 475 | 0.102 | 995  | 0.110 | 1033 | 0.118 | 1071 | 0.126 | 1107 | 0.134 | 1142 | 0.142 | 1176 | —     | —    | —     | —    |       |      |     |     |    |     |
|         | C                        | 428 | 0.090 | 976  | 0.098 | 1015 | 0.105 | 1052 | 0.112 | 1087 | 0.119 | 1120 | 0.125 | 1152 | —     | —    | —     | —    |       |      |     |     |    |     |
|         | D                        | 380 | 0.079 | 956  | 0.086 | 995  | 0.092 | 1032 | 0.098 | 1066 | 0.104 | 1097 | 0.109 | 1126 | —     | —    | —     | —    |       |      |     |     |    |     |
| EXHF018 |                          |     | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |     |     |    |     |
|         | Profile                  | CFM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | CFM   | kW   | RPM | CFM | kW | RPM |
|         | A                        | 627 | 0.065 | 583  | 0.074 | 629  | 0.083 | 671  | 0.092 | 710  | 0.101 | 746  | 0.109 | 779  | 0.117 | 810  | 0.124 | 839  | 0.132 | 867  |     |     |    |     |
|         | B                        | 570 | 0.052 | 543  | 0.060 | 590  | 0.069 | 634  | 0.076 | 675  | 0.084 | 712  | 0.091 | 747  | 0.098 | 780  | 0.105 | 811  | 0.112 | 840  |     |     |    |     |
| EXHF018 | C                        | 513 | 0.040 | 501  | 0.048 | 550  | 0.055 | 595  | 0.061 | 637  | 0.068 | 677  | 0.075 | 713  | 0.081 | 748  | 0.087 | 780  | 0.094 | 811  |     |     |    |     |
|         | D                        | 456 | 0.033 | 461  | 0.039 | 511  | 0.044 | 558  | 0.050 | 601  | 0.056 | 642  | 0.061 | 680  | 0.067 | 717  | 0.073 | 751  | 0.078 | 783  |     |     |    |     |
|         |                          |     | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      |       |      |     |     |    |     |
|         | Profile                  | CFM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | CFM   | kW   | RPM | CFM | kW | RPM |
| EXHF018 | A                        | 627 | 0.139 | 893  | 0.146 | 918  | 0.153 | 943  | 0.160 | 967  | 0.167 | 991  | 0.174 | 1015 | 0.181 | 1040 | 0.187 | 1066 | 0.195 | 1091 |     |     |    |     |
|         | B                        | 570 | 0.119 | 868  | 0.126 | 894  | 0.132 | 920  | 0.139 | 946  | 0.146 | 972  | 0.152 | 998  | 0.159 | 1025 | 0.166 | 1052 | 0.173 | 1078 |     |     |    |     |
|         | C                        | 513 | 0.100 | 840  | 0.106 | 869  | 0.112 | 897  | 0.119 | 925  | 0.125 | 952  | 0.132 | 980  | 0.138 | 1008 | 0.145 | 1038 | 0.152 | 1068 |     |     |    |     |
|         | D                        | 456 | 0.084 | 814  | 0.090 | 845  | 0.096 | 874  | 0.102 | 904  | 0.109 | 933  | 0.115 | 963  | 0.122 | 993  | 0.129 | 1024 | 0.136 | 1054 |     |     |    |     |



# Unit Fan Performance

Table 154. Unit fan performance EXH (continued)

| Model   | External Static Pressure |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |         |     |    |     |    |     |
|---------|--------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|---------|-----|----|-----|----|-----|
|         | 0.00                     |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |         |     |    |     |    |     |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | Profile | CFM | kW | RPM | kW | RPM |
| EXHF024 | A                        | 836  | 0.180 | 824  | 0.190 | 851  | 0.209 | 903  | 0.218 | 928  | 0.228 | 952  | 0.237 | 975  | 0.246 | 997  | 0.254 | 1019 |         |     |    |     |    |     |
|         | B                        | 760  | 0.136 | 756  | 0.145 | 787  | 0.164 | 846  | 0.174 | 874  | 0.183 | 901  | 0.192 | 927  | 0.201 | 953  | 0.209 | 977  |         |     |    |     |    |     |
|         | C                        | 684  | 0.096 | 683  | 0.106 | 718  | 0.124 | 784  | 0.132 | 815  | 0.141 | 845  | 0.150 | 874  | 0.158 | 902  | 0.166 | 929  |         |     |    |     |    |     |
|         | D                        | 608  | 0.072 | 620  | 0.080 | 658  | 0.097 | 730  | 0.104 | 764  | 0.112 | 796  | 0.120 | 827  | 0.128 | 856  | 0.135 | 885  |         |     |    |     |    |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |         |     |    |     |    |     |
| EXHF024 | A                        | 836  | 0.263 | 1041 | 0.272 | 1062 | 0.289 | 1103 | 0.297 | 1123 | 0.306 | 1143 | 0.314 | 1163 | 0.323 | 1184 |       |      |         |     |    |     |    |     |
|         | B                        | 760  | 0.218 | 1001 | 0.227 | 1025 | 0.244 | 1070 | 0.252 | 1092 | 0.261 | 1114 | 0.270 | 1135 | 0.278 | 1157 |       |      |         |     |    |     |    |     |
|         | C                        | 684  | 0.175 | 955  | 0.183 | 980  | 0.199 | 1029 | 0.208 | 1052 | 0.216 | 1075 | 0.224 | 1097 | 0.233 | 1119 |       |      |         |     |    |     |    |     |
|         | D                        | 608  | 0.143 | 912  | 0.150 | 938  | 0.165 | 988  | 0.173 | 1012 | 0.181 | 1035 | 0.188 | 1057 | 0.196 | 1078 |       |      |         |     |    |     |    |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |         |     |    |     |    |     |
| EXHF030 | A                        | 1045 | 0.186 | 694  | 0.203 | 723  | 0.219 | 752  | 0.235 | 779  | 0.251 | 805  | 0.266 | 830  | 0.282 | 854  | 0.297 | 877  |         |     |    |     |    |     |
|         | B                        | 950  | 0.138 | 634  | 0.153 | 666  | 0.169 | 697  | 0.184 | 727  | 0.199 | 756  | 0.214 | 784  | 0.229 | 810  | 0.243 | 836  |         |     |    |     |    |     |
|         | C                        | 855  | 0.105 | 583  | 0.118 | 618  | 0.132 | 651  | 0.146 | 683  | 0.159 | 714  | 0.173 | 744  | 0.186 | 772  | 0.200 | 799  |         |     |    |     |    |     |
|         | D                        | 760  | 0.084 | 538  | 0.095 | 575  | 0.107 | 609  | 0.118 | 643  | 0.129 | 675  | 0.141 | 706  | 0.152 | 736  | 0.164 | 764  |         |     |    |     |    |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |         |     |    |     |    |     |
| EXHF030 | A                        | 1045 | 0.326 | 920  | 0.340 | 941  | 0.353 | 961  | 0.367 | 980  | 0.380 | 999  | 0.392 | 1017 |       |      |       |      |         |     |    |     |    |     |
|         | B                        | 950  | 0.272 | 884  | 0.286 | 907  | 0.299 | 929  | 0.312 | 950  | 0.325 | 971  | 0.338 | 991  |       |      |       |      |         |     |    |     |    |     |
|         | C                        | 855  | 0.226 | 851  | 0.239 | 876  | 0.252 | 899  | 0.264 | 922  | 0.277 | 944  | 0.289 | 965  |       |      |       |      |         |     |    |     |    |     |
|         | D                        | 760  | 0.186 | 818  | 0.198 | 843  | 0.209 | 867  | 0.220 | 891  | 0.231 | 914  | 0.242 | 935  |       |      |       |      |         |     |    |     |    |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |         |     |    |     |    |     |
| EXHF036 | A                        | 1254 | 0.276 | 749  | 0.296 | 776  | 0.315 | 802  | 0.333 | 826  | 0.351 | 850  | 0.369 | 872  | 0.386 | 894  | 0.403 | 915  |         |     |    |     |    |     |
|         | B                        | 1140 | 0.200 | 679  | 0.218 | 708  | 0.235 | 736  | 0.252 | 762  | 0.269 | 787  | 0.285 | 812  | 0.301 | 835  | 0.317 | 858  |         |     |    |     |    |     |
|         | C                        | 1026 | 0.145 | 618  | 0.161 | 649  | 0.177 | 679  | 0.193 | 708  | 0.208 | 735  | 0.223 | 762  | 0.237 | 787  | 0.252 | 812  |         |     |    |     |    |     |
|         | D                        | 912  | 0.112 | 560  | 0.126 | 594  | 0.140 | 627  | 0.154 | 659  | 0.167 | 689  | 0.180 | 718  | 0.193 | 746  | 0.207 | 773  |         |     |    |     |    |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |         |     |    |     |    |     |



Table 154. Unit fan performance EXH (continued)

| Model   | External Static Pressure |      |       |     |       |     |       |     |       |      |       |      |       |      |       |     |       |     |       |     |  |  |  |  |
|---------|--------------------------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|--|--|--|--|
| EXHF036 |                          |      | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM |       |     |  |  |  |  |
|         | A                        | 1254 | 0.436 | 955 | 0.453 | 974 | 0.470 | 993 | 0.486 | 1012 | 0.503 | 1030 | 0.520 | 1049 | —     | —   | —     | —   |       |     |  |  |  |  |
|         | B                        | 1140 | 0.349 | 901 | 0.364 | 922 | 0.380 | 942 | 0.396 | 962  | 0.412 | 982  | 0.429 | 1002 | —     | —   | —     | —   |       |     |  |  |  |  |
|         | C                        | 1026 | 0.281 | 859 | 0.295 | 881 | 0.310 | 903 | 0.325 | 925  | 0.341 | 947  | 0.357 | 968  | —     | —   | —     | —   |       |     |  |  |  |  |
|         | D                        | 912  | 0.233 | 824 | 0.246 | 849 | 0.260 | 873 | 0.274 | 897  | 0.289 | 920  | 0.304 | 943  | —     | —   | —     | —   |       |     |  |  |  |  |
| EXHF042 |                          |      | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM |  |  |  |  |
|         | A                        | 1463 | 0.231 | 615 | 0.257 | 651 | 0.285 | 685 | 0.312 | 718  | 0.341 | 749  | 0.369 | 780  | 0.398 | 809 | 0.426 | 837 | 0.454 | 863 |  |  |  |  |
|         | B                        | 1330 | 0.179 | 565 | 0.203 | 603 | 0.227 | 640 | 0.251 | 675  | 0.276 | 708  | 0.301 | 739  | 0.326 | 770 | 0.350 | 798 | 0.374 | 825 |  |  |  |  |
|         | C                        | 1197 | 0.140 | 527 | 0.161 | 568 | 0.183 | 606 | 0.205 | 643  | 0.227 | 679  | 0.249 | 712  | 0.271 | 743 | 0.293 | 772 | 0.313 | 799 |  |  |  |  |
|         | D                        | 1064 | 0.107 | 487 | 0.127 | 531 | 0.147 | 573 | 0.168 | 613  | 0.188 | 650  | 0.208 | 685  | 0.228 | 717 | 0.247 | 747 | 0.265 | 774 |  |  |  |  |
| EXHF042 |                          |      | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM |       |     |  |  |  |  |
|         | A                        | 1463 | 0.482 | 889 | 0.509 | 913 | 0.535 | 937 | 0.560 | 959  | 0.583 | 980  | 0.606 | 1000 | —     | —   | —     | —   |       |     |  |  |  |  |
|         | B                        | 1330 | 0.398 | 851 | 0.420 | 875 | 0.442 | 898 | 0.462 | 919  | 0.481 | 939  | 0.499 | 957  | —     | —   | —     | —   |       |     |  |  |  |  |
|         | C                        | 1197 | 0.333 | 825 | 0.352 | 848 | 0.370 | 870 | 0.387 | 890  | 0.402 | 908  | 0.415 | 924  | —     | —   | —     | —   |       |     |  |  |  |  |
|         | D                        | 1064 | 0.282 | 799 | 0.299 | 822 | 0.313 | 842 | 0.327 | 860  | 0.339 | 876  | 0.348 | 889  | —     | —   | —     | —   |       |     |  |  |  |  |
| EXHF048 |                          |      | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM |  |  |  |  |
|         | A                        | 1672 | 0.275 | 618 | 0.313 | 657 | 0.351 | 695 | 0.388 | 730  | 0.424 | 764  | 0.459 | 796  | 0.493 | 826 | 0.526 | 854 | 0.558 | 881 |  |  |  |  |
|         | B                        | 1520 | 0.206 | 570 | 0.242 | 612 | 0.278 | 652 | 0.313 | 690  | 0.348 | 726  | 0.382 | 761  | 0.416 | 793 | 0.448 | 824 | 0.480 | 853 |  |  |  |  |
|         | C                        | 1368 | 0.157 | 530 | 0.189 | 574 | 0.222 | 616 | 0.254 | 656  | 0.286 | 694  | 0.317 | 730  | 0.348 | 764 | 0.378 | 796 | 0.408 | 826 |  |  |  |  |
|         | D                        | 1216 | 0.129 | 493 | 0.156 | 539 | 0.183 | 582 | 0.210 | 623  | 0.237 | 662  | 0.264 | 699  | 0.291 | 733 | 0.317 | 766 | 0.343 | 797 |  |  |  |  |
| EXHF048 |                          |      | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM |       |     |  |  |  |  |
|         | A                        | 1672 | 0.588 | 907 | 0.618 | 931 | 0.646 | 954 | 0.672 | 975  | 0.697 | 996  | 0.720 | 1015 | —     | —   | —     | —   |       |     |  |  |  |  |
|         | B                        | 1520 | 0.511 | 880 | 0.540 | 906 | 0.569 | 930 | 0.596 | 954  | 0.622 | 975  | 0.647 | 996  | —     | —   | —     | —   |       |     |  |  |  |  |
|         | C                        | 1368 | 0.437 | 854 | 0.465 | 881 | 0.492 | 907 | 0.519 | 930  | 0.544 | 953  | 0.568 | 974  | —     | —   | —     | —   |       |     |  |  |  |  |
|         | D                        | 1216 | 0.368 | 826 | 0.393 | 853 | 0.417 | 878 | 0.440 | 902  | 0.463 | 924  | 0.484 | 945  | —     | —   | —     | —   |       |     |  |  |  |  |



# Unit Fan Performance

Table 154. Unit fan performance EXH (continued)

| Model   | External Static Pressure |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |     |
|---------|--------------------------|------|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|
|         | Profile                  |      | 0.00  |     | 0.05  |     | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |     |
|         |                          |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |     |
| EXHF060 | CFM                      |      | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM |
|         | A                        | 1870 | 0.291 | 618 | 0.356 | 664 | 0.418 | 709  | 0.475 | 750  | 0.529 | 790  | 0.580 | 827  | 0.629 | 862 | 0.676 | 895 | 0.722 | 926 |
|         | B                        | 1700 | 0.239 | 583 | 0.299 | 629 | 0.353 | 673  | 0.403 | 716  | 0.450 | 755  | 0.492 | 793  | 0.533 | 829 | 0.570 | 862 | 0.606 | 893 |
|         | C                        | 1530 | 0.161 | 550 | 0.218 | 596 | 0.269 | 640  | 0.316 | 681  | 0.359 | 721  | 0.398 | 758  | 0.433 | 793 | 0.465 | 827 | 0.495 | 858 |
|         | D                        | 1360 | 0.064 | 523 | 0.123 | 567 | 0.176 | 609  | 0.224 | 649  | 0.267 | 688  | 0.305 | 724  | 0.340 | 758 | 0.371 | 790 | 0.400 | 820 |
| EXHF060 |                          |      | 0.45  |     | 0.50  |     | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |     |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM |
|         | A                        | 1870 | 0.766 | 954 | 0.810 | 981 | 0.855 | 1005 | 0.899 | 1028 | 0.945 | 1048 | 0.993 | 1067 | —     | —   | —     | —   | —     | —   |
|         | B                        | 1700 | 0.640 | 923 | 0.674 | 950 | 0.707 | 976  | 0.740 | 999  | 0.773 | 1021 | 0.808 | 1041 | —     | —   | —     | —   | —     | —   |
|         | C                        | 1530 | 0.523 | 887 | 0.550 | 915 | 0.576 | 940  | 0.601 | 964  | 0.626 | 986  | 0.652 | 1006 | —     | —   | —     | —   | —     | —   |
| EXHF070 | D                        | 1360 | 0.426 | 849 | 0.450 | 875 | 0.472 | 900  | 0.494 | 923  | 0.515 | 944  | 0.536 | 964  | —     | —   | —     | —   | —     | —   |
|         |                          |      | 0.00  |     | 0.05  |     | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |     | 0.35  |     | 0.40  |     |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM |
|         | A                        | 2299 | 0.797 | 855 | 0.817 | 866 | 0.838 | 877  | 0.859 | 889  | 0.881 | 902  | 0.903 | 916  | 0.926 | 931 | 0.948 | 946 | 0.969 | 963 |
|         | B                        | 2090 | 0.617 | 790 | 0.644 | 807 | 0.672 | 825  | 0.702 | 843  | 0.732 | 862  | 0.764 | 882  | 0.796 | 902 | 0.827 | 922 | 0.859 | 944 |
| EXHF070 | C                        | 1881 | 0.434 | 718 | 0.462 | 742 | 0.493 | 766  | 0.525 | 791  | 0.560 | 815  | 0.595 | 840  | 0.631 | 865 | 0.668 | 890 | 0.706 | 916 |
|         | D                        | 1672 | 0.317 | 640 | 0.337 | 670 | 0.360 | 700  | 0.385 | 729  | 0.412 | 759  | 0.442 | 788  | 0.473 | 817 | 0.505 | 845 | 0.538 | 874 |
|         |                          |      | 0.45  |     | 0.50  |     | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |     | 0.80  |     |       |     |
|         | Profile                  | CFM  | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM | kW    | RPM | kW    | RPM |
|         | A                        | 2299 | 0.990 | 980 | 1.009 | 999 | 1.027 | 1018 | 1.043 | 1038 | 1.058 | 1059 | 1.070 | 1081 | —     | —   | —     | —   | —     | —   |
| EXHF070 | B                        | 2090 | 0.891 | 965 | 0.921 | 988 | 0.951 | 1011 | 0.980 | 1034 | 1.007 | 1059 | 1.032 | 1083 | —     | —   | —     | —   | —     | —   |
|         | C                        | 1881 | 0.743 | 941 | 0.781 | 967 | 0.818 | 993  | 0.854 | 1020 | 0.890 | 1046 | 0.924 | 1073 | —     | —   | —     | —   | —     | —   |
|         | D                        | 1672 | 0.573 | 902 | 0.607 | 930 | 0.643 | 958  | 0.678 | 986  | 0.713 | 1013 | 0.747 | 1041 | —     | —   | —     | —   | —     | —   |

Table 155. Unit fan performance DXH

| Model   | External Static Pressure |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |    |     |     |
|---------|--------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----|----|-----|-----|
|         |                          |      | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |     |    |     |     |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | CFM | kW | RPM | CFM |
| DXHF024 | A                        | 836  | 0.180 | 824  | 0.190 | 851  | 0.200 | 878  | 0.209 | 903  | 0.218 | 928  | 0.228 | 952  | 0.237 | 975  | 0.246 | 997  | 0.254 | 1019 |     |    |     |     |
|         | B                        | 760  | 0.136 | 756  | 0.145 | 787  | 0.155 | 817  | 0.164 | 846  | 0.174 | 874  | 0.183 | 901  | 0.192 | 927  | 0.201 | 953  | 0.209 | 977  |     |    |     |     |
|         | C                        | 684  | 0.096 | 683  | 0.106 | 718  | 0.115 | 752  | 0.124 | 784  | 0.132 | 815  | 0.141 | 845  | 0.150 | 874  | 0.158 | 902  | 0.166 | 929  |     |    |     |     |
|         | D                        | 608  | 0.072 | 620  | 0.080 | 658  | 0.089 | 695  | 0.097 | 730  | 0.104 | 764  | 0.112 | 796  | 0.120 | 827  | 0.128 | 856  | 0.135 | 885  |     |    |     |     |
| DXHF024 |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |    |     |     |
|         | A                        | 836  | 0.263 | 1041 | 0.272 | 1062 | 0.280 | 1083 | 0.289 | 1103 | 0.297 | 1123 | 0.306 | 1143 | 0.314 | 1163 | 0.323 | 1184 |       |      |     |    |     |     |
|         | B                        | 760  | 0.218 | 1001 | 0.227 | 1025 | 0.235 | 1047 | 0.244 | 1070 | 0.252 | 1092 | 0.261 | 1114 | 0.270 | 1135 | 0.278 | 1157 |       |      |     |    |     |     |
|         | C                        | 684  | 0.175 | 955  | 0.183 | 980  | 0.191 | 1005 | 0.199 | 1029 | 0.208 | 1052 | 0.216 | 1075 | 0.224 | 1097 | 0.233 | 1119 |       |      |     |    |     |     |
| DXHF036 | D                        | 608  | 0.143 | 912  | 0.150 | 938  | 0.158 | 964  | 0.165 | 988  | 0.173 | 1012 | 0.181 | 1035 | 0.188 | 1057 | 0.196 | 1078 |       |      |     |    |     |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |    |     |     |
|         | A                        | 1254 | 0.276 | 749  | 0.296 | 776  | 0.315 | 802  | 0.333 | 826  | 0.351 | 850  | 0.369 | 872  | 0.386 | 894  | 0.403 | 915  | 0.420 | 935  |     |    |     |     |
|         | B                        | 1140 | 0.200 | 679  | 0.218 | 708  | 0.235 | 736  | 0.252 | 762  | 0.269 | 787  | 0.285 | 812  | 0.301 | 835  | 0.317 | 858  | 0.333 | 880  |     |    |     |     |
| DXHF036 | C                        | 1026 | 0.145 | 618  | 0.161 | 649  | 0.177 | 679  | 0.193 | 708  | 0.208 | 735  | 0.223 | 762  | 0.237 | 787  | 0.252 | 812  | 0.266 | 835  |     |    |     |     |
|         | D                        | 912  | 0.112 | 560  | 0.126 | 594  | 0.140 | 627  | 0.154 | 659  | 0.167 | 689  | 0.180 | 718  | 0.193 | 746  | 0.207 | 773  | 0.220 | 799  |     |    |     |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |    |     |     |
|         | A                        | 1254 | 0.436 | 955  | 0.453 | 974  | 0.470 | 993  | 0.486 | 1012 | 0.503 | 1030 | 0.520 | 1049 | —     | —    | —     | —    | —     | —    |     |    |     |     |
| DXHF048 | B                        | 1140 | 0.349 | 901  | 0.364 | 922  | 0.380 | 942  | 0.396 | 962  | 0.412 | 982  | 0.429 | 1002 | —     | —    | —     | —    | —     | —    |     |    |     |     |
|         | C                        | 1026 | 0.281 | 859  | 0.295 | 881  | 0.310 | 903  | 0.325 | 925  | 0.341 | 947  | 0.357 | 968  | —     | —    | —     | —    | —     | —    |     |    |     |     |
|         | D                        | 912  | 0.233 | 824  | 0.246 | 849  | 0.260 | 873  | 0.274 | 897  | 0.289 | 920  | 0.304 | 943  | —     | —    | —     | —    | —     | —    |     |    |     |     |
|         |                          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |    |     |     |
| DXHF048 | A                        | 1672 | 0.275 | 618  | 0.313 | 657  | 0.351 | 695  | 0.388 | 730  | 0.424 | 764  | 0.459 | 796  | 0.493 | 826  | 0.526 | 854  | 0.558 | 881  |     |    |     |     |
|         | B                        | 1520 | 0.206 | 570  | 0.242 | 612  | 0.278 | 652  | 0.313 | 690  | 0.348 | 726  | 0.382 | 761  | 0.416 | 793  | 0.448 | 824  | 0.480 | 853  |     |    |     |     |
|         | C                        | 1368 | 0.157 | 530  | 0.189 | 574  | 0.222 | 616  | 0.254 | 656  | 0.286 | 694  | 0.317 | 730  | 0.348 | 764  | 0.378 | 796  | 0.408 | 826  |     |    |     |     |
|         | D                        | 1216 | 0.129 | 493  | 0.156 | 539  | 0.183 | 582  | 0.210 | 623  | 0.237 | 662  | 0.264 | 699  | 0.291 | 733  | 0.317 | 766  | 0.343 | 797  |     |    |     |     |



# Unit Fan Performance

Table 155. Unit fan performance DXH (continued)

| Model   | External Static Pressure |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |  |  |  |  |
|---------|--------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|--|--|--|--|
| DXHF048 |                          | 0.45 |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       |      |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |     |  |  |  |  |
|         | A                        | 1672 | 0.588 | 907  | 0.618 | 931  | 0.646 | 954  | 0.672 | 975  | 0.697 | 996  | 0.720 | 1015 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | B                        | 1520 | 0.511 | 880  | 0.540 | 906  | 0.569 | 930  | 0.596 | 954  | 0.622 | 975  | 0.647 | 996  | —     | —    | —     | —    |       |     |  |  |  |  |
|         | C                        | 1368 | 0.437 | 854  | 0.465 | 881  | 0.492 | 907  | 0.519 | 930  | 0.544 | 953  | 0.568 | 974  | —     | —    | —     | —    |       |     |  |  |  |  |
|         | D                        | 1216 | 0.368 | 826  | 0.393 | 853  | 0.417 | 878  | 0.440 | 902  | 0.463 | 924  | 0.484 | 945  | —     | —    | —     | —    |       |     |  |  |  |  |
| DXHF060 |                          | 0.00 |       | 0.05 |       | 0.10 |       | 0.15 |       | 0.20 |       | 0.25 |       | 0.30 |       | 0.35 |       | 0.40 |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM |  |  |  |  |
|         | A                        | 1870 | 0.291 | 618  | 0.356 | 664  | 0.418 | 709  | 0.475 | 750  | 0.529 | 790  | 0.580 | 827  | 0.629 | 862  | 0.676 | 895  | 0.722 | 926 |  |  |  |  |
|         | B                        | 1700 | 0.239 | 583  | 0.299 | 629  | 0.353 | 673  | 0.403 | 716  | 0.450 | 755  | 0.492 | 793  | 0.533 | 829  | 0.570 | 862  | 0.606 | 893 |  |  |  |  |
|         | C                        | 1530 | 0.161 | 550  | 0.218 | 596  | 0.269 | 640  | 0.316 | 681  | 0.359 | 721  | 0.398 | 758  | 0.433 | 793  | 0.465 | 827  | 0.495 | 858 |  |  |  |  |
|         | D                        | 1360 | 0.064 | 523  | 0.123 | 567  | 0.176 | 609  | 0.224 | 649  | 0.267 | 688  | 0.305 | 724  | 0.340 | 758  | 0.371 | 790  | 0.400 | 820 |  |  |  |  |
| DXHF060 |                          | 0.45 |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       |      |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |     |  |  |  |  |
|         | A                        | 1870 | 0.766 | 954  | 0.810 | 981  | 0.855 | 1005 | 0.899 | 1028 | 0.945 | 1048 | 0.993 | 1067 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | B                        | 1700 | 0.640 | 923  | 0.674 | 950  | 0.707 | 976  | 0.740 | 999  | 0.773 | 1021 | 0.808 | 1041 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | C                        | 1530 | 0.523 | 887  | 0.550 | 915  | 0.576 | 940  | 0.601 | 964  | 0.626 | 986  | 0.652 | 1006 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | D                        | 1360 | 0.426 | 849  | 0.450 | 875  | 0.472 | 900  | 0.494 | 923  | 0.515 | 944  | 0.536 | 964  | —     | —    | —     | —    |       |     |  |  |  |  |
| DXHF070 |                          | 0.00 |       | 0.05 |       | 0.10 |       | 0.15 |       | 0.20 |       | 0.25 |       | 0.30 |       | 0.35 |       | 0.40 |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM |  |  |  |  |
|         | A                        | 2299 | 0.797 | 855  | 0.817 | 866  | 0.838 | 877  | 0.859 | 889  | 0.881 | 902  | 0.903 | 916  | 0.926 | 931  | 0.948 | 946  | 0.969 | 963 |  |  |  |  |
|         | B                        | 2090 | 0.617 | 790  | 0.644 | 807  | 0.672 | 825  | 0.702 | 843  | 0.732 | 862  | 0.764 | 882  | 0.796 | 902  | 0.827 | 922  | 0.859 | 944 |  |  |  |  |
|         | C                        | 1881 | 0.434 | 718  | 0.462 | 742  | 0.493 | 766  | 0.525 | 791  | 0.560 | 815  | 0.595 | 840  | 0.631 | 865  | 0.668 | 890  | 0.706 | 916 |  |  |  |  |
|         | D                        | 1672 | 0.317 | 640  | 0.337 | 670  | 0.360 | 700  | 0.385 | 729  | 0.412 | 759  | 0.442 | 788  | 0.473 | 817  | 0.505 | 845  | 0.538 | 874 |  |  |  |  |
| DXHF070 |                          | 0.45 |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       |      |       |     |  |  |  |  |
|         | Profile                  | CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |     |  |  |  |  |
|         | A                        | 2299 | 0.990 | 980  | 1.009 | 999  | 1.027 | 1018 | 1.043 | 1038 | 1.058 | 1059 | 1.070 | 1081 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | B                        | 2090 | 0.891 | 965  | 0.921 | 988  | 0.951 | 1011 | 0.980 | 1034 | 1.007 | 1059 | 1.032 | 1083 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | C                        | 1881 | 0.743 | 941  | 0.781 | 967  | 0.818 | 993  | 0.854 | 1020 | 0.890 | 1046 | 0.924 | 1073 | —     | —    | —     | —    |       |     |  |  |  |  |
|         | D                        | 1672 | 0.573 | 902  | 0.607 | 930  | 0.643 | 958  | 0.678 | 986  | 0.713 | 1013 | 0.747 | 1041 | —     | —    | —     | —    |       |     |  |  |  |  |

## ECM Control Board

### Horizontal - Units with Deluxe 24V or Tracer®ZN524 controls

For horizontal sizes EXHF006-070 and DXHF024-070, the ECM is programmed for constant CFM over a range of static pressures. The DIP switch on the ECM control board allows for a quick fan speed adjustment to optimize unit performance. The factory default setting is Profile B.

**Figure 12. ECM control board**



To adjust the cfm, set the DIP switch located in the control box to the desired profile setting.

Profile A = 110% of rated airflow

Profile B = 100% of rated airflow

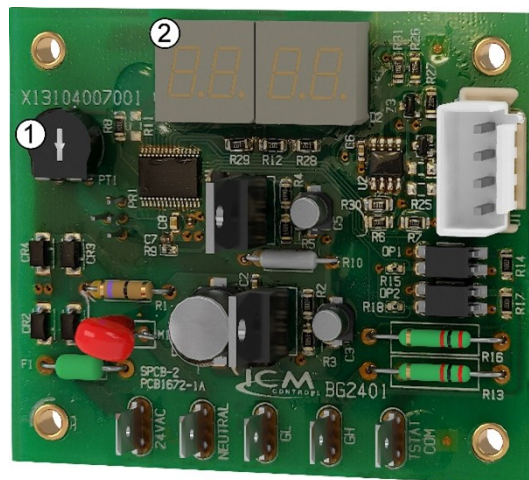
Profile C = 90% of rated airflow

Profile D = 80% of rated airflow

### Vertical - Units with Deluxe 24V or Tracer® ZN524 controls

For vertical sizes EXVG009-070 and DXVG024-070, the ECM is programmed for constant torque and delivers airflow similar to a PSC motor while operating at a higher efficiency.

**Figure 13. ECM control board**



1. Potentiometer will be used to adjust the PWM output
2. Seven segment display

Using a screwdriver, the potentiometer will be used to adjust the PWM output from 20% to 100% PWM. Increasing the PWM will increase the motor speed. When setting the airflow for air balancing, the high-



## Unit Fan Performance

speed terminal (GH) must have 24Vac signal. This will ensure that the PWM output will be adjusted for the full load airflow.

The display will show the commanded motor speed percentage. If running on low speed (GL), the low-speed value will be displayed. If running in GH the high-speed value will be displayed. If both GH and GL input signals are present, the PWM output value will be the GH value.

**Note:** ECM control board is only on units with Deluxe 24V and Tracer® ZN524 controls. Tracer® TU is used to adjust fan speed on units with UC400-B controls.

**Table 156. Unit fan performance EXVG009**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.014 | 340  | 0.015 | 408  | 0.017 | 473  | 0.020 | 534  | 0.022 | 592  | 0.026 | 647  | 0.029 | 698  | 0.033 | 747  | 0.038 | 793  |
| 200                      | 0.014 | 345  | 0.015 | 412  | 0.017 | 477  | 0.020 | 538  | 0.023 | 595  | 0.026 | 650  | 0.030 | 701  | 0.034 | 750  | 0.038 | 796  |
| 214                      | 0.014 | 351  | 0.016 | 419  | 0.018 | 483  | 0.020 | 543  | 0.023 | 600  | 0.027 | 654  | 0.031 | 706  | 0.035 | 754  | 0.040 | 800  |
| 228                      | 0.014 | 358  | 0.016 | 425  | 0.018 | 489  | 0.021 | 549  | 0.024 | 606  | 0.028 | 659  | 0.032 | 710  | 0.036 | 759  | 0.041 | 804  |
| 242                      | 0.014 | 366  | 0.016 | 432  | 0.018 | 495  | 0.021 | 555  | 0.025 | 611  | 0.029 | 665  | 0.033 | 715  | 0.038 | 763  | 0.043 | 809  |
| 257                      | 0.015 | 374  | 0.017 | 440  | 0.019 | 502  | 0.022 | 561  | 0.026 | 617  | 0.030 | 670  | 0.034 | 721  | 0.039 | 768  | 0.044 | 814  |
| 271                      | 0.015 | 382  | 0.017 | 447  | 0.020 | 509  | 0.023 | 568  | 0.027 | 623  | 0.031 | 676  | 0.036 | 726  | 0.041 | 773  | 0.046 | 818  |
| 285                      | 0.016 | 389  | 0.018 | 454  | 0.021 | 516  | 0.024 | 574  | 0.028 | 629  | 0.032 | 682  | 0.037 | 732  | 0.043 | 779  | 0.048 | 823  |
| 299                      | 0.016 | 398  | 0.019 | 462  | 0.022 | 523  | 0.025 | 581  | 0.029 | 636  | 0.034 | 688  | 0.039 | 737  | 0.044 | 784  | 0.050 | 828  |
| 314                      | 0.017 | 407  | 0.020 | 470  | 0.023 | 531  | 0.026 | 588  | 0.031 | 643  | 0.035 | 694  | 0.041 | 743  | 0.046 | 790  | 0.052 | 834  |
| 342                      | 0.019 | 424  | 0.022 | 486  | 0.025 | 546  | 0.029 | 602  | 0.034 | 656  | 0.039 | 707  | 0.044 | 756  | 0.050 | 802  | 0.057 | 845  |
|                          | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.042 | 837  | 0.047 | 878  | 0.051 | 917  | 0.056 | 954  | 0.061 | 988  | 0.065 | 1021 | 0.069 | 1052 | 0.073 | 1082 | 0.077 | 1110 |
| 200                      | 0.043 | 839  | 0.048 | 881  | 0.052 | 919  | 0.057 | 956  | 0.062 | 991  | 0.067 | 1023 | 0.071 | 1055 | 0.075 | 1084 | 0.079 | 1112 |
| 214                      | 0.045 | 843  | 0.049 | 884  | 0.054 | 923  | 0.060 | 960  | 0.065 | 994  | 0.069 | 1027 | 0.074 | 1058 | 0.079 | 1088 | 0.083 | 1116 |
| 228                      | 0.046 | 847  | 0.051 | 888  | 0.057 | 927  | 0.062 | 963  | 0.067 | 998  | 0.072 | 1031 | 0.077 | 1062 | 0.082 | 1092 | 0.087 | 1120 |
| 242                      | 0.048 | 852  | 0.053 | 892  | 0.059 | 931  | 0.064 | 967  | 0.070 | 1002 | 0.075 | 1035 | 0.080 | 1066 | 0.085 | 1096 | 0.090 | 1125 |
| 257                      | 0.050 | 856  | 0.056 | 897  | 0.061 | 935  | 0.067 | 972  | 0.073 | 1006 | 0.078 | 1039 | 0.084 | 1071 | 0.089 | 1101 | 0.094 | 1129 |
| 271                      | 0.052 | 861  | 0.058 | 901  | 0.064 | 940  | 0.070 | 976  | 0.076 | 1011 | 0.081 | 1044 | 0.087 | 1075 | 0.093 | 1105 | 0.098 | 1134 |
| 285                      | 0.054 | 866  | 0.060 | 906  | 0.066 | 944  | 0.072 | 980  | 0.078 | 1015 | 0.085 | 1048 | 0.091 | 1079 | 0.096 | 1110 | 0.102 | 1138 |
| 299                      | 0.056 | 871  | 0.062 | 911  | 0.069 | 949  | 0.075 | 985  | 0.081 | 1020 | 0.088 | 1052 | 0.094 | 1084 | 0.100 | 1114 | 0.106 | 1143 |
| 314                      | 0.058 | 876  | 0.065 | 916  | 0.071 | 954  | 0.078 | 990  | 0.085 | 1025 | 0.091 | 1057 | 0.098 | 1089 | 0.104 | 1119 | 0.110 | 1149 |
| 342                      | 0.063 | 887  | 0.070 | 926  | 0.077 | 964  | 0.084 | 1000 | 0.091 | 1034 | 0.098 | 1067 | 0.105 | 1099 | 0.112 | 1129 | 0.119 | 1159 |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 191                      | 0.081 | 1136 | 0.084 | 1162 | 0.086 | 1186 | 0.088 | 1210 | 0.090 | 1233 | 0.090 | 1255 | 0.090 | 1277 | 0.089 | 1298 | 0.088 | 1319 |
| 200                      | 0.083 | 1139 | 0.086 | 1165 | 0.089 | 1189 | 0.091 | 1213 | 0.093 | 1236 | 0.094 | 1258 | 0.094 | 1280 | 0.093 | 1302 | 0.092 | 1324 |
| 214                      | 0.087 | 1143 | 0.090 | 1169 | 0.093 | 1194 | 0.096 | 1218 | 0.098 | 1241 | 0.099 | 1264 | 0.099 | 1287 | 0.099 | 1309 | 0.098 | 1331 |
| 228                      | 0.091 | 1147 | 0.095 | 1174 | 0.098 | 1199 | 0.101 | 1223 | 0.103 | 1247 | 0.104 | 1270 | 0.105 | 1293 | 0.105 | 1315 | 0.104 | 1338 |
| 242                      | 0.095 | 1152 | 0.099 | 1178 | 0.102 | 1204 | 0.105 | 1228 | 0.108 | 1252 | 0.110 | 1276 | 0.111 | 1299 | 0.111 | 1322 | 0.111 | 1345 |
| 257                      | 0.099 | 1157 | 0.103 | 1183 | 0.107 | 1209 | 0.111 | 1234 | 0.114 | 1259 | 0.116 | 1283 | 0.117 | 1306 | 0.118 | 1330 | 0.118 | 1353 |
| 271                      | 0.103 | 1162 | 0.108 | 1188 | 0.112 | 1214 | 0.116 | 1240 | 0.119 | 1264 | 0.121 | 1289 | 0.123 | 1313 | 0.124 | 1337 | 0.125 | 1361 |
| 285                      | 0.107 | 1166 | 0.112 | 1193 | 0.117 | 1220 | 0.121 | 1245 | 0.124 | 1270 | 0.127 | 1295 | 0.129 | 1320 | 0.131 | 1344 | 0.131 | 1368 |
| 299                      | 0.112 | 1171 | 0.117 | 1199 | 0.122 | 1225 | 0.126 | 1251 | 0.130 | 1276 | 0.133 | 1301 | 0.135 | 1326 | 0.137 | 1351 | 0.138 | 1376 |

**Table 156. Unit fan performance EXVG009 (continued)**

| External Static Pressure |           |            |           |            |           |            |           |            |           |            |           |            |           |            |           |            |           |            |
|--------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 314                      | 0.116     | 1177       | 0.122     | 1204       | 0.127     | 1231       | 0.132     | 1257       | 0.136     | 1283       | –         | –          | –         | –          | –         | –          | –         | –          |
| 342                      | 0.125     | 1187       | 0.131     | 1215       | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          |
|                          | 1.35      |            | 1.40      |            | 1.45      |            | 1.50      |            | 1.55      |            | 1.60      |            | 1.65      |            | 1.70      |            | 1.75      |            |
| <b>CFM</b>               | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> |
| 191                      | 0.103     | 1361       | 0.100     | 1383       | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          |
| 200                      | 0.110     | 1368       | 0.107     | 1392       | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          |
| 214                      | 0.117     | 1377       | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          |
| 228                      | 0.124     | 1385       | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          |
| 242                      | 0.131     | 1393       | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          | –         | –          |

**Table 157. Unit fan performance EXVG012**

| External Static Pressure |           |            |           |            |           |            |           |            |           |            |           |            |           |            |           |            |           |            |
|--------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
|                          | 0.00      |            | 0.05      |            | 0.10      |            | 0.15      |            | 0.20      |            | 0.25      |            | 0.30      |            | 0.35      |            | 0.40      |            |
| <b>CFM</b>               | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> |
| 255                      | 0.015     | 373        | 0.017     | 439        | 0.019     | 501        | 0.022     | 560        | 0.026     | 616        | 0.030     | 670        | 0.034     | 720        | 0.039     | 768        | 0.044     | 813        |
| 266                      | 0.015     | 379        | 0.017     | 444        | 0.019     | 506        | 0.023     | 565        | 0.026     | 621        | 0.031     | 674        | 0.035     | 724        | 0.040     | 772        | 0.046     | 817        |
| 285                      | 0.016     | 389        | 0.018     | 454        | 0.021     | 516        | 0.024     | 574        | 0.028     | 629        | 0.032     | 682        | 0.037     | 732        | 0.043     | 779        | 0.048     | 823        |
| 304                      | 0.017     | 401        | 0.019     | 465        | 0.022     | 525        | 0.025     | 583        | 0.030     | 638        | 0.034     | 690        | 0.039     | 739        | 0.045     | 786        | 0.051     | 830        |
| 323                      | 0.018     | 412        | 0.020     | 475        | 0.023     | 536        | 0.027     | 593        | 0.032     | 647        | 0.036     | 698        | 0.042     | 747        | 0.048     | 794        | 0.054     | 838        |
| 342                      | 0.019     | 424        | 0.022     | 486        | 0.025     | 546        | 0.029     | 602        | 0.034     | 656        | 0.039     | 707        | 0.044     | 756        | 0.050     | 802        | 0.057     | 845        |
| 361                      | 0.021     | 436        | 0.024     | 498        | 0.027     | 557        | 0.031     | 613        | 0.036     | 666        | 0.041     | 716        | 0.047     | 764        | 0.053     | 810        | 0.060     | 853        |
| 380                      | 0.023     | 448        | 0.026     | 509        | 0.029     | 568        | 0.034     | 623        | 0.039     | 675        | 0.044     | 725        | 0.050     | 773        | 0.057     | 818        | 0.063     | 861        |
| 399                      | 0.025     | 461        | 0.028     | 521        | 0.032     | 579        | 0.036     | 634        | 0.041     | 686        | 0.047     | 735        | 0.053     | 782        | 0.060     | 827        | 0.067     | 869        |
| 418                      | 0.027     | 474        | 0.030     | 534        | 0.034     | 591        | 0.039     | 645        | 0.044     | 696        | 0.050     | 745        | 0.057     | 791        | 0.064     | 836        | 0.071     | 878        |
| 456                      | 0.032     | 501        | 0.036     | 559        | 0.040     | 615        | 0.045     | 667        | 0.051     | 717        | 0.057     | 765        | 0.064     | 811        | 0.072     | 854        | 0.079     | 896        |
|                          | 0.45      |            | 0.50      |            | 0.55      |            | 0.60      |            | 0.65      |            | 0.70      |            | 0.75      |            | 0.80      |            | 0.85      |            |
| <b>CFM</b>               | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> |
| 255                      | 0.050     | 856        | 0.055     | 896        | 0.061     | 935        | 0.067     | 971        | 0.072     | 1006       | 0.078     | 1039       | 0.083     | 1070       | 0.089     | 1100       | 0.094     | 1129       |
| 266                      | 0.051     | 859        | 0.057     | 900        | 0.063     | 938        | 0.069     | 974        | 0.075     | 1009       | 0.080     | 1042       | 0.086     | 1073       | 0.092     | 1103       | 0.097     | 1132       |
| 285                      | 0.054     | 866        | 0.060     | 906        | 0.066     | 944        | 0.072     | 980        | 0.078     | 1015       | 0.085     | 1048       | 0.091     | 1079       | 0.096     | 1110       | 0.102     | 1138       |
| 304                      | 0.057     | 872        | 0.063     | 912        | 0.070     | 950        | 0.076     | 987        | 0.083     | 1021       | 0.089     | 1054       | 0.095     | 1086       | 0.102     | 1116       | 0.108     | 1145       |
| 323                      | 0.060     | 879        | 0.067     | 919        | 0.073     | 957        | 0.080     | 993        | 0.087     | 1028       | 0.094     | 1061       | 0.100     | 1092       | 0.107     | 1123       | 0.113     | 1152       |
| 342                      | 0.063     | 887        | 0.070     | 926        | 0.077     | 964        | 0.084     | 1000       | 0.091     | 1034       | 0.098     | 1067       | 0.105     | 1099       | 0.112     | 1129       | 0.119     | 1159       |
| 361                      | 0.067     | 894        | 0.074     | 934        | 0.081     | 971        | 0.089     | 1007       | 0.096     | 1041       | 0.103     | 1074       | 0.111     | 1106       | 0.118     | 1136       | 0.125     | 1166       |
| 380                      | 0.071     | 902        | 0.078     | 941        | 0.085     | 978        | 0.093     | 1014       | 0.101     | 1048       | 0.109     | 1081       | 0.116     | 1113       | 0.124     | 1144       | 0.131     | 1173       |
| 399                      | 0.074     | 910        | 0.082     | 949        | 0.090     | 986        | 0.098     | 1022       | 0.106     | 1056       | 0.114     | 1089       | 0.122     | 1120       | 0.130     | 1151       | 0.137     | 1181       |
| 418                      | 0.079     | 918        | 0.086     | 957        | 0.094     | 994        | 0.103     | 1029       | 0.111     | 1063       | 0.119     | 1096       | 0.128     | 1128       | 0.136     | 1158       | 0.144     | 1188       |
| 456                      | 0.087     | 935        | 0.096     | 973        | 0.104     | 1010       | 0.113     | 1045       | 0.122     | 1079       | 0.131     | 1111       | 0.140     | 1143       | 0.149     | 1174       | 0.157     | 1204       |
|                          | 0.90      |            | 0.95      |            | 1.00      |            | 1.05      |            | 1.10      |            | 1.15      |            | 1.20      |            | 1.25      |            | 1.30      |            |
| <b>CFM</b>               | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> | <b>kW</b> | <b>RPM</b> |
| 255                      | 0.098     | 1156       | 0.103     | 1183       | 0.107     | 1208       | 0.110     | 1233       | 0.113     | 1258       | 0.115     | 1282       | 0.116     | 1305       | 0.117     | 1329       | 0.117     | 1352       |
| 266                      | 0.102     | 1160       | 0.106     | 1187       | 0.110     | 1212       | 0.114     | 1238       | 0.117     | 1262       | 0.119     | 1286       | 0.121     | 1310       | 0.122     | 1334       | 0.122     | 1358       |
| 285                      | 0.107     | 1166       | 0.112     | 1193       | 0.117     | 1220       | 0.121     | 1245       | 0.124     | 1270       | 0.127     | 1295       | 0.129     | 1320       | 0.131     | 1344       | 0.131     | 1368       |



## Unit Fan Performance

**Table 157. Unit fan performance EXVG012 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 304                      | 0.113 | 1173 | 0.119 | 1200 | 0.123 | 1227 | 0.128 | 1253 | 0.132 | 1278 | 0.135 | 1304 | 0.137 | 1329 | 0.139 | 1354 | 0.140 | 1379 |
| 323                      | 0.119 | 1180 | 0.125 | 1208 | 0.130 | 1234 | 0.135 | 1261 | 0.139 | 1287 | 0.143 | 1313 | 0.146 | 1338 | 0.148 | 1364 | 0.150 | 1390 |
| 342                      | 0.125 | 1187 | 0.131 | 1215 | 0.137 | 1242 | 0.142 | 1269 | 0.147 | 1295 | 0.151 | 1322 | 0.154 | 1348 | 0.157 | 1374 | 0.159 | 1400 |
| 361                      | 0.132 | 1195 | 0.138 | 1223 | 0.144 | 1250 | 0.150 | 1277 | 0.155 | 1304 | 0.159 | 1331 | 0.163 | 1357 | 0.166 | 1384 | —     | —    |
| 380                      | 0.138 | 1202 | 0.145 | 1230 | 0.151 | 1258 | 0.157 | 1286 | 0.163 | 1313 | 0.167 | 1340 | 0.172 | 1367 | 0.175 | 1395 | —     | —    |
| 399                      | 0.145 | 1210 | 0.152 | 1238 | 0.159 | 1266 | 0.165 | 1294 | 0.171 | 1322 | 0.176 | 1349 | 0.181 | 1377 | —     | —    | —     | —    |
| 418                      | 0.152 | 1218 | 0.159 | 1246 | 0.166 | 1275 | 0.173 | 1303 | 0.179 | 1331 | 0.185 | 1359 | —     | —    | —     | —    | —     | —    |
| 456                      | 0.166 | 1234 | 0.174 | 1263 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 158. Unit fan performance EXVG015**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 255                      | 0.015 | 373  | 0.017 | 439  | 0.019 | 501  | 0.022 | 560  | 0.026 | 616  | 0.030 | 670  | 0.034 | 720  | 0.039 | 768  | 0.044 | 813  |
| 266                      | 0.015 | 379  | 0.017 | 444  | 0.019 | 506  | 0.023 | 565  | 0.026 | 621  | 0.031 | 674  | 0.035 | 724  | 0.040 | 772  | 0.046 | 817  |
| 285                      | 0.016 | 389  | 0.018 | 454  | 0.021 | 516  | 0.024 | 574  | 0.028 | 629  | 0.032 | 682  | 0.037 | 732  | 0.043 | 779  | 0.048 | 823  |
| 304                      | 0.017 | 401  | 0.019 | 465  | 0.022 | 525  | 0.025 | 583  | 0.030 | 638  | 0.034 | 690  | 0.039 | 739  | 0.045 | 786  | 0.051 | 830  |
| 323                      | 0.018 | 412  | 0.020 | 475  | 0.023 | 536  | 0.027 | 593  | 0.032 | 647  | 0.036 | 698  | 0.042 | 747  | 0.048 | 794  | 0.054 | 838  |
| 342                      | 0.019 | 424  | 0.022 | 486  | 0.025 | 546  | 0.029 | 602  | 0.034 | 656  | 0.039 | 707  | 0.044 | 756  | 0.050 | 802  | 0.057 | 845  |
| 361                      | 0.021 | 436  | 0.024 | 498  | 0.027 | 557  | 0.031 | 613  | 0.036 | 666  | 0.041 | 716  | 0.047 | 764  | 0.053 | 810  | 0.060 | 853  |
| 380                      | 0.023 | 448  | 0.026 | 509  | 0.029 | 568  | 0.034 | 623  | 0.039 | 675  | 0.044 | 725  | 0.050 | 773  | 0.057 | 818  | 0.063 | 861  |
| 399                      | 0.025 | 461  | 0.028 | 521  | 0.032 | 579  | 0.036 | 634  | 0.041 | 686  | 0.047 | 735  | 0.053 | 782  | 0.060 | 827  | 0.067 | 869  |
| 418                      | 0.027 | 474  | 0.030 | 534  | 0.034 | 591  | 0.039 | 645  | 0.044 | 696  | 0.050 | 745  | 0.057 | 791  | 0.064 | 836  | 0.071 | 878  |
| 456                      | 0.032 | 501  | 0.036 | 559  | 0.040 | 615  | 0.045 | 667  | 0.051 | 717  | 0.057 | 765  | 0.064 | 811  | 0.072 | 854  | 0.079 | 896  |
|                          | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 255                      | 0.050 | 856  | 0.055 | 896  | 0.061 | 935  | 0.067 | 971  | 0.072 | 1006 | 0.078 | 1039 | 0.083 | 1070 | 0.089 | 1100 | 0.094 | 1129 |
| 266                      | 0.051 | 859  | 0.057 | 900  | 0.063 | 938  | 0.069 | 974  | 0.075 | 1009 | 0.080 | 1042 | 0.086 | 1073 | 0.092 | 1103 | 0.097 | 1132 |
| 285                      | 0.054 | 866  | 0.060 | 906  | 0.066 | 944  | 0.072 | 980  | 0.078 | 1015 | 0.085 | 1048 | 0.091 | 1079 | 0.096 | 1110 | 0.102 | 1138 |
| 304                      | 0.057 | 872  | 0.063 | 912  | 0.070 | 950  | 0.076 | 987  | 0.083 | 1021 | 0.089 | 1054 | 0.095 | 1086 | 0.102 | 1116 | 0.108 | 1145 |
| 323                      | 0.060 | 879  | 0.067 | 919  | 0.073 | 957  | 0.080 | 993  | 0.087 | 1028 | 0.094 | 1061 | 0.100 | 1092 | 0.107 | 1123 | 0.113 | 1152 |
| 342                      | 0.063 | 887  | 0.070 | 926  | 0.077 | 964  | 0.084 | 1000 | 0.091 | 1034 | 0.098 | 1067 | 0.105 | 1099 | 0.112 | 1129 | 0.119 | 1159 |
| 361                      | 0.067 | 894  | 0.074 | 934  | 0.081 | 971  | 0.089 | 1007 | 0.096 | 1041 | 0.103 | 1074 | 0.111 | 1106 | 0.118 | 1136 | 0.125 | 1166 |
| 380                      | 0.071 | 902  | 0.078 | 941  | 0.085 | 978  | 0.093 | 1014 | 0.101 | 1048 | 0.109 | 1081 | 0.116 | 1113 | 0.124 | 1144 | 0.131 | 1173 |
| 399                      | 0.074 | 910  | 0.082 | 949  | 0.090 | 986  | 0.098 | 1022 | 0.106 | 1056 | 0.114 | 1089 | 0.122 | 1120 | 0.130 | 1151 | 0.137 | 1181 |
| 418                      | 0.079 | 918  | 0.086 | 957  | 0.094 | 994  | 0.103 | 1029 | 0.111 | 1063 | 0.119 | 1096 | 0.128 | 1128 | 0.136 | 1158 | 0.144 | 1188 |
| 456                      | 0.087 | 935  | 0.096 | 973  | 0.104 | 1010 | 0.113 | 1045 | 0.122 | 1079 | 0.131 | 1111 | 0.140 | 1143 | 0.149 | 1174 | 0.157 | 1204 |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 255                      | 0.098 | 1156 | 0.103 | 1183 | 0.107 | 1208 | 0.110 | 1233 | 0.113 | 1258 | 0.115 | 1282 | 0.116 | 1305 | 0.117 | 1329 | 0.117 | 1352 |
| 266                      | 0.102 | 1160 | 0.106 | 1187 | 0.110 | 1212 | 0.114 | 1238 | 0.117 | 1262 | 0.119 | 1286 | 0.121 | 1310 | 0.122 | 1334 | 0.122 | 1358 |
| 285                      | 0.107 | 1166 | 0.112 | 1193 | 0.117 | 1220 | 0.121 | 1245 | 0.124 | 1270 | 0.127 | 1295 | 0.129 | 1320 | 0.131 | 1344 | 0.131 | 1368 |
| 304                      | 0.113 | 1173 | 0.119 | 1200 | 0.123 | 1227 | 0.128 | 1253 | 0.132 | 1278 | 0.135 | 1304 | 0.137 | 1329 | 0.139 | 1354 | 0.140 | 1379 |



**Table 158. Unit fan performance EXVG015 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 323                      | 0.119 | 1180 | 0.125 | 1208 | 0.130 | 1234 | 0.135 | 1261 | 0.139 | 1287 | 0.143 | 1313 | 0.146 | 1338 | 0.148 | 1364 | 0.150 | 1390 |
| 342                      | 0.125 | 1187 | 0.131 | 1215 | 0.137 | 1242 | 0.142 | 1269 | 0.147 | 1295 | 0.151 | 1322 | 0.154 | 1348 | 0.157 | 1374 | 0.159 | 1400 |
| 361                      | 0.132 | 1195 | 0.138 | 1223 | 0.144 | 1250 | 0.150 | 1277 | 0.155 | 1304 | 0.159 | 1331 | 0.163 | 1357 | 0.166 | 1384 | —     | —    |
| 380                      | 0.138 | 1202 | 0.145 | 1230 | 0.151 | 1258 | 0.157 | 1286 | 0.163 | 1313 | 0.167 | 1340 | 0.172 | 1367 | 0.175 | 1395 | —     | —    |
| 399                      | 0.145 | 1210 | 0.152 | 1238 | 0.159 | 1266 | 0.165 | 1294 | 0.171 | 1322 | 0.176 | 1349 | 0.181 | 1377 | —     | —    | —     | —    |
| 418                      | 0.152 | 1218 | 0.159 | 1246 | 0.166 | 1275 | 0.173 | 1303 | 0.179 | 1331 | 0.185 | 1359 | —     | —    | —     | —    | —     | —    |
| 456                      | 0.166 | 1234 | 0.174 | 1263 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    |

**Table 159. Unit fan performance EXVG018**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.012 | 353  | 0.018 | 407  | 0.023 | 459  | 0.029 | 509  | 0.035 | 557  | 0.041 | 602  | 0.047 | 646  | 0.053 | 688  | 0.060 | 728  |
| 399                      | 0.014 | 359  | 0.019 | 413  | 0.024 | 465  | 0.030 | 515  | 0.036 | 562  | 0.042 | 608  | 0.049 | 651  | 0.056 | 693  | 0.062 | 732  |
| 428                      | 0.016 | 370  | 0.021 | 424  | 0.027 | 475  | 0.033 | 525  | 0.039 | 572  | 0.046 | 617  | 0.052 | 660  | 0.059 | 701  | 0.066 | 740  |
| 456                      | 0.018 | 381  | 0.024 | 434  | 0.030 | 485  | 0.036 | 534  | 0.042 | 581  | 0.049 | 625  | 0.056 | 668  | 0.063 | 709  | 0.071 | 748  |
| 485                      | 0.020 | 393  | 0.026 | 445  | 0.032 | 496  | 0.039 | 544  | 0.046 | 590  | 0.053 | 634  | 0.060 | 677  | 0.067 | 717  | 0.075 | 756  |
| 513                      | 0.023 | 404  | 0.029 | 456  | 0.036 | 506  | 0.042 | 554  | 0.049 | 599  | 0.057 | 643  | 0.064 | 685  | 0.072 | 725  | 0.080 | 764  |
| 542                      | 0.026 | 415  | 0.032 | 467  | 0.039 | 516  | 0.046 | 564  | 0.053 | 609  | 0.061 | 652  | 0.069 | 694  | 0.077 | 734  | 0.085 | 772  |
| 570                      | 0.029 | 427  | 0.036 | 478  | 0.043 | 527  | 0.050 | 574  | 0.057 | 618  | 0.065 | 661  | 0.073 | 703  | 0.081 | 742  | 0.090 | 780  |
| 599                      | 0.033 | 438  | 0.039 | 489  | 0.046 | 537  | 0.054 | 584  | 0.062 | 628  | 0.070 | 671  | 0.078 | 712  | 0.087 | 751  | 0.095 | 788  |
| 627                      | 0.036 | 450  | 0.043 | 500  | 0.051 | 548  | 0.058 | 594  | 0.066 | 638  | 0.075 | 680  | 0.083 | 720  | 0.092 | 759  | 0.101 | 796  |
| 684                      | 0.045 | 473  | 0.052 | 522  | 0.060 | 569  | 0.068 | 614  | 0.076 | 657  | 0.085 | 699  | 0.094 | 738  | 0.104 | 776  | 0.114 | 813  |
|                          | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.067 | 766  | 0.074 | 802  | 0.081 | 837  | 0.088 | 870  | 0.095 | 902  | 0.102 | 932  | 0.110 | 962  | 0.117 | 989  | 0.124 | 1016 |
| 399                      | 0.069 | 770  | 0.076 | 806  | 0.083 | 841  | 0.091 | 874  | 0.098 | 906  | 0.106 | 936  | 0.113 | 965  | 0.121 | 993  | 0.128 | 1020 |
| 428                      | 0.074 | 778  | 0.081 | 814  | 0.089 | 848  | 0.096 | 881  | 0.104 | 913  | 0.112 | 943  | 0.120 | 972  | 0.128 | 1000 | 0.136 | 1027 |
| 456                      | 0.078 | 785  | 0.086 | 821  | 0.094 | 855  | 0.102 | 888  | 0.110 | 920  | 0.118 | 950  | 0.126 | 979  | 0.135 | 1006 | 0.143 | 1033 |
| 485                      | 0.083 | 793  | 0.091 | 829  | 0.099 | 863  | 0.107 | 895  | 0.116 | 927  | 0.125 | 957  | 0.133 | 985  | 0.142 | 1013 | 0.151 | 1040 |
| 513                      | 0.088 | 801  | 0.096 | 836  | 0.105 | 870  | 0.113 | 902  | 0.122 | 933  | 0.131 | 963  | 0.140 | 992  | 0.149 | 1019 | 0.159 | 1046 |
| 542                      | 0.093 | 809  | 0.102 | 844  | 0.111 | 877  | 0.120 | 909  | 0.129 | 940  | 0.138 | 970  | 0.148 | 999  | 0.157 | 1026 | 0.167 | 1053 |
| 570                      | 0.099 | 816  | 0.108 | 851  | 0.117 | 884  | 0.126 | 916  | 0.136 | 947  | 0.145 | 977  | 0.155 | 1005 | 0.165 | 1032 | 0.175 | 1059 |
| 599                      | 0.105 | 824  | 0.114 | 859  | 0.123 | 892  | 0.133 | 924  | 0.143 | 954  | 0.153 | 983  | 0.163 | 1012 | 0.173 | 1039 | 0.184 | 1066 |
| 627                      | 0.111 | 832  | 0.120 | 866  | 0.130 | 899  | 0.140 | 931  | 0.150 | 961  | 0.161 | 990  | 0.171 | 1018 | 0.182 | 1046 | 0.193 | 1072 |
| 684                      | 0.124 | 848  | 0.134 | 881  | 0.144 | 914  | 0.155 | 945  | 0.166 | 975  | 0.177 | 1004 | 0.188 | 1032 | 0.200 | 1059 | 0.211 | 1085 |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.132 | 1042 | 0.139 | 1067 | 0.147 | 1091 | 0.154 | 1114 | 0.161 | 1136 | 0.169 | 1158 | 0.176 | 1179 | 0.183 | 1199 | 0.190 | 1219 |
| 399                      | 0.136 | 1046 | 0.144 | 1071 | 0.152 | 1095 | 0.159 | 1118 | 0.167 | 1140 | 0.175 | 1162 | 0.182 | 1183 | 0.190 | 1204 | 0.197 | 1224 |
| 428                      | 0.144 | 1052 | 0.152 | 1077 | 0.160 | 1101 | 0.168 | 1124 | 0.176 | 1147 | 0.185 | 1169 | 0.193 | 1190 | 0.201 | 1211 | 0.208 | 1232 |
| 456                      | 0.152 | 1059 | 0.160 | 1084 | 0.169 | 1108 | 0.177 | 1131 | 0.186 | 1153 | 0.194 | 1175 | 0.203 | 1197 | 0.211 | 1218 | 0.220 | 1239 |
| 485                      | 0.160 | 1065 | 0.169 | 1090 | 0.178 | 1114 | 0.187 | 1138 | 0.196 | 1160 | 0.205 | 1182 | 0.214 | 1204 | 0.223 | 1225 | 0.232 | 1246 |



## Unit Fan Performance

**Table 159. Unit fan performance EXVG018 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 513                      | 0.168 | 1072 | 0.177 | 1097 | 0.187 | 1121 | 0.196 | 1144 | 0.206 | 1167 | 0.215 | 1189 | 0.225 | 1211 | 0.234 | 1232 | 0.243 | 1253 |
| 542                      | 0.177 | 1078 | 0.186 | 1103 | 0.196 | 1127 | 0.206 | 1151 | 0.216 | 1174 | 0.226 | 1196 | 0.236 | 1218 | 0.246 | 1240 | 0.256 | 1261 |
| 570                      | 0.185 | 1085 | 0.195 | 1109 | 0.206 | 1134 | 0.216 | 1157 | 0.226 | 1180 | 0.237 | 1203 | 0.247 | 1225 | 0.258 | 1246 | 0.268 | 1268 |
| 599                      | 0.194 | 1091 | 0.205 | 1116 | 0.216 | 1140 | 0.227 | 1164 | 0.237 | 1187 | 0.248 | 1209 | 0.259 | 1232 | 0.270 | 1254 | 0.281 | 1275 |
| 627                      | 0.204 | 1097 | 0.215 | 1122 | 0.226 | 1146 | 0.237 | 1170 | 0.248 | 1193 | 0.260 | 1216 | 0.271 | 1238 | 0.282 | 1260 | 0.294 | 1282 |
| 684                      | 0.223 | 1110 | 0.235 | 1135 | 0.247 | 1159 | 0.259 | 1183 | 0.271 | 1206 | 0.284 | 1229 | -     | -    | -     | -    | -     | -    |
| 1.35                     |       | 1.40 |       | 1.45 |       | 1.50 |       | 1.55 |       | 1.60 |       | 1.65 |       | 1.70 |       | 1.75 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 382                      | 0.197 | 1239 | 0.204 | 1259 | 0.211 | 1278 | 0.218 | 1297 | 0.224 | 1317 | 0.231 | 1336 | 0.237 | 1355 | 0.243 | 1375 | 0.248 | 1395 |
| 399                      | 0.204 | 1244 | 0.212 | 1264 | 0.219 | 1283 | 0.226 | 1303 | 0.233 | 1322 | 0.239 | 1342 | 0.246 | 1361 | 0.252 | 1381 | -     | -    |
| 428                      | 0.216 | 1252 | 0.224 | 1272 | 0.232 | 1292 | 0.239 | 1311 | 0.247 | 1331 | 0.254 | 1351 | 0.261 | 1371 | 0.268 | 1392 | -     | -    |
| 456                      | 0.228 | 1259 | 0.236 | 1280 | 0.245 | 1300 | 0.253 | 1320 | 0.261 | 1340 | 0.268 | 1360 | 0.276 | 1381 | -     | -    | -     | -    |
| 485                      | 0.241 | 1267 | 0.249 | 1288 | 0.258 | 1308 | 0.267 | 1328 | 0.275 | 1349 | 0.284 | 1370 | 0.292 | 1391 | -     | -    | -     | -    |
| 513                      | 0.253 | 1274 | 0.262 | 1295 | 0.271 | 1316 | 0.281 | 1337 | 0.290 | 1358 | 0.298 | 1379 | 0.307 | 1400 | -     | -    | -     | -    |
| 542                      | 0.266 | 1282 | 0.276 | 1303 | 0.285 | 1324 | 0.295 | 1345 | 0.305 | 1367 | -     | -    | -     | -    | -     | -    | -     | -    |
| 570                      | 0.279 | 1289 | 0.289 | 1311 | 0.299 | 1332 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 599                      | 0.292 | 1297 | 0.303 | 1318 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 627                      | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 684                      | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |

**Table 160. Unit fan performance EXVG024**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 0.00                     |       | 0.05 |       | 0.10 |       | 0.15 |       | 0.20 |       | 0.25 |       | 0.30 |       | 0.35 |       | 0.40 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.023 | 402  | 0.029 | 454  | 0.035 | 504  | 0.042 | 552  | 0.049 | 598  | 0.056 | 642  | 0.063 | 684  | 0.071 | 724  | 0.079 | 763  |
| 532                      | 0.025 | 411  | 0.031 | 463  | 0.038 | 513  | 0.045 | 560  | 0.052 | 606  | 0.059 | 649  | 0.067 | 691  | 0.075 | 731  | 0.083 | 769  |
| 570                      | 0.029 | 427  | 0.036 | 478  | 0.043 | 527  | 0.050 | 574  | 0.057 | 618  | 0.065 | 661  | 0.073 | 703  | 0.081 | 742  | 0.090 | 780  |
| 608                      | 0.034 | 442  | 0.041 | 492  | 0.048 | 541  | 0.055 | 587  | 0.063 | 631  | 0.071 | 674  | 0.080 | 714  | 0.088 | 753  | 0.097 | 791  |
| 646                      | 0.039 | 458  | 0.046 | 507  | 0.054 | 555  | 0.061 | 601  | 0.070 | 644  | 0.078 | 686  | 0.087 | 726  | 0.096 | 765  | 0.105 | 802  |
| 684                      | 0.045 | 473  | 0.052 | 522  | 0.060 | 569  | 0.068 | 614  | 0.076 | 657  | 0.085 | 699  | 0.094 | 738  | 0.104 | 776  | 0.114 | 813  |
| 722                      | 0.051 | 489  | 0.059 | 538  | 0.067 | 584  | 0.075 | 628  | 0.084 | 671  | 0.093 | 711  | 0.103 | 750  | 0.112 | 788  | 0.123 | 824  |
| 760                      | 0.058 | 505  | 0.066 | 553  | 0.074 | 598  | 0.083 | 642  | 0.092 | 684  | 0.102 | 724  | 0.111 | 763  | 0.122 | 800  | 0.132 | 835  |
| 798                      | 0.065 | 522  | 0.073 | 568  | 0.082 | 613  | 0.091 | 656  | 0.101 | 697  | 0.111 | 737  | 0.121 | 775  | 0.131 | 811  | 0.142 | 846  |
| 836                      | 0.073 | 538  | 0.082 | 584  | 0.091 | 628  | 0.100 | 670  | 0.110 | 711  | 0.120 | 750  | 0.131 | 787  | 0.142 | 823  | 0.153 | 858  |
| 912                      | 0.091 | 572  | 0.100 | 616  | 0.110 | 659  | 0.120 | 699  | 0.131 | 739  | 0.142 | 776  | 0.153 | 813  | 0.165 | 848  | 0.177 | 881  |
| 0.45                     |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       | 0.85 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.087 | 800  | 0.095 | 835  | 0.104 | 869  | 0.113 | 901  | 0.121 | 932  | 0.130 | 962  | 0.139 | 991  | 0.148 | 1018 | 0.157 | 1045 |
| 532                      | 0.091 | 806  | 0.100 | 841  | 0.109 | 875  | 0.118 | 907  | 0.127 | 938  | 0.136 | 968  | 0.145 | 996  | 0.154 | 1024 | 0.164 | 1050 |
| 570                      | 0.099 | 816  | 0.108 | 851  | 0.117 | 884  | 0.126 | 916  | 0.136 | 947  | 0.145 | 977  | 0.155 | 1005 | 0.165 | 1032 | 0.175 | 1059 |
| 608                      | 0.106 | 827  | 0.116 | 861  | 0.125 | 894  | 0.135 | 926  | 0.145 | 956  | 0.155 | 986  | 0.166 | 1014 | 0.176 | 1041 | 0.187 | 1068 |
| 646                      | 0.115 | 837  | 0.125 | 871  | 0.135 | 904  | 0.145 | 935  | 0.155 | 966  | 0.166 | 995  | 0.177 | 1023 | 0.188 | 1050 | 0.199 | 1076 |

**Table 160. Unit fan performance EXVG024 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 684                      | 0.124 | 848  | 0.134 | 881  | 0.144 | 914  | 0.155 | 945  | 0.166 | 975  | 0.177 | 1004 | 0.188 | 1032 | 0.200 | 1059 | 0.211 | 1085 |
| 722                      | 0.133 | 859  | 0.144 | 892  | 0.155 | 924  | 0.166 | 955  | 0.177 | 984  | 0.189 | 1013 | 0.200 | 1041 | 0.212 | 1068 | 0.225 | 1094 |
| 760                      | 0.143 | 869  | 0.154 | 902  | 0.165 | 934  | 0.177 | 964  | 0.189 | 994  | 0.201 | 1022 | 0.213 | 1050 | 0.226 | 1076 | 0.238 | 1102 |
| 798                      | 0.154 | 880  | 0.165 | 913  | 0.177 | 944  | 0.189 | 974  | 0.201 | 1003 | 0.214 | 1031 | 0.227 | 1059 | 0.240 | 1085 | 0.253 | 1111 |
| 836                      | 0.165 | 891  | 0.177 | 923  | 0.189 | 954  | 0.202 | 984  | 0.214 | 1013 | 0.227 | 1041 | 0.241 | 1068 | 0.254 | 1094 | 0.268 | 1120 |
| 912                      | 0.189 | 913  | 0.202 | 945  | 0.215 | 975  | 0.229 | 1004 | 0.243 | 1032 | 0.257 | 1059 | 0.271 | 1086 | 0.286 | 1112 | 0.300 | 1137 |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |
| 509                      | 0.167 | 1071 | 0.176 | 1096 | 0.185 | 1120 | 0.195 | 1143 | 0.204 | 1166 | 0.214 | 1188 |       |      |       |      |       |      |
| 532                      | 0.173 | 1076 | 0.183 | 1101 | 0.193 | 1125 | 0.203 | 1148 | 0.212 | 1171 | 0.222 | 1194 |       |      |       |      |       |      |
| 570                      | 0.185 | 1085 | 0.195 | 1109 | 0.206 | 1134 | 0.216 | 1157 | 0.226 | 1180 | -     | -    |       |      |       |      |       |      |
| 608                      | 0.197 | 1093 | 0.208 | 1118 | 0.219 | 1142 | 0.230 | 1166 | 0.241 | 1189 | -     | -    |       |      |       |      |       |      |
| 646                      | 0.210 | 1102 | 0.221 | 1127 | 0.233 | 1151 | 0.244 | 1174 | 0.256 | 1198 | -     | -    |       |      |       |      |       |      |
| 684                      | 0.223 | 1110 | 0.235 | 1135 | 0.247 | 1159 | 0.259 | 1183 | -     | -    | -     | -    |       |      |       |      |       |      |
| 722                      | 0.237 | 1119 | 0.249 | 1144 | 0.262 | 1168 | 0.275 | 1192 | -     | -    | -     | -    |       |      |       |      |       |      |
| 760                      | 0.251 | 1128 | 0.264 | 1152 | 0.278 | 1176 | 0.291 | 1200 | -     | -    | -     | -    |       |      |       |      |       |      |
| 798                      | 0.266 | 1136 | 0.280 | 1161 | 0.294 | 1185 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 836                      | 0.282 | 1145 | 0.296 | 1169 | 0.311 | 1194 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |

**Table 161. Unit fan performance EXVG030**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     | 0.35  |     | 0.40  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 637                      | 0.037 | 344 | 0.043 | 383 | 0.049 | 421 | 0.056 | 458 | 0.063 | 494 | 0.071 | 528 | 0.079 | 562 | 0.087 | 594 | 0.096 | 625 |
| 665                      | 0.039 | 349 | 0.045 | 388 | 0.051 | 426 | 0.058 | 463 | 0.066 | 498 | 0.074 | 533 | 0.082 | 566 | 0.091 | 598 | 0.100 | 630 |
| 713                      | 0.041 | 359 | 0.048 | 397 | 0.055 | 435 | 0.063 | 472 | 0.071 | 507 | 0.079 | 541 | 0.088 | 574 | 0.098 | 606 | 0.108 | 637 |
| 760                      | 0.044 | 368 | 0.052 | 407 | 0.059 | 444 | 0.068 | 480 | 0.076 | 516 | 0.086 | 550 | 0.095 | 582 | 0.105 | 614 | 0.116 | 645 |
| 808                      | 0.048 | 378 | 0.056 | 417 | 0.064 | 454 | 0.073 | 490 | 0.083 | 525 | 0.092 | 559 | 0.103 | 591 | 0.113 | 623 | 0.125 | 654 |
| 855                      | 0.053 | 389 | 0.061 | 427 | 0.070 | 464 | 0.079 | 500 | 0.089 | 534 | 0.100 | 568 | 0.111 | 600 | 0.122 | 632 | 0.134 | 662 |
| 903                      | 0.058 | 400 | 0.067 | 438 | 0.076 | 474 | 0.086 | 510 | 0.097 | 544 | 0.108 | 577 | 0.120 | 610 | 0.131 | 641 | 0.144 | 671 |
| 950                      | 0.064 | 411 | 0.073 | 448 | 0.083 | 485 | 0.094 | 520 | 0.105 | 554 | 0.117 | 587 | 0.129 | 619 | 0.141 | 650 | 0.154 | 680 |
| 998                      | 0.070 | 422 | 0.080 | 459 | 0.091 | 496 | 0.102 | 531 | 0.114 | 564 | 0.126 | 597 | 0.139 | 629 | 0.152 | 660 | 0.166 | 690 |
| 1045                     | 0.077 | 434 | 0.088 | 471 | 0.099 | 507 | 0.111 | 541 | 0.124 | 575 | 0.137 | 607 | 0.150 | 639 | 0.164 | 669 | 0.178 | 699 |
| 1140                     | 0.094 | 458 | 0.106 | 494 | 0.118 | 529 | 0.131 | 563 | 0.145 | 596 | 0.159 | 628 | 0.174 | 659 | 0.189 | 690 | 0.204 | 719 |
|                          | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |     | 0.70  |     | 0.75  |     | 0.80  |     | 0.85  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 637                      | 0.106 | 656 | 0.115 | 685 | 0.126 | 714 | 0.136 | 741 | 0.147 | 768 | 0.158 | 794 | 0.169 | 819 | 0.180 | 843 | 0.192 | 867 |
| 665                      | 0.110 | 660 | 0.120 | 689 | 0.131 | 718 | 0.141 | 745 | 0.152 | 772 | 0.164 | 798 | 0.175 | 823 | 0.187 | 847 | 0.199 | 870 |
| 713                      | 0.118 | 667 | 0.129 | 697 | 0.140 | 725 | 0.151 | 752 | 0.163 | 779 | 0.175 | 804 | 0.187 | 829 | 0.199 | 853 | 0.212 | 876 |
| 760                      | 0.127 | 675 | 0.138 | 704 | 0.150 | 732 | 0.161 | 759 | 0.174 | 786 | 0.186 | 811 | 0.199 | 836 | 0.212 | 860 | 0.225 | 883 |
| 808                      | 0.136 | 683 | 0.148 | 712 | 0.160 | 740 | 0.173 | 767 | 0.185 | 793 | 0.199 | 818 | 0.212 | 843 | 0.225 | 867 | 0.239 | 890 |



## Unit Fan Performance

**Table 161. Unit fan performance EXVG030 (continued)**

|      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 855  | 0.146 | 692  | 0.158 | 720  | 0.171 | 748  | 0.184 | 775  | 0.198 | 801  | 0.211 | 826  | 0.225 | 850  | 0.239 | 874  | 0.254 | 897  |
| 903  | 0.156 | 700  | 0.170 | 729  | 0.183 | 756  | 0.197 | 783  | 0.211 | 809  | 0.225 | 834  | 0.239 | 858  | 0.254 | 881  | 0.269 | 904  |
| 950  | 0.168 | 709  | 0.181 | 737  | 0.195 | 765  | 0.210 | 791  | 0.224 | 817  | 0.239 | 842  | 0.254 | 866  | 0.269 | 889  | 0.285 | 912  |
| 998  | 0.180 | 718  | 0.194 | 746  | 0.209 | 773  | 0.223 | 800  | 0.239 | 825  | 0.254 | 850  | 0.270 | 874  | 0.286 | 897  | 0.302 | 919  |
| 1045 | 0.192 | 728  | 0.207 | 755  | 0.222 | 782  | 0.238 | 808  | 0.254 | 834  | 0.270 | 858  | 0.286 | 882  | 0.302 | 905  | 0.319 | 927  |
| 1140 | 0.220 | 747  | 0.236 | 774  | 0.252 | 801  | 0.269 | 826  | 0.286 | 851  | 0.303 | 875  | 0.321 | 898  | 0.338 | 921  | 0.356 | 943  |
|      | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 637  | 0.204 | 889  | 0.216 | 912  | 0.228 | 933  | 0.240 | 954  | 0.252 | 974  | 0.265 | 994  | 0.277 | 1013 | 0.289 | 1031 | 0.302 | 1049 |
| 665  | 0.211 | 893  | 0.223 | 915  | 0.236 | 936  | 0.248 | 957  | 0.261 | 977  | 0.274 | 997  | 0.286 | 1016 | 0.299 | 1034 | 0.312 | 1052 |
| 713  | 0.225 | 899  | 0.237 | 921  | 0.250 | 942  | 0.264 | 963  | 0.277 | 983  | 0.290 | 1003 | 0.303 | 1022 | 0.317 | 1040 | 0.330 | 1058 |
| 760  | 0.238 | 905  | 0.252 | 927  | 0.265 | 948  | 0.279 | 969  | 0.293 | 989  | 0.307 | 1008 | 0.321 | 1027 | 0.335 | 1046 | 0.348 | 1064 |
| 808  | 0.253 | 912  | 0.267 | 934  | 0.281 | 955  | 0.296 | 975  | 0.310 | 995  | 0.324 | 1015 | 0.339 | 1034 | 0.353 | 1052 | 0.368 | 1070 |
| 855  | 0.268 | 919  | 0.283 | 941  | 0.298 | 962  | 0.312 | 982  | 0.327 | 1002 | 0.342 | 1021 | 0.357 | 1040 | 0.372 | 1058 | 0.388 | 1076 |
| 903  | 0.284 | 926  | 0.299 | 948  | 0.315 | 969  | 0.330 | 989  | 0.346 | 1008 | 0.361 | 1028 | 0.377 | 1046 | 0.393 | 1064 | 0.408 | 1082 |
| 950  | 0.301 | 934  | 0.316 | 955  | 0.332 | 976  | 0.348 | 996  | 0.365 | 1015 | 0.381 | 1034 | 0.397 | 1053 | 0.413 | 1071 | 0.429 | 1089 |
| 998  | 0.318 | 941  | 0.335 | 962  | 0.351 | 983  | 0.368 | 1003 | 0.384 | 1022 | 0.401 | 1041 | 0.418 | 1060 | 0.435 | 1078 | 0.452 | 1095 |
| 1045 | 0.336 | 949  | 0.353 | 970  | 0.370 | 990  | 0.387 | 1010 | 0.405 | 1029 | 0.422 | 1048 | 0.439 | 1066 | 0.457 | 1084 | -     | -    |
| 1140 | 0.374 | 964  | 0.392 | 985  | 0.411 | 1005 | 0.429 | 1025 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
|      | 1.35  |      | 1.40  |      | 1.45  |      | 1.50  |      | 1.55  |      | 1.60  |      | 1.65  |      | 1.70  |      | 1.75  |      |
| CFM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 637  | 0.314 | 1067 | 0.326 | 1084 | 0.339 | 1101 | 0.351 | 1118 | 0.363 | 1134 | 0.374 | 1150 | 0.386 | 1165 | 0.398 | 1180 | 0.409 | 1196 |
| 665  | 0.325 | 1070 | 0.337 | 1087 | 0.350 | 1104 | 0.362 | 1121 | 0.375 | 1137 | 0.387 | 1153 | 0.399 | 1168 | 0.411 | 1184 | 0.422 | 1199 |
| 713  | 0.343 | 1076 | 0.357 | 1093 | 0.370 | 1110 | 0.383 | 1126 | 0.396 | 1142 | 0.408 | 1158 | 0.421 | 1174 | 0.433 | 1189 | -     | -    |
| 760  | 0.362 | 1081 | 0.376 | 1098 | 0.390 | 1115 | 0.403 | 1132 | 0.417 | 1148 | 0.430 | 1164 | 0.443 | 1179 | 0.456 | 1194 | -     | -    |
| 808  | 0.382 | 1087 | 0.397 | 1104 | 0.411 | 1121 | 0.425 | 1137 | 0.439 | 1153 | 0.453 | 1169 | 0.467 | 1185 | 0.480 | 1200 | -     | -    |
| 855  | 0.403 | 1093 | 0.417 | 1110 | 0.432 | 1127 | 0.447 | 1143 | 0.462 | 1159 | 0.476 | 1175 | 0.490 | 1191 | -     | -    | -     | -    |
| 903  | 0.424 | 1100 | 0.439 | 1117 | 0.455 | 1133 | 0.470 | 1149 | 0.485 | 1165 | -     | -    | -     | -    | -     | -    | -     | -    |
| 950  | 0.446 | 1106 | 0.462 | 1123 | 0.478 | 1139 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 998  | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 1045 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 1140 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |

**Table 162. Unit fan performance EXVG036**

| External Static Pressure |             |            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |
|--------------------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
|                          | <b>0.00</b> |            | <b>0.05</b> |            | <b>0.10</b> |            | <b>0.15</b> |            | <b>0.20</b> |            | <b>0.25</b> |            | <b>0.30</b> |            | <b>0.35</b> |            | <b>0.40</b> |            |
| <b>CFM</b>               | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> |
| 764                      | 0.045       | 369        | 0.052       | 408        | 0.060       | 445        | 0.068       | 481        | 0.077       | 516        | 0.086       | 550        | 0.096       | 583        | 0.106       | 615        | 0.117       | 646        |
| 798                      | 0.047       | 376        | 0.055       | 415        | 0.063       | 452        | 0.072       | 488        | 0.081       | 523        | 0.091       | 557        | 0.101       | 589        | 0.112       | 621        | 0.123       | 652        |
| 855                      | 0.053       | 389        | 0.061       | 427        | 0.070       | 464        | 0.079       | 500        | 0.089       | 534        | 0.100       | 568        | 0.111       | 600        | 0.122       | 632        | 0.134       | 662        |
| 912                      | 0.059       | 402        | 0.068       | 440        | 0.078       | 476        | 0.088       | 512        | 0.099       | 546        | 0.110       | 579        | 0.121       | 611        | 0.133       | 643        | 0.146       | 673        |
| 969                      | 0.066       | 415        | 0.076       | 453        | 0.086       | 489        | 0.097       | 524        | 0.109       | 558        | 0.121       | 591        | 0.133       | 623        | 0.146       | 654        | 0.159       | 684        |

**Table 162. Unit fan performance EXVG036 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1026                     | 0.074 | 429  | 0.085 | 466  | 0.096 | 502  | 0.108 | 537  | 0.120 | 571  | 0.132 | 603  | 0.145 | 635  | 0.159 | 665  | 0.173 | 695  |
| 1083                     | 0.084 | 443  | 0.095 | 480  | 0.107 | 516  | 0.119 | 550  | 0.132 | 583  | 0.145 | 616  | 0.159 | 647  | 0.173 | 677  | 0.188 | 707  |
| 1140                     | 0.094 | 458  | 0.106 | 494  | 0.118 | 529  | 0.131 | 563  | 0.145 | 596  | 0.159 | 628  | 0.174 | 659  | 0.189 | 690  | 0.204 | 719  |
| 1197                     | 0.105 | 472  | 0.118 | 508  | 0.131 | 543  | 0.145 | 577  | 0.159 | 610  | 0.174 | 641  | 0.189 | 672  | 0.205 | 702  | 0.221 | 731  |
| 1254                     | 0.117 | 487  | 0.131 | 523  | 0.145 | 557  | 0.160 | 591  | 0.175 | 623  | 0.190 | 655  | 0.206 | 685  | 0.223 | 714  | 0.239 | 743  |
| 1368                     | 0.146 | 518  | 0.161 | 553  | 0.176 | 586  | 0.192 | 619  | 0.209 | 651  | 0.226 | 681  | 0.243 | 711  | 0.261 | 740  | 0.279 | 767  |
| 0.45                     |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       | 0.85 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 764                      | 0.127 | 676  | 0.139 | 705  | 0.150 | 733  | 0.162 | 760  | 0.175 | 786  | 0.187 | 812  | 0.200 | 836  | 0.213 | 860  | 0.226 | 884  |
| 798                      | 0.134 | 682  | 0.146 | 710  | 0.158 | 738  | 0.170 | 765  | 0.183 | 792  | 0.196 | 817  | 0.209 | 841  | 0.223 | 865  | 0.236 | 888  |
| 855                      | 0.146 | 692  | 0.158 | 720  | 0.171 | 748  | 0.184 | 775  | 0.198 | 801  | 0.211 | 826  | 0.225 | 850  | 0.239 | 874  | 0.254 | 897  |
| 912                      | 0.159 | 702  | 0.172 | 730  | 0.185 | 758  | 0.199 | 784  | 0.213 | 810  | 0.228 | 835  | 0.242 | 859  | 0.257 | 883  | 0.272 | 906  |
| 969                      | 0.172 | 713  | 0.186 | 741  | 0.200 | 768  | 0.215 | 795  | 0.230 | 820  | 0.245 | 845  | 0.260 | 869  | 0.276 | 892  | 0.292 | 915  |
| 1026                     | 0.187 | 724  | 0.202 | 752  | 0.217 | 779  | 0.232 | 805  | 0.247 | 830  | 0.263 | 855  | 0.279 | 878  | 0.296 | 902  | 0.312 | 924  |
| 1083                     | 0.203 | 735  | 0.218 | 763  | 0.234 | 790  | 0.250 | 815  | 0.266 | 840  | 0.283 | 865  | 0.299 | 888  | 0.316 | 911  | 0.334 | 933  |
| 1140                     | 0.220 | 747  | 0.236 | 774  | 0.252 | 801  | 0.269 | 826  | 0.286 | 851  | 0.303 | 875  | 0.321 | 898  | 0.338 | 921  | 0.356 | 943  |
| 1197                     | 0.238 | 759  | 0.254 | 786  | 0.272 | 812  | 0.289 | 837  | 0.307 | 862  | 0.325 | 885  | 0.343 | 909  | 0.361 | 931  | 0.380 | 953  |
| 1254                     | 0.257 | 770  | 0.274 | 797  | 0.292 | 823  | 0.310 | 848  | 0.329 | 872  | 0.347 | 896  | 0.366 | 919  | 0.385 | 941  | 0.405 | 962  |
| 1368                     | 0.298 | 794  | 0.317 | 820  | 0.336 | 846  | 0.356 | 870  | 0.376 | 894  | 0.396 | 917  | 0.417 | 939  | 0.437 | 961  | 0.458 | 982  |
| 0.90                     |       | 0.95 |       | 1.00 |       | 1.05 |       | 1.10 |       | 1.15 |       | 1.20 |       | 1.25 |       | 1.30 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 764                      | 0.240 | 906  | 0.253 | 928  | 0.267 | 949  | 0.280 | 970  | 0.294 | 990  | 0.308 | 1009 | 0.322 | 1028 | 0.336 | 1046 | 0.350 | 1064 |
| 798                      | 0.250 | 911  | 0.264 | 933  | 0.278 | 954  | 0.292 | 974  | 0.306 | 994  | 0.321 | 1013 | 0.335 | 1032 | 0.349 | 1051 | 0.364 | 1068 |
| 855                      | 0.268 | 919  | 0.283 | 941  | 0.298 | 962  | 0.312 | 982  | 0.327 | 1002 | 0.342 | 1021 | 0.357 | 1040 | 0.372 | 1058 | 0.388 | 1076 |
| 912                      | 0.287 | 928  | 0.303 | 949  | 0.318 | 970  | 0.334 | 990  | 0.349 | 1010 | 0.365 | 1029 | 0.381 | 1048 | 0.397 | 1066 | 0.412 | 1083 |
| 969                      | 0.307 | 937  | 0.324 | 958  | 0.340 | 978  | 0.356 | 999  | 0.372 | 1018 | 0.389 | 1037 | 0.405 | 1056 | 0.422 | 1074 | 0.438 | 1091 |
| 1026                     | 0.329 | 946  | 0.345 | 967  | 0.362 | 987  | 0.379 | 1007 | 0.396 | 1026 | 0.414 | 1045 | 0.431 | 1064 | 0.448 | 1082 | 0.465 | 1099 |
| 1083                     | 0.351 | 955  | 0.368 | 976  | 0.386 | 996  | 0.404 | 1016 | 0.422 | 1035 | 0.439 | 1054 | 0.457 | 1072 | 0.475 | 1090 | 0.493 | 1107 |
| 1140                     | 0.374 | 964  | 0.392 | 985  | 0.411 | 1005 | 0.429 | 1025 | 0.448 | 1044 | 0.466 | 1062 | 0.485 | 1080 | 0.503 | 1098 | 0.522 | 1115 |
| 1197                     | 0.399 | 974  | 0.418 | 994  | 0.437 | 1014 | 0.456 | 1034 | 0.475 | 1053 | 0.494 | 1071 | 0.514 | 1089 | 0.533 | 1106 | 0.552 | 1124 |
| 1254                     | 0.424 | 983  | 0.444 | 1004 | 0.464 | 1023 | 0.484 | 1043 | 0.503 | 1061 | 0.523 | 1079 | 0.543 | 1097 | 0.563 | 1115 | 0.583 | 1132 |
| 1368                     | 0.479 | 1002 | 0.500 | 1022 | 0.521 | 1042 | 0.542 | 1060 | 0.564 | 1079 | 0.585 | 1097 | 0.607 | 1114 | 0.628 | 1131 | -     | -    |
| 1.35                     |       | 1.40 |       | 1.45 |       | 1.50 |       | 1.55 |       | 1.60 |       | 1.65 |       | 1.70 |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |
| 764                      | 0.364 | 1082 | 0.378 | 1099 | 0.391 | 1116 | 0.405 | 1132 | 0.419 | 1148 | 0.432 | 1164 | 0.445 | 1180 | 0.458 | 1195 |       |      |
| 798                      | 0.378 | 1086 | 0.392 | 1103 | 0.406 | 1120 | 0.420 | 1136 | 0.434 | 1152 | 0.448 | 1168 | 0.462 | 1184 | 0.475 | 1199 |       |      |
| 855                      | 0.403 | 1093 | 0.417 | 1110 | 0.432 | 1127 | 0.447 | 1143 | 0.462 | 1159 | 0.476 | 1175 | 0.490 | 1191 | -     | -    |       |      |
| 912                      | 0.428 | 1101 | 0.444 | 1118 | 0.459 | 1134 | 0.475 | 1151 | 0.490 | 1167 | 0.505 | 1182 | 0.520 | 1198 | -     | -    |       |      |
| 969                      | 0.455 | 1108 | 0.471 | 1125 | 0.487 | 1142 | 0.503 | 1158 | 0.519 | 1174 | 0.535 | 1190 | -     | -    | -     | -    |       |      |
| 1026                     | 0.482 | 1116 | 0.499 | 1133 | 0.516 | 1150 | 0.533 | 1166 | 0.550 | 1182 | 0.566 | 1197 | -     | -    | -     | -    |       |      |
| 1083                     | 0.511 | 1124 | 0.528 | 1141 | 0.546 | 1157 | 0.564 | 1173 | 0.581 | 1189 | -     | -    | -     | -    | -     | -    |       |      |



## Unit Fan Performance

**Table 162. Unit fan performance EXVG036 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |   |   |   |   |   |   |   |   |
|--------------------------|-------|------|-------|------|-------|------|-------|------|---|---|---|---|---|---|---|---|
| 1140                     | 0.540 | 1132 | 0.559 | 1149 | 0.577 | 1165 | 0.595 | 1181 | - | - | - | - | - | - | - | - |
| 1197                     | 0.571 | 1140 | 0.590 | 1157 | 0.609 | 1173 | 0.628 | 1189 | - | - | - | - | - | - | - | - |
| 1254                     | 0.603 | 1148 | 0.623 | 1165 | 0.643 | 1181 | 0.663 | 1196 | - | - | - | - | - | - | - | - |
| 1368                     | -     | -    | -     | -    | -     | -    | -     | -    | - | - | - | - | - | - | - | - |

**Table 163. Unit fan performance EXVG042**

| External Static Pressure |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.116 | 444 | 0.121 | 461 | 0.126 | 480 | 0.132 | 502 | 0.138 | 525  | 0.145 | 549  | 0.152 | 575  | 0.159 | 601  | 0.167 | 628  |
| 931                      | 0.116 | 447 | 0.121 | 464 | 0.127 | 484 | 0.134 | 505 | 0.141 | 528  | 0.148 | 553  | 0.156 | 578  | 0.164 | 605  | 0.172 | 632  |
| 998                      | 0.116 | 454 | 0.123 | 471 | 0.130 | 490 | 0.138 | 512 | 0.145 | 535  | 0.154 | 559  | 0.163 | 585  | 0.172 | 611  | 0.181 | 638  |
| 1064                     | 0.118 | 461 | 0.126 | 478 | 0.134 | 497 | 0.143 | 519 | 0.152 | 542  | 0.161 | 566  | 0.171 | 592  | 0.181 | 618  | 0.192 | 646  |
| 1131                     | 0.122 | 469 | 0.130 | 486 | 0.140 | 505 | 0.149 | 527 | 0.159 | 550  | 0.170 | 574  | 0.180 | 600  | 0.192 | 627  | 0.203 | 654  |
| 1197                     | 0.126 | 478 | 0.136 | 495 | 0.146 | 514 | 0.157 | 535 | 0.168 | 558  | 0.179 | 583  | 0.191 | 609  | 0.203 | 635  | 0.216 | 662  |
| 1264                     | 0.132 | 487 | 0.143 | 504 | 0.154 | 523 | 0.166 | 544 | 0.178 | 568  | 0.190 | 592  | 0.203 | 618  | 0.217 | 644  | 0.230 | 671  |
| 1330                     | 0.139 | 496 | 0.151 | 513 | 0.163 | 532 | 0.176 | 554 | 0.189 | 577  | 0.203 | 601  | 0.216 | 627  | 0.231 | 653  | 0.246 | 680  |
| 1397                     | 0.148 | 505 | 0.161 | 522 | 0.174 | 541 | 0.188 | 563 | 0.202 | 586  | 0.216 | 610  | 0.231 | 636  | 0.247 | 663  | 0.263 | 690  |
| 1463                     | 0.157 | 514 | 0.171 | 531 | 0.185 | 550 | 0.200 | 572 | 0.215 | 595  | 0.231 | 619  | 0.247 | 645  | 0.263 | 671  | 0.280 | 698  |
| 1596                     | 0.180 | 530 | 0.196 | 547 | 0.213 | 566 | 0.229 | 588 | 0.247 | 611  | 0.264 | 635  | 0.282 | 661  | 0.301 | 688  | 0.320 | 715  |
|                          | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.176 | 656 | 0.185 | 684 | 0.194 | 711 | 0.204 | 739 | 0.214 | 766  | 0.224 | 793  | 0.236 | 819  | 0.247 | 845  | 0.259 | 869  |
| 931                      | 0.181 | 659 | 0.191 | 687 | 0.201 | 715 | 0.211 | 742 | 0.222 | 770  | 0.233 | 796  | 0.245 | 823  | 0.257 | 848  | 0.269 | 873  |
| 998                      | 0.192 | 666 | 0.202 | 694 | 0.213 | 721 | 0.224 | 749 | 0.236 | 776  | 0.248 | 803  | 0.261 | 829  | 0.274 | 855  | 0.288 | 879  |
| 1064                     | 0.203 | 673 | 0.214 | 701 | 0.226 | 728 | 0.239 | 756 | 0.252 | 783  | 0.265 | 810  | 0.279 | 836  | 0.293 | 862  | 0.307 | 887  |
| 1131                     | 0.216 | 681 | 0.228 | 709 | 0.241 | 737 | 0.255 | 764 | 0.269 | 791  | 0.283 | 818  | 0.298 | 844  | 0.313 | 870  | 0.328 | 895  |
| 1197                     | 0.229 | 690 | 0.243 | 717 | 0.257 | 745 | 0.272 | 773 | 0.286 | 800  | 0.302 | 827  | 0.318 | 853  | 0.334 | 878  | 0.351 | 903  |
| 1264                     | 0.245 | 699 | 0.259 | 726 | 0.274 | 754 | 0.290 | 782 | 0.306 | 809  | 0.322 | 836  | 0.339 | 862  | 0.356 | 887  | 0.374 | 912  |
| 1330                     | 0.261 | 708 | 0.277 | 736 | 0.293 | 763 | 0.309 | 791 | 0.326 | 818  | 0.344 | 845  | 0.362 | 871  | 0.380 | 897  | 0.399 | 921  |
| 1397                     | 0.279 | 717 | 0.296 | 745 | 0.313 | 773 | 0.330 | 800 | 0.348 | 827  | 0.367 | 854  | 0.386 | 880  | 0.405 | 906  | 0.425 | 931  |
| 1463                     | 0.298 | 726 | 0.315 | 754 | 0.334 | 781 | 0.352 | 809 | 0.371 | 836  | 0.391 | 863  | 0.411 | 889  | 0.431 | 915  | 0.452 | 939  |
| 1596                     | 0.339 | 742 | 0.359 | 770 | 0.380 | 798 | 0.400 | 825 | 0.421 | 852  | 0.443 | 879  | 0.465 | 905  | 0.487 | 931  | 0.510 | 956  |
|                          | 0.90  |     | 0.95  |     | 1.00  |     | 1.05  |     | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.271 | 893 | 0.284 | 916 | 0.297 | 939 | 0.311 | 960 | 0.325 | 980  | 0.339 | 1000 | 0.354 | 1018 | 0.370 | 1036 | 0.386 | 1053 |
| 931                      | 0.282 | 897 | 0.296 | 920 | 0.310 | 942 | 0.324 | 963 | 0.338 | 984  | 0.354 | 1003 | 0.369 | 1022 | 0.385 | 1040 | 0.402 | 1057 |
| 998                      | 0.302 | 903 | 0.316 | 926 | 0.331 | 949 | 0.347 | 970 | 0.362 | 990  | 0.378 | 1010 | 0.395 | 1028 | 0.412 | 1046 | 0.430 | 1063 |
| 1064                     | 0.322 | 910 | 0.338 | 934 | 0.354 | 956 | 0.370 | 977 | 0.387 | 997  | 0.404 | 1017 | 0.422 | 1036 | 0.440 | 1053 | 0.458 | 1071 |
| 1131                     | 0.345 | 919 | 0.361 | 942 | 0.378 | 964 | 0.395 | 985 | 0.413 | 1005 | 0.431 | 1025 | 0.450 | 1044 | 0.469 | 1061 | 0.489 | 1079 |
| 1197                     | 0.368 | 927 | 0.385 | 950 | 0.403 | 972 | 0.422 | 994 | 0.440 | 1014 | 0.460 | 1033 | 0.479 | 1052 | 0.500 | 1070 | 0.520 | 1087 |

**Table 163. Unit fan performance EXVG042 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1264                     | 0.392 | 936  | 0.411 | 959  | 0.430 | 981  | 0.449 | 1003 | 0.469 | 1023 | 0.490 | 1043 | 0.510 | 1061 | 0.532 | 1079 | 0.553 | 1096 |
| 1330                     | 0.418 | 945  | 0.438 | 968  | 0.458 | 991  | 0.478 | 1012 | 0.499 | 1032 | 0.520 | 1052 | 0.542 | 1070 | 0.564 | 1088 | 0.587 | 1105 |
| 1397                     | 0.445 | 955  | 0.466 | 978  | 0.487 | 1000 | 0.508 | 1021 | 0.530 | 1041 | 0.553 | 1061 | 0.576 | 1080 | 0.599 | 1097 | 0.623 | 1115 |
| 1463                     | 0.473 | 963  | 0.495 | 987  | 0.517 | 1009 | 0.540 | 1030 | 0.563 | 1050 | 0.586 | 1070 | 0.610 | 1088 | 0.634 | 1106 | 0.659 | 1123 |
| 1596                     | 0.534 | 980  | 0.557 | 1003 | 0.582 | 1025 | 0.606 | 1046 | 0.631 | 1066 | 0.657 | 1086 | -     | -    | -     | -    | -     | -    |
| 1.35                     |       | 1.40 |       | 1.45 |       | 1.50 |       | 1.55 |       | 1.60 |       | 1.65 |       | 1.70 |       | 1.75 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 891                      | 0.402 | 1070 | 0.419 | 1086 | 0.436 | 1102 | 0.453 | 1117 | 0.471 | 1132 | 0.490 | 1148 | 0.508 | 1164 | 0.528 | 1180 | 0.548 | 1197 |
| 931                      | 0.419 | 1073 | 0.436 | 1089 | 0.454 | 1105 | 0.472 | 1120 | 0.490 | 1136 | 0.509 | 1151 | 0.529 | 1167 | 0.549 | 1183 | 0.569 | 1200 |
| 998                      | 0.448 | 1080 | 0.466 | 1096 | 0.485 | 1111 | 0.504 | 1127 | 0.524 | 1142 | 0.544 | 1158 | 0.564 | 1173 | 0.585 | 1190 | -     | -    |
| 1064                     | 0.477 | 1087 | 0.497 | 1103 | 0.517 | 1119 | 0.537 | 1134 | 0.557 | 1149 | 0.579 | 1165 | 0.600 | 1181 | 0.622 | 1197 | -     | -    |
| 1131                     | 0.509 | 1095 | 0.529 | 1111 | 0.550 | 1127 | 0.571 | 1142 | 0.593 | 1157 | 0.615 | 1173 | 0.638 | 1189 | -     | -    | -     | -    |
| 1197                     | 0.541 | 1104 | 0.563 | 1120 | 0.585 | 1135 | 0.607 | 1151 | 0.630 | 1166 | 0.653 | 1181 | 0.676 | 1197 | -     | -    | -     | -    |
| 1264                     | 0.575 | 1113 | 0.598 | 1129 | 0.621 | 1144 | 0.644 | 1160 | 0.668 | 1175 | 0.692 | 1191 | -     | -    | -     | -    | -     | -    |
| 1330                     | 0.610 | 1122 | 0.634 | 1138 | 0.658 | 1154 | 0.682 | 1169 | 0.707 | 1184 | 0.732 | 1200 | -     | -    | -     | -    | -     | -    |
| 1397                     | 0.647 | 1131 | 0.671 | 1147 | 0.696 | 1163 | 0.722 | 1178 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 1463                     | 0.684 | 1140 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 1596                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |

**Table 164. Unit fan performance EXVG048**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|
| 0.00                     |       | 0.05 |       | 0.10 |       | 0.15 |       | 0.20 |       | 0.25 |       | 0.30 |       | 0.35 |       | 0.40 |       |     |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM |
| 1018                     | 0.117 | 456  | 0.124 | 473  | 0.131 | 492  | 0.139 | 514  | 0.147 | 537  | 0.156 | 561  | 0.165 | 587  | 0.174 | 613  | 0.184 | 640 |
| 1064                     | 0.118 | 461  | 0.126 | 478  | 0.134 | 497  | 0.143 | 519  | 0.152 | 542  | 0.161 | 566  | 0.171 | 592  | 0.181 | 618  | 0.192 | 646 |
| 1140                     | 0.122 | 470  | 0.131 | 487  | 0.140 | 507  | 0.150 | 528  | 0.160 | 551  | 0.171 | 576  | 0.182 | 601  | 0.193 | 628  | 0.205 | 655 |
| 1216                     | 0.128 | 480  | 0.138 | 497  | 0.148 | 517  | 0.159 | 538  | 0.170 | 561  | 0.182 | 585  | 0.194 | 611  | 0.207 | 638  | 0.220 | 665 |
| 1292                     | 0.135 | 491  | 0.146 | 508  | 0.158 | 527  | 0.170 | 548  | 0.182 | 571  | 0.195 | 596  | 0.209 | 622  | 0.223 | 648  | 0.237 | 675 |
| 1368                     | 0.144 | 501  | 0.156 | 518  | 0.169 | 537  | 0.182 | 559  | 0.196 | 582  | 0.210 | 606  | 0.225 | 632  | 0.240 | 659  | 0.255 | 686 |
| 1444                     | 0.154 | 511  | 0.168 | 528  | 0.182 | 548  | 0.196 | 569  | 0.211 | 592  | 0.227 | 617  | 0.242 | 642  | 0.258 | 669  | 0.275 | 696 |
| 1520                     | 0.167 | 521  | 0.181 | 538  | 0.197 | 558  | 0.212 | 579  | 0.228 | 602  | 0.245 | 627  | 0.262 | 652  | 0.279 | 679  | 0.297 | 706 |
| 1596                     | 0.180 | 530  | 0.196 | 547  | 0.213 | 566  | 0.229 | 588  | 0.247 | 611  | 0.264 | 635  | 0.282 | 661  | 0.301 | 688  | 0.320 | 715 |
| 1672                     | 0.196 | 538  | 0.213 | 555  | 0.231 | 574  | 0.249 | 595  | 0.267 | 619  | 0.286 | 643  | 0.305 | 669  | 0.325 | 695  | 0.345 | 722 |
| 1824                     | 0.232 | 548  | 0.251 | 565  | 0.271 | 585  | 0.292 | 606  | 0.312 | 629  | 0.334 | 654  | 0.355 | 679  | 0.377 | 706  | 0.400 | 733 |
| 0.45                     |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       | 0.85 |       |     |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM |
| 1018                     | 0.195 | 668  | 0.206 | 696  | 0.217 | 723  | 0.229 | 751  | 0.241 | 778  | 0.253 | 805  | 0.266 | 831  | 0.280 | 857  | 0.294 | 881 |
| 1064                     | 0.203 | 673  | 0.214 | 701  | 0.226 | 728  | 0.239 | 756  | 0.252 | 783  | 0.265 | 810  | 0.279 | 836  | 0.293 | 862  | 0.307 | 887 |
| 1140                     | 0.217 | 682  | 0.230 | 710  | 0.243 | 738  | 0.257 | 765  | 0.271 | 792  | 0.285 | 819  | 0.300 | 845  | 0.316 | 871  | 0.331 | 896 |
| 1216                     | 0.234 | 692  | 0.247 | 720  | 0.262 | 748  | 0.277 | 775  | 0.292 | 802  | 0.308 | 829  | 0.324 | 855  | 0.340 | 881  | 0.357 | 906 |
| 1292                     | 0.251 | 703  | 0.267 | 730  | 0.282 | 758  | 0.298 | 786  | 0.314 | 813  | 0.331 | 840  | 0.349 | 866  | 0.366 | 891  | 0.384 | 916 |



## Unit Fan Performance

**Table 164. Unit fan performance EXVG048 (continued)**

|            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |
|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
| 1368       | 0.271       | 713        | 0.287       | 741        | 0.304       | 769        | 0.321       | 796        | 0.339       | 823        | 0.357       | 850        | 0.375       | 876        | 0.394       | 902        | 0.413       | 927        |
| 1444       | 0.292       | 723        | 0.310       | 751        | 0.327       | 779        | 0.346       | 806        | 0.365       | 834        | 0.384       | 860        | 0.403       | 887        | 0.424       | 912        | 0.444       | 937        |
| 1520       | 0.315       | 733        | 0.334       | 761        | 0.353       | 789        | 0.372       | 816        | 0.392       | 843        | 0.413       | 870        | 0.433       | 896        | 0.455       | 922        | 0.476       | 947        |
| 1596       | 0.339       | 742        | 0.359       | 770        | 0.380       | 798        | 0.400       | 825        | 0.421       | 852        | 0.443       | 879        | 0.465       | 905        | 0.487       | 931        | 0.510       | 956        |
| 1672       | 0.366       | 750        | 0.387       | 777        | 0.408       | 805        | 0.430       | 833        | 0.452       | 860        | 0.475       | 887        | 0.498       | 913        | 0.522       | 938        | 0.546       | 963        |
| 1824       | 0.423       | 760        | 0.446       | 788        | 0.470       | 816        | 0.494       | 843        | 0.519       | 871        | 0.544       | 897        | 0.570       | 924        | 0.596       | 949        | 0.622       | 974        |
|            | <b>0.90</b> |            | <b>0.95</b> |            | <b>1.00</b> |            | <b>1.05</b> |            | <b>1.10</b> |            | <b>1.15</b> |            | <b>1.20</b> |            | <b>1.25</b> |            | <b>1.30</b> |            |
| <b>CFM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> |
| 1018       | 0.308       | 905        | 0.323       | 928        | 0.338       | 951        | 0.354       | 972        | 0.370       | 992        | 0.386       | 1012       | 0.403       | 1030       | 0.420       | 1048       | 0.438       | 1065       |
| 1064       | 0.322       | 910        | 0.338       | 934        | 0.354       | 956        | 0.370       | 977        | 0.387       | 997        | 0.404       | 1017       | 0.422       | 1036       | 0.440       | 1053       | 0.458       | 1071       |
| 1140       | 0.348       | 920        | 0.364       | 943        | 0.381       | 965        | 0.399       | 986        | 0.417       | 1007       | 0.435       | 1026       | 0.454       | 1045       | 0.473       | 1063       | 0.493       | 1080       |
| 1216       | 0.375       | 930        | 0.392       | 953        | 0.411       | 975        | 0.429       | 996        | 0.448       | 1017       | 0.468       | 1036       | 0.488       | 1055       | 0.509       | 1073       | 0.529       | 1090       |
| 1292       | 0.403       | 940        | 0.422       | 963        | 0.442       | 985        | 0.461       | 1007       | 0.482       | 1027       | 0.503       | 1046       | 0.524       | 1065       | 0.545       | 1083       | 0.567       | 1100       |
| 1368       | 0.433       | 951        | 0.453       | 974        | 0.474       | 996        | 0.495       | 1017       | 0.517       | 1037       | 0.539       | 1057       | 0.561       | 1076       | 0.584       | 1093       | 0.607       | 1111       |
| 1444       | 0.465       | 961        | 0.486       | 984        | 0.508       | 1006       | 0.531       | 1027       | 0.553       | 1048       | 0.576       | 1067       | 0.600       | 1086       | 0.624       | 1104       | 0.648       | 1121       |
| 1520       | 0.499       | 971        | 0.521       | 994        | 0.544       | 1016       | 0.568       | 1037       | 0.591       | 1058       | 0.616       | 1077       | 0.641       | 1096       | 0.666       | 1114       | 0.691       | 1131       |
| 1596       | 0.534       | 980        | 0.557       | 1003       | 0.582       | 1025       | 0.606       | 1046       | 0.631       | 1066       | 0.657       | 1086       | 0.683       | 1105       | 0.709       | 1122       | 0.736       | 1140       |
| 1672       | 0.571       | 987        | 0.595       | 1010       | 0.621       | 1032       | 0.647       | 1054       | 0.673       | 1074       | 0.700       | 1094       | 0.727       | 1112       | 0.754       | 1130       | 0.782       | 1147       |
| 1824       | 0.649       | 998        | 0.676       | 1021       | 0.704       | 1043       | 0.732       | 1064       | 0.761       | 1085       | 0.790       | 1104       | -           | -          | -           | -          | -           | -          |
|            | <b>1.35</b> |            | <b>1.40</b> |            | <b>1.45</b> |            | <b>1.50</b> |            | <b>1.55</b> |            | <b>1.60</b> |            | <b>1.65</b> |            | <b>1.70</b> |            |             |            |
| <b>CFM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> |             |            |
| 1018       | 0.456       | 1082       | 0.475       | 1098       | 0.494       | 1114       | 0.514       | 1129       | 0.534       | 1144       | 0.554       | 1160       | 0.575       | 1176       | 0.596       | 1192       |             |            |
| 1064       | 0.477       | 1087       | 0.497       | 1103       | 0.517       | 1119       | 0.537       | 1134       | 0.557       | 1149       | 0.579       | 1165       | 0.600       | 1181       | 0.622       | 1197       |             |            |
| 1140       | 0.513       | 1096       | 0.534       | 1112       | 0.555       | 1128       | 0.576       | 1143       | 0.598       | 1159       | 0.620       | 1174       | 0.643       | 1190       | -           | -          |             |            |
| 1216       | 0.551       | 1106       | 0.572       | 1122       | 0.595       | 1138       | 0.617       | 1153       | 0.640       | 1169       | 0.664       | 1184       | 0.688       | 1200       | -           | -          |             |            |
| 1292       | 0.590       | 1117       | 0.613       | 1133       | 0.636       | 1148       | 0.660       | 1164       | 0.684       | 1179       | 0.709       | 1194       | -           | -          | -           | -          |             |            |
| 1368       | 0.631       | 1127       | 0.655       | 1143       | 0.679       | 1159       | 0.704       | 1174       | 0.730       | 1190       | -           | -          | -           | -          | -           | -          |             |            |
| 1444       | 0.673       | 1137       | 0.699       | 1153       | 0.724       | 1169       | 0.751       | 1185       | 0.777       | 1200       | -           | -          | -           | -          | -           | -          |             |            |
| 1520       | 0.717       | 1147       | 0.744       | 1163       | 0.771       | 1179       | 0.798       | 1194       | -           | -          | -           | -          | -           | -          | -           | -          |             |            |
| 1596       | 0.763       | 1156       | 0.791       | 1172       | 0.819       | 1188       | -           | -          | -           | -          | -           | -          | -           | -          | -           | -          |             |            |
| 1672       | 0.811       | 1164       | 0.840       | 1180       | 0.869       | 1195       | -           | -          | -           | -          | -           | -          | -           | -          | -           | -          |             |            |
| 1824       | -           | -          | -           | -          | -           | -          | -           | -          | -           | -          | -           | -          | -           | -          | -           | -          |             |            |

**Table 165. Unit fan performance EXVG060**

| External Static Pressure |             |            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |             |            |
|--------------------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
|                          | <b>0.00</b> |            | <b>0.05</b> |            | <b>0.10</b> |            | <b>0.15</b> |            | <b>0.20</b> |            | <b>0.25</b> |            | <b>0.30</b> |            | <b>0.35</b> |            | <b>0.40</b> |            |
| <b>CFM</b>               | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> | <b>kW</b>   | <b>RPM</b> |
| 1273                     | 0.077       | 436        | 0.092       | 472        | 0.108       | 506        | 0.124       | 539        | 0.140       | 571        | 0.155       | 602        | 0.171       | 632        | 0.187       | 661        | 0.203       | 689        |
| 1330                     | 0.089       | 451        | 0.105       | 485        | 0.121       | 519        | 0.137       | 551        | 0.153       | 582        | 0.170       | 613        | 0.186       | 642        | 0.202       | 671        | 0.218       | 698        |
| 1425                     | 0.113       | 475        | 0.129       | 508        | 0.146       | 540        | 0.163       | 572        | 0.179       | 602        | 0.196       | 631        | 0.212       | 660        | 0.229       | 687        | 0.246       | 714        |
| 1520                     | 0.140       | 499        | 0.157       | 531        | 0.174       | 562        | 0.191       | 592        | 0.208       | 621        | 0.225       | 650        | 0.243       | 677        | 0.260       | 704        | 0.278       | 729        |
| 1615                     | 0.171       | 524        | 0.188       | 554        | 0.205       | 584        | 0.223       | 613        | 0.241       | 641        | 0.259       | 668        | 0.276       | 695        | 0.294       | 720        | 0.313       | 745        |



**Table 165. Unit fan performance EXVG060 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1710                     | 0.205 | 548  | 0.223 | 578  | 0.241 | 606  | 0.259 | 634  | 0.277 | 661  | 0.295 | 687  | 0.314 | 713  | 0.333 | 738  | 0.352 | 762  |
| 1805                     | 0.243 | 573  | 0.262 | 601  | 0.280 | 629  | 0.299 | 656  | 0.318 | 682  | 0.336 | 707  | 0.356 | 731  | 0.375 | 755  | 0.394 | 778  |
| 1900                     | 0.286 | 598  | 0.305 | 625  | 0.324 | 652  | 0.343 | 678  | 0.362 | 703  | 0.382 | 727  | 0.401 | 750  | 0.421 | 773  | 0.441 | 796  |
| 1995                     | 0.334 | 624  | 0.353 | 650  | 0.372 | 676  | 0.392 | 700  | 0.411 | 724  | 0.431 | 747  | 0.452 | 770  | 0.472 | 792  | 0.493 | 814  |
| 2090                     | 0.386 | 651  | 0.405 | 676  | 0.425 | 700  | 0.445 | 723  | 0.465 | 746  | 0.486 | 769  | 0.507 | 791  | 0.528 | 812  | 0.549 | 833  |
| 2280                     | 0.505 | 706  | 0.525 | 729  | 0.546 | 751  | 0.567 | 773  | 0.588 | 794  | 0.610 | 814  | 0.632 | 834  | 0.654 | 854  | 0.677 | 873  |
| 0.45                     |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       | 0.85 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.218 | 716  | 0.234 | 743  | 0.250 | 769  | 0.267 | 794  | 0.283 | 818  | 0.299 | 841  | 0.316 | 864  | 0.333 | 886  | 0.350 | 908  |
| 1330                     | 0.234 | 725  | 0.251 | 751  | 0.267 | 776  | 0.284 | 801  | 0.301 | 825  | 0.318 | 848  | 0.335 | 870  | 0.352 | 892  | 0.370 | 913  |
| 1425                     | 0.263 | 740  | 0.280 | 765  | 0.298 | 789  | 0.315 | 813  | 0.333 | 836  | 0.350 | 859  | 0.368 | 881  | 0.387 | 902  | 0.405 | 923  |
| 1520                     | 0.295 | 755  | 0.313 | 779  | 0.331 | 803  | 0.349 | 826  | 0.368 | 848  | 0.386 | 870  | 0.405 | 891  | 0.425 | 912  | 0.444 | 932  |
| 1615                     | 0.331 | 770  | 0.350 | 793  | 0.368 | 816  | 0.387 | 838  | 0.407 | 860  | 0.426 | 881  | 0.446 | 902  | 0.466 | 922  | 0.486 | 942  |
| 1710                     | 0.371 | 785  | 0.390 | 808  | 0.409 | 830  | 0.429 | 851  | 0.449 | 873  | 0.470 | 893  | 0.490 | 913  | 0.511 | 933  | 0.532 | 952  |
| 1805                     | 0.414 | 801  | 0.434 | 823  | 0.454 | 844  | 0.475 | 865  | 0.496 | 886  | 0.517 | 906  | 0.538 | 925  | 0.560 | 945  | 0.582 | 964  |
| 1900                     | 0.462 | 817  | 0.483 | 839  | 0.504 | 859  | 0.525 | 880  | 0.547 | 900  | 0.568 | 919  | 0.591 | 938  | 0.614 | 957  | 0.637 | 975  |
| 1995                     | 0.514 | 835  | 0.536 | 855  | 0.557 | 875  | 0.579 | 895  | 0.602 | 914  | 0.624 | 933  | 0.648 | 952  | 0.671 | 970  | 0.695 | 988  |
| 2090                     | 0.571 | 853  | 0.593 | 873  | 0.616 | 892  | 0.638 | 911  | 0.662 | 930  | 0.685 | 948  | 0.709 | 966  | 0.734 | 984  | 0.759 | 1002 |
| 2280                     | 0.700 | 892  | 0.723 | 910  | 0.747 | 929  | 0.771 | 946  | 0.796 | 964  | 0.821 | 981  | 0.847 | 999  | 0.873 | 1016 | 0.900 | 1033 |
| 0.90                     |       | 0.95 |       | 1.00 |       | 1.05 |       | 1.10 |       | 1.15 |       | 1.20 |       | 1.25 |       | 1.30 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.367 | 929  | 0.384 | 950  | 0.402 | 970  | 0.420 | 989  | 0.438 | 1008 | 0.457 | 1027 | 0.476 | 1046 | 0.495 | 1064 | 0.514 | 1082 |
| 1330                     | 0.387 | 934  | 0.405 | 955  | 0.424 | 974  | 0.442 | 994  | 0.461 | 1013 | 0.480 | 1031 | 0.500 | 1050 | 0.520 | 1068 | 0.540 | 1085 |
| 1425                     | 0.424 | 943  | 0.443 | 963  | 0.462 | 982  | 0.482 | 1001 | 0.502 | 1020 | 0.522 | 1038 | 0.543 | 1056 | 0.564 | 1074 | 0.585 | 1092 |
| 1520                     | 0.464 | 952  | 0.484 | 971  | 0.504 | 990  | 0.525 | 1009 | 0.546 | 1028 | 0.567 | 1046 | 0.589 | 1064 | 0.611 | 1081 | 0.634 | 1099 |
| 1615                     | 0.507 | 961  | 0.528 | 980  | 0.549 | 999  | 0.571 | 1018 | 0.593 | 1036 | 0.616 | 1054 | 0.639 | 1071 | 0.662 | 1089 | 0.686 | 1107 |
| 1710                     | 0.554 | 971  | 0.576 | 990  | 0.598 | 1009 | 0.621 | 1027 | 0.644 | 1045 | 0.668 | 1062 | 0.692 | 1080 | 0.716 | 1097 | 0.741 | 1115 |
| 1805                     | 0.605 | 982  | 0.628 | 1000 | 0.651 | 1019 | 0.675 | 1036 | 0.699 | 1054 | 0.724 | 1072 | 0.749 | 1089 | 0.775 | 1107 | 0.801 | 1124 |
| 1900                     | 0.660 | 994  | 0.684 | 1012 | 0.708 | 1029 | 0.733 | 1047 | 0.759 | 1065 | 0.784 | 1082 | 0.811 | 1099 | 0.837 | 1117 | 0.865 | 1134 |
| 1995                     | 0.720 | 1006 | 0.745 | 1024 | 0.770 | 1041 | 0.796 | 1059 | 0.822 | 1076 | 0.849 | 1093 | 0.876 | 1111 | 0.904 | 1128 | 0.933 | 1145 |
| 2090                     | 0.784 | 1019 | 0.810 | 1037 | 0.836 | 1054 | 0.863 | 1071 | 0.890 | 1088 | 0.918 | 1106 | 0.947 | 1123 | 0.976 | 1140 | 1.006 | 1158 |
| 2280                     | 0.927 | 1050 | 0.955 | 1066 | 0.983 | 1083 | 1.012 | 1100 | 1.042 | 1117 | -     | -    | -     | -    | -     | -    | -     | -    |
| 1.35                     |       | 1.40 |       | 1.45 |       | 1.50 |       | 1.55 |       | 1.60 |       |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |
| 1273                     | 0.534 | 1099 | 0.554 | 1116 | 0.575 | 1134 | 0.596 | 1151 | 0.617 | 1167 | 0.639 | 1184 |       |      |       |      |       |      |
| 1330                     | 0.561 | 1103 | 0.582 | 1120 | 0.603 | 1137 | 0.625 | 1154 | 0.647 | 1171 | 0.670 | 1188 |       |      |       |      |       |      |
| 1425                     | 0.607 | 1109 | 0.629 | 1127 | 0.652 | 1144 | 0.675 | 1161 | 0.699 | 1178 | 0.723 | 1195 |       |      |       |      |       |      |
| 1520                     | 0.657 | 1116 | 0.680 | 1134 | 0.704 | 1151 | 0.729 | 1168 | 0.754 | 1185 | -     | -    |       |      |       |      |       |      |
| 1615                     | 0.710 | 1124 | 0.735 | 1141 | 0.760 | 1159 | 0.786 | 1176 | 0.812 | 1193 | -     | -    |       |      |       |      |       |      |
| 1710                     | 0.767 | 1132 | 0.793 | 1150 | 0.819 | 1167 | 0.847 | 1184 | -     | -    | -     | -    |       |      |       |      |       |      |
| 1805                     | 0.828 | 1141 | 0.855 | 1159 | 0.883 | 1176 | 0.911 | 1194 | -     | -    | -     | -    |       |      |       |      |       |      |



## Unit Fan Performance

**Table 165. Unit fan performance EXVG060 (continued)**

| External Static Pressure |       |      |       |      |       |      |   |   |   |   |   |   |
|--------------------------|-------|------|-------|------|-------|------|---|---|---|---|---|---|
| 1900                     | 0.893 | 1152 | 0.921 | 1169 | 0.950 | 1187 | - | - | - | - | - | - |
| 1995                     | 0.962 | 1163 | 0.992 | 1180 | 1.022 | 1198 | - | - | - | - | - | - |
| 2090                     | 1.036 | 1175 | 1.067 | 1193 | -     | -    | - | - | - | - | - | - |
| 2280                     | -     | -    | -     | -    | -     | -    | - | - | - | - | - | - |

**Table 166. Unit fan performance EXVG070**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |      | 0.05  |      | 0.10  |      | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1484                     | 0.129 | 490  | 0.146 | 523  | 0.163 | 554  | 0.180 | 584  | 0.197 | 614  | 0.214 | 643  | 0.231 | 670  | 0.248 | 697  | 0.265 | 724  |
| 1551                     | 0.149 | 507  | 0.167 | 539  | 0.184 | 569  | 0.201 | 599  | 0.218 | 628  | 0.236 | 656  | 0.253 | 683  | 0.271 | 709  | 0.289 | 735  |
| 1661                     | 0.187 | 535  | 0.204 | 566  | 0.222 | 595  | 0.240 | 623  | 0.258 | 651  | 0.276 | 678  | 0.294 | 703  | 0.312 | 729  | 0.331 | 753  |
| 1772                     | 0.230 | 564  | 0.248 | 593  | 0.266 | 621  | 0.285 | 648  | 0.303 | 674  | 0.322 | 700  | 0.341 | 725  | 0.360 | 749  | 0.379 | 772  |
| 1883                     | 0.278 | 594  | 0.297 | 621  | 0.316 | 648  | 0.335 | 674  | 0.354 | 699  | 0.373 | 723  | 0.393 | 747  | 0.413 | 770  | 0.433 | 792  |
| 1994                     | 0.333 | 624  | 0.352 | 650  | 0.372 | 675  | 0.391 | 700  | 0.411 | 724  | 0.431 | 747  | 0.451 | 770  | 0.472 | 792  | 0.492 | 813  |
| 2104                     | 0.394 | 655  | 0.413 | 679  | 0.433 | 704  | 0.453 | 727  | 0.474 | 750  | 0.494 | 772  | 0.515 | 794  | 0.536 | 815  | 0.558 | 835  |
| 2215                     | 0.462 | 687  | 0.482 | 710  | 0.502 | 733  | 0.523 | 755  | 0.544 | 777  | 0.565 | 798  | 0.587 | 819  | 0.609 | 839  | 0.631 | 859  |
| 2326                     | 0.537 | 720  | 0.557 | 742  | 0.578 | 764  | 0.600 | 785  | 0.621 | 806  | 0.643 | 826  | 0.665 | 846  | 0.688 | 865  | 0.711 | 884  |
| 2437                     | 0.620 | 755  | 0.641 | 776  | 0.662 | 797  | 0.684 | 817  | 0.706 | 836  | 0.728 | 855  | 0.751 | 874  | 0.775 | 892  | 0.798 | 910  |
| 2658                     | 0.808 | 829  | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
|                          | 0.45  |      | 0.50  |      | 0.55  |      | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1484                     | 0.283 | 749  | 0.300 | 774  | 0.318 | 797  | 0.336 | 821  | 0.354 | 843  | 0.372 | 865  | 0.391 | 887  | 0.410 | 908  | 0.429 | 928  |
| 1551                     | 0.307 | 759  | 0.325 | 783  | 0.343 | 807  | 0.361 | 830  | 0.380 | 852  | 0.399 | 873  | 0.418 | 895  | 0.438 | 915  | 0.457 | 935  |
| 1661                     | 0.350 | 777  | 0.369 | 800  | 0.388 | 823  | 0.407 | 845  | 0.427 | 866  | 0.447 | 887  | 0.467 | 907  | 0.487 | 927  | 0.508 | 947  |
| 1772                     | 0.399 | 795  | 0.418 | 818  | 0.438 | 839  | 0.459 | 860  | 0.479 | 881  | 0.500 | 901  | 0.521 | 921  | 0.543 | 941  | 0.565 | 960  |
| 1883                     | 0.453 | 814  | 0.474 | 836  | 0.494 | 857  | 0.516 | 877  | 0.537 | 897  | 0.559 | 917  | 0.581 | 936  | 0.604 | 955  | 0.627 | 973  |
| 1994                     | 0.514 | 834  | 0.535 | 855  | 0.557 | 875  | 0.579 | 895  | 0.601 | 914  | 0.624 | 933  | 0.647 | 952  | 0.671 | 970  | 0.695 | 988  |
| 2104                     | 0.580 | 856  | 0.602 | 875  | 0.625 | 895  | 0.647 | 913  | 0.671 | 932  | 0.695 | 950  | 0.719 | 968  | 0.743 | 986  | 0.768 | 1004 |
| 2215                     | 0.653 | 878  | 0.676 | 897  | 0.700 | 916  | 0.724 | 934  | 0.748 | 952  | 0.772 | 969  | 0.798 | 987  | 0.823 | 1004 | 0.849 | 1022 |
| 2326                     | 0.734 | 902  | 0.758 | 920  | 0.782 | 938  | 0.807 | 956  | 0.832 | 973  | 0.858 | 990  | 0.884 | 1007 | 0.910 | 1024 | 0.937 | 1041 |
| 2437                     | 0.822 | 928  | 0.847 | 945  | 0.872 | 962  | 0.898 | 979  | 0.923 | 996  | 0.950 | 1013 | -     | -    | -     | -    | -     | -    |
| 2658                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1484                     | 0.448 | 948  | 0.468 | 968  | 0.488 | 987  | 0.508 | 1006 | 0.529 | 1025 | 0.550 | 1043 | 0.571 | 1061 | 0.593 | 1079 | 0.615 | 1096 |
| 1551                     | 0.477 | 955  | 0.498 | 974  | 0.518 | 993  | 0.539 | 1012 | 0.561 | 1030 | 0.583 | 1048 | 0.605 | 1066 | 0.627 | 1084 | 0.650 | 1101 |
| 1661                     | 0.529 | 966  | 0.551 | 985  | 0.573 | 1004 | 0.595 | 1022 | 0.617 | 1040 | 0.640 | 1058 | 0.664 | 1076 | 0.688 | 1093 | 0.712 | 1111 |
| 1772                     | 0.587 | 978  | 0.609 | 997  | 0.632 | 1015 | 0.656 | 1033 | 0.680 | 1051 | 0.704 | 1068 | 0.729 | 1086 | 0.754 | 1103 | 0.780 | 1121 |
| 1883                     | 0.650 | 991  | 0.674 | 1010 | 0.698 | 1027 | 0.723 | 1045 | 0.748 | 1063 | 0.773 | 1080 | 0.799 | 1098 | 0.826 | 1115 | 0.853 | 1132 |
| 1994                     | 0.719 | 1006 | 0.744 | 1024 | 0.769 | 1041 | 0.795 | 1058 | 0.821 | 1076 | 0.848 | 1093 | 0.876 | 1110 | 0.904 | 1128 | 0.932 | 1145 |
| 2104                     | 0.794 | 1021 | 0.820 | 1039 | 0.846 | 1056 | 0.873 | 1073 | 0.901 | 1090 | 0.929 | 1108 | 0.958 | 1125 | 0.987 | 1142 | 1.017 | 1159 |

**Table 166. Unit fan performance EXVG070 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |   |   |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|---|---|
| 2215                     | 0.876 | 1039 | 0.903 | 1056 | 0.931 | 1073 | 0.959 | 1090 | 0.988 | 1107 | 1.017 | 1124 | 1.047 | 1141 | 1.077 | 1158 | - | - |
| 2326                     | 0.965 | 1058 | 0.993 | 1074 | 1.022 | 1091 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | - | - |
| 2437                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | - | - |
| 2658                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | - | - |
|                          | 1.35  |      | 1.40  |      | 1.45  |      | 1.50  |      | 1.55  |      | 1.60  |      |       |      |       |      |   |   |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |   |   |
| 1484                     | 0.638 | 1114 | 0.661 | 1131 | 0.684 | 1148 | 0.708 | 1165 | 0.732 | 1182 | 0.757 | 1200 |       |      |       |      |   |   |
| 1551                     | 0.674 | 1119 | 0.698 | 1136 | 0.722 | 1153 | 0.747 | 1171 | 0.772 | 1188 | -     | -    |       |      |       |      |   |   |
| 1661                     | 0.737 | 1128 | 0.762 | 1145 | 0.788 | 1163 | 0.815 | 1180 | 0.842 | 1197 | -     | -    |       |      |       |      |   |   |
| 1772                     | 0.806 | 1138 | 0.833 | 1156 | 0.860 | 1173 | 0.888 | 1191 | -     | -    | -     | -    |       |      |       |      |   |   |
| 1883                     | 0.881 | 1150 | 0.909 | 1167 | 0.938 | 1185 | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |
| 1994                     | 0.961 | 1163 | 0.991 | 1180 | 1.021 | 1198 | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |
| 2104                     | 1.047 | 1177 | 1.078 | 1195 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |
| 2215                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |
| 2326                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |
| 2437                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |
| 2658                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |   |   |

**Table 167. Unit fan performance DXVG024**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.023 | 402 | 0.029 | 454 | 0.035 | 504 | 0.042 | 552 | 0.049 | 598 | 0.056 | 642  | 0.063 | 684  | 0.071 | 724  | 0.079 | 763  |
| 532                      | 0.025 | 411 | 0.031 | 463 | 0.038 | 513 | 0.045 | 560 | 0.052 | 606 | 0.059 | 649  | 0.067 | 691  | 0.075 | 731  | 0.083 | 769  |
| 570                      | 0.029 | 427 | 0.036 | 478 | 0.043 | 527 | 0.050 | 574 | 0.057 | 618 | 0.065 | 661  | 0.073 | 703  | 0.081 | 742  | 0.090 | 780  |
| 608                      | 0.034 | 442 | 0.041 | 492 | 0.048 | 541 | 0.055 | 587 | 0.063 | 631 | 0.071 | 674  | 0.080 | 714  | 0.088 | 753  | 0.097 | 791  |
| 646                      | 0.039 | 458 | 0.046 | 507 | 0.054 | 555 | 0.061 | 601 | 0.070 | 644 | 0.078 | 686  | 0.087 | 726  | 0.096 | 765  | 0.105 | 802  |
| 684                      | 0.045 | 473 | 0.052 | 522 | 0.060 | 569 | 0.068 | 614 | 0.076 | 657 | 0.085 | 699  | 0.094 | 738  | 0.104 | 776  | 0.114 | 813  |
| 722                      | 0.051 | 489 | 0.059 | 538 | 0.067 | 584 | 0.075 | 628 | 0.084 | 671 | 0.093 | 711  | 0.103 | 750  | 0.112 | 788  | 0.123 | 824  |
| 760                      | 0.058 | 505 | 0.066 | 553 | 0.074 | 598 | 0.083 | 642 | 0.092 | 684 | 0.102 | 724  | 0.111 | 763  | 0.122 | 800  | 0.132 | 835  |
| 798                      | 0.065 | 522 | 0.073 | 568 | 0.082 | 613 | 0.091 | 656 | 0.101 | 697 | 0.111 | 737  | 0.121 | 775  | 0.131 | 811  | 0.142 | 846  |
| 836                      | 0.073 | 538 | 0.082 | 584 | 0.091 | 628 | 0.100 | 670 | 0.110 | 711 | 0.120 | 750  | 0.131 | 787  | 0.142 | 823  | 0.153 | 858  |
| 912                      | 0.091 | 572 | 0.100 | 616 | 0.110 | 659 | 0.120 | 699 | 0.131 | 739 | 0.142 | 776  | 0.153 | 813  | 0.165 | 848  | 0.177 | 881  |
|                          | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |     | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 509                      | 0.087 | 800 | 0.095 | 835 | 0.104 | 869 | 0.113 | 901 | 0.121 | 932 | 0.130 | 962  | 0.139 | 991  | 0.148 | 1018 | 0.157 | 1045 |
| 532                      | 0.091 | 806 | 0.100 | 841 | 0.109 | 875 | 0.118 | 907 | 0.127 | 938 | 0.136 | 968  | 0.145 | 996  | 0.154 | 1024 | 0.164 | 1050 |
| 570                      | 0.099 | 816 | 0.108 | 851 | 0.117 | 884 | 0.126 | 916 | 0.136 | 947 | 0.145 | 977  | 0.155 | 1005 | 0.165 | 1032 | 0.175 | 1059 |
| 608                      | 0.106 | 827 | 0.116 | 861 | 0.125 | 894 | 0.135 | 926 | 0.145 | 956 | 0.155 | 986  | 0.166 | 1014 | 0.176 | 1041 | 0.187 | 1068 |
| 646                      | 0.115 | 837 | 0.125 | 871 | 0.135 | 904 | 0.145 | 935 | 0.155 | 966 | 0.166 | 995  | 0.177 | 1023 | 0.188 | 1050 | 0.199 | 1076 |
| 684                      | 0.124 | 848 | 0.134 | 881 | 0.144 | 914 | 0.155 | 945 | 0.166 | 975 | 0.177 | 1004 | 0.188 | 1032 | 0.200 | 1059 | 0.211 | 1085 |



## Unit Fan Performance

**Table 167. Unit fan performance DXVG024 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 722                      | 0.133 | 859  | 0.144 | 892  | 0.155 | 924  | 0.166 | 955  | 0.177 | 984  | 0.189 | 1013 | 0.200 | 1041 | 0.212 | 1068 | 0.225 | 1094 |
| 760                      | 0.143 | 869  | 0.154 | 902  | 0.165 | 934  | 0.177 | 964  | 0.189 | 994  | 0.201 | 1022 | 0.213 | 1050 | 0.226 | 1076 | 0.238 | 1102 |
| 798                      | 0.154 | 880  | 0.165 | 913  | 0.177 | 944  | 0.189 | 974  | 0.201 | 1003 | 0.214 | 1031 | 0.227 | 1059 | 0.240 | 1085 | 0.253 | 1111 |
| 836                      | 0.165 | 891  | 0.177 | 923  | 0.189 | 954  | 0.202 | 984  | 0.214 | 1013 | 0.227 | 1041 | 0.241 | 1068 | 0.254 | 1094 | 0.268 | 1120 |
| 912                      | 0.189 | 913  | 0.202 | 945  | 0.215 | 975  | 0.229 | 1004 | 0.243 | 1032 | 0.257 | 1059 | 0.271 | 1086 | 0.286 | 1112 | 0.300 | 1137 |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |
| 509                      | 0.167 | 1071 | 0.176 | 1096 | 0.185 | 1120 | 0.195 | 1143 | 0.204 | 1166 | 0.214 | 1188 |       |      |       |      |       |      |
| 532                      | 0.173 | 1076 | 0.183 | 1101 | 0.193 | 1125 | 0.203 | 1148 | 0.212 | 1171 | 0.222 | 1194 |       |      |       |      |       |      |
| 570                      | 0.185 | 1085 | 0.195 | 1109 | 0.206 | 1134 | 0.216 | 1157 | 0.226 | 1180 | -     | -    |       |      |       |      |       |      |
| 608                      | 0.197 | 1093 | 0.208 | 1118 | 0.219 | 1142 | 0.230 | 1166 | 0.241 | 1189 | -     | -    |       |      |       |      |       |      |
| 646                      | 0.210 | 1102 | 0.221 | 1127 | 0.233 | 1151 | 0.244 | 1174 | 0.256 | 1198 | -     | -    |       |      |       |      |       |      |
| 684                      | 0.223 | 1110 | 0.235 | 1135 | 0.247 | 1159 | 0.259 | 1183 | -     | -    | -     | -    |       |      |       |      |       |      |
| 722                      | 0.237 | 1119 | 0.249 | 1144 | 0.262 | 1168 | 0.275 | 1192 | -     | -    | -     | -    |       |      |       |      |       |      |
| 760                      | 0.251 | 1128 | 0.264 | 1152 | 0.278 | 1176 | 0.291 | 1200 | -     | -    | -     | -    |       |      |       |      |       |      |
| 798                      | 0.266 | 1136 | 0.280 | 1161 | 0.294 | 1185 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 836                      | 0.282 | 1145 | 0.296 | 1169 | 0.311 | 1194 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 912                      | 0.316 | 1162 | 0.331 | 1187 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |

**Table 168. Unit fan performance DXVG036**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     | 0.35  |     | 0.40  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 764                      | 0.045 | 369 | 0.052 | 408 | 0.060 | 445 | 0.068 | 481 | 0.077 | 516 | 0.086 | 550 | 0.096 | 583 | 0.106 | 615 | 0.117 | 646 |
| 798                      | 0.047 | 376 | 0.055 | 415 | 0.063 | 452 | 0.072 | 488 | 0.081 | 523 | 0.091 | 557 | 0.101 | 589 | 0.112 | 621 | 0.123 | 652 |
| 855                      | 0.053 | 389 | 0.061 | 427 | 0.070 | 464 | 0.079 | 500 | 0.089 | 534 | 0.100 | 568 | 0.111 | 600 | 0.122 | 632 | 0.134 | 662 |
| 912                      | 0.059 | 402 | 0.068 | 440 | 0.078 | 476 | 0.088 | 512 | 0.099 | 546 | 0.110 | 579 | 0.121 | 611 | 0.133 | 643 | 0.146 | 673 |
| 969                      | 0.066 | 415 | 0.076 | 453 | 0.086 | 489 | 0.097 | 524 | 0.109 | 558 | 0.121 | 591 | 0.133 | 623 | 0.146 | 654 | 0.159 | 684 |
| 1026                     | 0.074 | 429 | 0.085 | 466 | 0.096 | 502 | 0.108 | 537 | 0.120 | 571 | 0.132 | 603 | 0.145 | 635 | 0.159 | 665 | 0.173 | 695 |
| 1083                     | 0.084 | 443 | 0.095 | 480 | 0.107 | 516 | 0.119 | 550 | 0.132 | 583 | 0.145 | 616 | 0.159 | 647 | 0.173 | 677 | 0.188 | 707 |
| 1140                     | 0.094 | 458 | 0.106 | 494 | 0.118 | 529 | 0.131 | 563 | 0.145 | 596 | 0.159 | 628 | 0.174 | 659 | 0.189 | 690 | 0.204 | 719 |
| 1197                     | 0.105 | 472 | 0.118 | 508 | 0.131 | 543 | 0.145 | 577 | 0.159 | 610 | 0.174 | 641 | 0.189 | 672 | 0.205 | 702 | 0.221 | 731 |
| 1254                     | 0.117 | 487 | 0.131 | 523 | 0.145 | 557 | 0.160 | 591 | 0.175 | 623 | 0.190 | 655 | 0.206 | 685 | 0.223 | 714 | 0.239 | 743 |
| 1368                     | 0.146 | 518 | 0.161 | 553 | 0.176 | 586 | 0.192 | 619 | 0.209 | 651 | 0.226 | 681 | 0.243 | 711 | 0.261 | 740 | 0.279 | 767 |
|                          | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |     | 0.70  |     | 0.75  |     | 0.80  |     | 0.85  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 764                      | 0.127 | 676 | 0.139 | 705 | 0.150 | 733 | 0.162 | 760 | 0.175 | 786 | 0.187 | 812 | 0.200 | 836 | 0.213 | 860 | 0.226 | 884 |
| 798                      | 0.134 | 682 | 0.146 | 710 | 0.158 | 738 | 0.170 | 765 | 0.183 | 792 | 0.196 | 817 | 0.209 | 841 | 0.223 | 865 | 0.236 | 888 |
| 855                      | 0.146 | 692 | 0.158 | 720 | 0.171 | 748 | 0.184 | 775 | 0.198 | 801 | 0.211 | 826 | 0.225 | 850 | 0.239 | 874 | 0.254 | 897 |
| 912                      | 0.159 | 702 | 0.172 | 730 | 0.185 | 758 | 0.199 | 784 | 0.213 | 810 | 0.228 | 835 | 0.242 | 859 | 0.257 | 883 | 0.272 | 906 |
| 969                      | 0.172 | 713 | 0.186 | 741 | 0.200 | 768 | 0.215 | 795 | 0.230 | 820 | 0.245 | 845 | 0.260 | 869 | 0.276 | 892 | 0.292 | 915 |

**Table 168. Unit fan performance DXVG036 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1026                     | 0.187 | 724  | 0.202 | 752  | 0.217 | 779  | 0.232 | 805  | 0.247 | 830  | 0.263 | 855  | 0.279 | 878  | 0.296 | 902  | 0.312 | 924  |
| 1083                     | 0.203 | 735  | 0.218 | 763  | 0.234 | 790  | 0.250 | 815  | 0.266 | 840  | 0.283 | 865  | 0.299 | 888  | 0.316 | 911  | 0.334 | 933  |
| 1140                     | 0.220 | 747  | 0.236 | 774  | 0.252 | 801  | 0.269 | 826  | 0.286 | 851  | 0.303 | 875  | 0.321 | 898  | 0.338 | 921  | 0.356 | 943  |
| 1197                     | 0.238 | 759  | 0.254 | 786  | 0.272 | 812  | 0.289 | 837  | 0.307 | 862  | 0.325 | 885  | 0.343 | 909  | 0.361 | 931  | 0.380 | 953  |
| 1254                     | 0.257 | 770  | 0.274 | 797  | 0.292 | 823  | 0.310 | 848  | 0.329 | 872  | 0.347 | 896  | 0.366 | 919  | 0.385 | 941  | 0.405 | 962  |
| 1368                     | 0.298 | 794  | 0.317 | 820  | 0.336 | 846  | 0.356 | 870  | 0.376 | 894  | 0.396 | 917  | 0.417 | 939  | 0.437 | 961  | 0.458 | 982  |
|                          | 0.90  |      | 0.95  |      | 1.00  |      | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 764                      | 0.240 | 906  | 0.253 | 928  | 0.267 | 949  | 0.280 | 970  | 0.294 | 990  | 0.308 | 1009 | 0.322 | 1028 | 0.336 | 1046 | 0.350 | 1064 |
| 798                      | 0.250 | 911  | 0.264 | 933  | 0.278 | 954  | 0.292 | 974  | 0.306 | 994  | 0.321 | 1013 | 0.335 | 1032 | 0.349 | 1051 | 0.364 | 1068 |
| 855                      | 0.268 | 919  | 0.283 | 941  | 0.298 | 962  | 0.312 | 982  | 0.327 | 1002 | 0.342 | 1021 | 0.357 | 1040 | 0.372 | 1058 | 0.388 | 1076 |
| 912                      | 0.287 | 928  | 0.303 | 949  | 0.318 | 970  | 0.334 | 990  | 0.349 | 1010 | 0.365 | 1029 | 0.381 | 1048 | 0.397 | 1066 | 0.412 | 1083 |
| 969                      | 0.307 | 937  | 0.324 | 958  | 0.340 | 978  | 0.356 | 999  | 0.372 | 1018 | 0.389 | 1037 | 0.405 | 1056 | 0.422 | 1074 | 0.438 | 1091 |
| 1026                     | 0.329 | 946  | 0.345 | 967  | 0.362 | 987  | 0.379 | 1007 | 0.396 | 1026 | 0.414 | 1045 | 0.431 | 1064 | 0.448 | 1082 | 0.465 | 1099 |
| 1083                     | 0.351 | 955  | 0.368 | 976  | 0.386 | 996  | 0.404 | 1016 | 0.422 | 1035 | 0.439 | 1054 | 0.457 | 1072 | 0.475 | 1090 | 0.493 | 1107 |
| 1140                     | 0.374 | 964  | 0.392 | 985  | 0.411 | 1005 | 0.429 | 1025 | 0.448 | 1044 | 0.466 | 1062 | 0.485 | 1080 | 0.503 | 1098 | 0.522 | 1115 |
| 1197                     | 0.399 | 974  | 0.418 | 994  | 0.437 | 1014 | 0.456 | 1034 | 0.475 | 1053 | 0.494 | 1071 | 0.514 | 1089 | 0.533 | 1106 | 0.552 | 1124 |
| 1254                     | 0.424 | 983  | 0.444 | 1004 | 0.464 | 1023 | 0.484 | 1043 | 0.503 | 1061 | 0.523 | 1079 | 0.543 | 1097 | 0.563 | 1115 | 0.583 | 1132 |
| 1368                     | 0.479 | 1002 | 0.500 | 1022 | 0.521 | 1042 | 0.542 | 1060 | 0.564 | 1079 | 0.585 | 1097 | 0.607 | 1114 | 0.628 | 1131 | -     | -    |
|                          | 1.35  |      | 1.40  |      | 1.45  |      | 1.50  |      | 1.55  |      | 1.60  |      | 1.65  |      | 1.70  |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |
| 764                      | 0.364 | 1082 | 0.378 | 1099 | 0.391 | 1116 | 0.405 | 1132 | 0.419 | 1148 | 0.432 | 1164 | 0.445 | 1180 | 0.458 | 1195 |       |      |
| 798                      | 0.378 | 1086 | 0.392 | 1103 | 0.406 | 1120 | 0.420 | 1136 | 0.434 | 1152 | 0.448 | 1168 | 0.462 | 1184 | 0.475 | 1199 |       |      |
| 855                      | 0.403 | 1093 | 0.417 | 1110 | 0.432 | 1127 | 0.447 | 1143 | 0.462 | 1159 | 0.476 | 1175 | 0.49  | 1191 | -     | -    |       |      |
| 912                      | 0.428 | 1101 | 0.444 | 1118 | 0.459 | 1134 | 0.475 | 1151 | 0.490 | 1167 | 0.505 | 1182 | 0.52  | 1198 | -     | -    |       |      |
| 969                      | 0.455 | 1108 | 0.471 | 1125 | 0.487 | 1142 | 0.503 | 1158 | 0.519 | 1174 | 0.535 | 1190 | -     | -    | -     | -    |       |      |
| 1026                     | 0.482 | 1116 | 0.499 | 1133 | 0.516 | 1150 | 0.533 | 1166 | 0.550 | 1182 | 0.566 | 1197 | -     | -    | -     | -    |       |      |
| 1083                     | 0.511 | 1124 | 0.528 | 1141 | 0.546 | 1157 | 0.564 | 1173 | 0.581 | 1189 | -     | -    | -     | -    | -     | -    |       |      |
| 1140                     | 0.540 | 1132 | 0.559 | 1149 | 0.577 | 1165 | 0.595 | 1181 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |
| 1197                     | 0.571 | 1140 | 0.590 | 1157 | 0.609 | 1173 | 0.628 | 1189 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |
| 1254                     | 0.603 | 1148 | 0.623 | 1165 | 0.643 | 1181 | 0.663 | 1196 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |
| 1368                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |

**Table 169. Unit fan performance DXVG048**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     | 0.35  |     | 0.40  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1018                     | 0.117 | 456 | 0.124 | 473 | 0.131 | 492 | 0.139 | 514 | 0.147 | 537 | 0.156 | 561 | 0.165 | 587 | 0.174 | 613 | 0.184 | 640 |
| 1064                     | 0.118 | 461 | 0.126 | 478 | 0.134 | 497 | 0.143 | 519 | 0.152 | 542 | 0.161 | 566 | 0.171 | 592 | 0.181 | 618 | 0.192 | 646 |
| 1140                     | 0.122 | 470 | 0.131 | 487 | 0.140 | 507 | 0.150 | 528 | 0.160 | 551 | 0.171 | 576 | 0.182 | 601 | 0.193 | 628 | 0.205 | 655 |
| 1216                     | 0.128 | 480 | 0.138 | 497 | 0.148 | 517 | 0.159 | 538 | 0.170 | 561 | 0.182 | 585 | 0.194 | 611 | 0.207 | 638 | 0.220 | 665 |



## Unit Fan Performance

**Table 169. Unit fan performance DXVG048 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1292                     | 0.135 | 491  | 0.146 | 508  | 0.158 | 527  | 0.170 | 548  | 0.182 | 571  | 0.195 | 596  | 0.209 | 622  | 0.223 | 648  | 0.237 | 675  |
| 1368                     | 0.144 | 501  | 0.156 | 518  | 0.169 | 537  | 0.182 | 559  | 0.196 | 582  | 0.210 | 606  | 0.225 | 632  | 0.240 | 659  | 0.255 | 686  |
| 1444                     | 0.154 | 511  | 0.168 | 528  | 0.182 | 548  | 0.196 | 569  | 0.211 | 592  | 0.227 | 617  | 0.242 | 642  | 0.258 | 669  | 0.275 | 696  |
| 1520                     | 0.167 | 521  | 0.181 | 538  | 0.197 | 558  | 0.212 | 579  | 0.228 | 602  | 0.245 | 627  | 0.262 | 652  | 0.279 | 679  | 0.297 | 706  |
| 1596                     | 0.180 | 530  | 0.196 | 547  | 0.213 | 566  | 0.229 | 588  | 0.247 | 611  | 0.264 | 635  | 0.282 | 661  | 0.301 | 688  | 0.320 | 715  |
| 1672                     | 0.196 | 538  | 0.213 | 555  | 0.231 | 574  | 0.249 | 595  | 0.267 | 619  | 0.286 | 643  | 0.305 | 669  | 0.325 | 695  | 0.345 | 722  |
| 1824                     | 0.232 | 548  | 0.251 | 565  | 0.271 | 585  | 0.292 | 606  | 0.312 | 629  | 0.334 | 654  | 0.355 | 679  | 0.377 | 706  | 0.400 | 733  |
| 0.45                     |       | 0.50 |       | 0.55 |       | 0.60 |       | 0.65 |       | 0.70 |       | 0.75 |       | 0.80 |       | 0.85 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1018                     | 0.195 | 668  | 0.206 | 696  | 0.217 | 723  | 0.229 | 751  | 0.241 | 778  | 0.253 | 805  | 0.266 | 831  | 0.280 | 857  | 0.294 | 881  |
| 1064                     | 0.203 | 673  | 0.214 | 701  | 0.226 | 728  | 0.239 | 756  | 0.252 | 783  | 0.265 | 810  | 0.279 | 836  | 0.293 | 862  | 0.307 | 887  |
| 1140                     | 0.217 | 682  | 0.230 | 710  | 0.243 | 738  | 0.257 | 765  | 0.271 | 792  | 0.285 | 819  | 0.300 | 845  | 0.316 | 871  | 0.331 | 896  |
| 1216                     | 0.234 | 692  | 0.247 | 720  | 0.262 | 748  | 0.277 | 775  | 0.292 | 802  | 0.308 | 829  | 0.324 | 855  | 0.340 | 881  | 0.357 | 906  |
| 1292                     | 0.251 | 703  | 0.267 | 730  | 0.282 | 758  | 0.298 | 786  | 0.314 | 813  | 0.331 | 840  | 0.349 | 866  | 0.366 | 891  | 0.384 | 916  |
| 1368                     | 0.271 | 713  | 0.287 | 741  | 0.304 | 769  | 0.321 | 796  | 0.339 | 823  | 0.357 | 850  | 0.375 | 876  | 0.394 | 902  | 0.413 | 927  |
| 1444                     | 0.292 | 723  | 0.310 | 751  | 0.327 | 779  | 0.346 | 806  | 0.365 | 834  | 0.384 | 860  | 0.403 | 887  | 0.424 | 912  | 0.444 | 937  |
| 1520                     | 0.315 | 733  | 0.334 | 761  | 0.353 | 789  | 0.372 | 816  | 0.392 | 843  | 0.413 | 870  | 0.433 | 896  | 0.455 | 922  | 0.476 | 947  |
| 1596                     | 0.339 | 742  | 0.359 | 770  | 0.380 | 798  | 0.400 | 825  | 0.421 | 852  | 0.443 | 879  | 0.465 | 905  | 0.487 | 931  | 0.510 | 956  |
| 1672                     | 0.366 | 750  | 0.387 | 777  | 0.408 | 805  | 0.430 | 833  | 0.452 | 860  | 0.475 | 887  | 0.498 | 913  | 0.522 | 938  | 0.546 | 963  |
| 1824                     | 0.423 | 760  | 0.446 | 788  | 0.470 | 816  | 0.494 | 843  | 0.519 | 871  | 0.544 | 897  | 0.570 | 924  | 0.596 | 949  | 0.622 | 974  |
| 0.90                     |       | 0.95 |       | 1.00 |       | 1.05 |       | 1.10 |       | 1.15 |       | 1.20 |       | 1.25 |       | 1.30 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1018                     | 0.308 | 905  | 0.323 | 928  | 0.338 | 951  | 0.354 | 972  | 0.370 | 992  | 0.386 | 1012 | 0.403 | 1030 | 0.420 | 1048 | 0.438 | 1065 |
| 1064                     | 0.322 | 910  | 0.338 | 934  | 0.354 | 956  | 0.370 | 977  | 0.387 | 997  | 0.404 | 1017 | 0.422 | 1036 | 0.440 | 1053 | 0.458 | 1071 |
| 1140                     | 0.348 | 920  | 0.364 | 943  | 0.381 | 965  | 0.399 | 986  | 0.417 | 1007 | 0.435 | 1026 | 0.454 | 1045 | 0.473 | 1063 | 0.493 | 1080 |
| 1216                     | 0.375 | 930  | 0.392 | 953  | 0.411 | 975  | 0.429 | 996  | 0.448 | 1017 | 0.468 | 1036 | 0.488 | 1055 | 0.509 | 1073 | 0.529 | 1090 |
| 1292                     | 0.403 | 940  | 0.422 | 963  | 0.442 | 985  | 0.461 | 1007 | 0.482 | 1027 | 0.503 | 1046 | 0.524 | 1065 | 0.545 | 1083 | 0.567 | 1100 |
| 1368                     | 0.433 | 951  | 0.453 | 974  | 0.474 | 996  | 0.495 | 1017 | 0.517 | 1037 | 0.539 | 1057 | 0.561 | 1076 | 0.584 | 1093 | 0.607 | 1111 |
| 1444                     | 0.465 | 961  | 0.486 | 984  | 0.508 | 1006 | 0.531 | 1027 | 0.553 | 1048 | 0.576 | 1067 | 0.600 | 1086 | 0.624 | 1104 | 0.648 | 1121 |
| 1520                     | 0.499 | 971  | 0.521 | 994  | 0.544 | 1016 | 0.568 | 1037 | 0.591 | 1058 | 0.616 | 1077 | 0.641 | 1096 | 0.666 | 1114 | 0.691 | 1131 |
| 1596                     | 0.534 | 980  | 0.557 | 1003 | 0.582 | 1025 | 0.606 | 1046 | 0.631 | 1066 | 0.657 | 1086 | 0.683 | 1105 | 0.709 | 1122 | 0.736 | 1140 |
| 1672                     | 0.571 | 987  | 0.595 | 1010 | 0.621 | 1032 | 0.647 | 1054 | 0.673 | 1074 | 0.700 | 1094 | 0.727 | 1112 | 0.754 | 1130 | 0.782 | 1147 |
| 1824                     | 0.649 | 998  | 0.676 | 1021 | 0.704 | 1043 | 0.732 | 1064 | 0.761 | 1085 | 0.790 | 1104 | -     | -    | -     | -    | -     | -    |
| 1.35                     |       | 1.40 |       | 1.45 |       | 1.50 |       | 1.55 |       | 1.60 |       | 1.65 |       | 1.70 |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |
| 1018                     | 0.456 | 1082 | 0.475 | 1098 | 0.494 | 1114 | 0.514 | 1129 | 0.534 | 1144 | 0.554 | 1160 | 0.575 | 1176 | 0.596 | 1192 |       |      |
| 1064                     | 0.477 | 1087 | 0.497 | 1103 | 0.517 | 1119 | 0.537 | 1134 | 0.557 | 1149 | 0.579 | 1165 | 0.6   | 1181 | 0.622 | 1197 |       |      |
| 1140                     | 0.513 | 1096 | 0.534 | 1112 | 0.555 | 1128 | 0.576 | 1143 | 0.598 | 1159 | 0.620 | 1174 | 0.643 | 1190 | -     | -    |       |      |
| 1216                     | 0.551 | 1106 | 0.572 | 1122 | 0.595 | 1138 | 0.617 | 1153 | 0.640 | 1169 | 0.664 | 1184 | 0.688 | 1200 | -     | -    |       |      |
| 1292                     | 0.590 | 1117 | 0.613 | 1133 | 0.636 | 1148 | 0.660 | 1164 | 0.684 | 1179 | 0.709 | 1194 | -     | -    | -     | -    |       |      |
| 1368                     | 0.631 | 1127 | 0.655 | 1143 | 0.679 | 1159 | 0.704 | 1174 | 0.730 | 1190 | -     | -    | -     | -    | -     | -    |       |      |

**Table 169. Unit fan performance DXVG048 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |   |   |   |   |   |   |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|---|---|---|---|---|---|
| 1444                     | 0.673 | 1137 | 0.699 | 1153 | 0.724 | 1169 | 0.751 | 1185 | 0.777 | 1200 | - | - | - | - | - | - |
| 1520                     | 0.717 | 1147 | 0.744 | 1163 | 0.771 | 1179 | 0.798 | 1194 | -     | -    | - | - | - | - | - | - |
| 1596                     | 0.763 | 1156 | 0.791 | 1172 | 0.819 | 1188 | -     | -    | -     | -    | - | - | - | - | - | - |
| 1672                     | 0.811 | 1164 | 0.840 | 1180 | 0.869 | 1195 | -     | -    | -     | -    | - | - | - | - | - | - |
| 1824                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | - | - | - | - | - | - |

**Table 170. Unit fan performance DXVG060**

| External Static Pressure |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |      | 0.20  |      | 0.25  |      | 0.30  |      | 0.35  |      | 0.40  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.077 | 436 | 0.092 | 472 | 0.108 | 506 | 0.124 | 539  | 0.140 | 571  | 0.155 | 602  | 0.171 | 632  | 0.187 | 661  | 0.203 | 689  |
| 1330                     | 0.089 | 451 | 0.105 | 485 | 0.121 | 519 | 0.137 | 551  | 0.153 | 582  | 0.170 | 613  | 0.186 | 642  | 0.202 | 671  | 0.218 | 698  |
| 1425                     | 0.113 | 475 | 0.129 | 508 | 0.146 | 540 | 0.163 | 572  | 0.179 | 602  | 0.196 | 631  | 0.212 | 660  | 0.229 | 687  | 0.246 | 714  |
| 1520                     | 0.140 | 499 | 0.157 | 531 | 0.174 | 562 | 0.191 | 592  | 0.208 | 621  | 0.225 | 650  | 0.243 | 677  | 0.260 | 704  | 0.278 | 729  |
| 1615                     | 0.171 | 524 | 0.188 | 554 | 0.205 | 584 | 0.223 | 613  | 0.241 | 641  | 0.259 | 668  | 0.276 | 695  | 0.294 | 720  | 0.313 | 745  |
| 1710                     | 0.205 | 548 | 0.223 | 578 | 0.241 | 606 | 0.259 | 634  | 0.277 | 661  | 0.295 | 687  | 0.314 | 713  | 0.333 | 738  | 0.352 | 762  |
| 1805                     | 0.243 | 573 | 0.262 | 601 | 0.280 | 629 | 0.299 | 656  | 0.318 | 682  | 0.336 | 707  | 0.356 | 731  | 0.375 | 755  | 0.394 | 778  |
| 1900                     | 0.286 | 598 | 0.305 | 625 | 0.324 | 652 | 0.343 | 678  | 0.362 | 703  | 0.382 | 727  | 0.401 | 750  | 0.421 | 773  | 0.441 | 796  |
| 1995                     | 0.334 | 624 | 0.353 | 650 | 0.372 | 676 | 0.392 | 700  | 0.411 | 724  | 0.431 | 747  | 0.452 | 770  | 0.472 | 792  | 0.493 | 814  |
| 2090                     | 0.386 | 651 | 0.405 | 676 | 0.425 | 700 | 0.445 | 723  | 0.465 | 746  | 0.486 | 769  | 0.507 | 791  | 0.528 | 812  | 0.549 | 833  |
| 2280                     | 0.505 | 706 | 0.525 | 729 | 0.546 | 751 | 0.567 | 773  | 0.588 | 794  | 0.610 | 814  | 0.632 | 834  | 0.654 | 854  | 0.677 | 873  |
|                          | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |      | 0.65  |      | 0.70  |      | 0.75  |      | 0.80  |      | 0.85  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.218 | 716 | 0.234 | 743 | 0.250 | 769 | 0.267 | 794  | 0.283 | 818  | 0.299 | 841  | 0.316 | 864  | 0.333 | 886  | 0.350 | 908  |
| 1330                     | 0.234 | 725 | 0.251 | 751 | 0.267 | 776 | 0.284 | 801  | 0.301 | 825  | 0.318 | 848  | 0.335 | 870  | 0.352 | 892  | 0.370 | 913  |
| 1425                     | 0.263 | 740 | 0.280 | 765 | 0.298 | 789 | 0.315 | 813  | 0.333 | 836  | 0.350 | 859  | 0.368 | 881  | 0.387 | 902  | 0.405 | 923  |
| 1520                     | 0.295 | 755 | 0.313 | 779 | 0.331 | 803 | 0.349 | 826  | 0.368 | 848  | 0.386 | 870  | 0.405 | 891  | 0.425 | 912  | 0.444 | 932  |
| 1615                     | 0.331 | 770 | 0.350 | 793 | 0.368 | 816 | 0.387 | 838  | 0.407 | 860  | 0.426 | 881  | 0.446 | 902  | 0.466 | 922  | 0.486 | 942  |
| 1710                     | 0.371 | 785 | 0.390 | 808 | 0.409 | 830 | 0.429 | 851  | 0.449 | 873  | 0.470 | 893  | 0.490 | 913  | 0.511 | 933  | 0.532 | 952  |
| 1805                     | 0.414 | 801 | 0.434 | 823 | 0.454 | 844 | 0.475 | 865  | 0.496 | 886  | 0.517 | 906  | 0.538 | 925  | 0.560 | 945  | 0.582 | 964  |
| 1900                     | 0.462 | 817 | 0.483 | 839 | 0.504 | 859 | 0.525 | 880  | 0.547 | 900  | 0.568 | 919  | 0.591 | 938  | 0.614 | 957  | 0.637 | 975  |
| 1995                     | 0.514 | 835 | 0.536 | 855 | 0.557 | 875 | 0.579 | 895  | 0.602 | 914  | 0.624 | 933  | 0.648 | 952  | 0.671 | 970  | 0.695 | 988  |
| 2090                     | 0.571 | 853 | 0.593 | 873 | 0.616 | 892 | 0.638 | 911  | 0.662 | 930  | 0.685 | 948  | 0.709 | 966  | 0.734 | 984  | 0.759 | 1002 |
| 2280                     | 0.700 | 892 | 0.723 | 910 | 0.747 | 929 | 0.771 | 946  | 0.796 | 964  | 0.821 | 981  | 0.847 | 999  | 0.873 | 1016 | 0.900 | 1033 |
|                          | 0.90  |     | 0.95  |     | 1.00  |     | 1.05  |      | 1.10  |      | 1.15  |      | 1.20  |      | 1.25  |      | 1.30  |      |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1273                     | 0.367 | 929 | 0.384 | 950 | 0.402 | 970 | 0.420 | 989  | 0.438 | 1008 | 0.457 | 1027 | 0.476 | 1046 | 0.495 | 1064 | 0.514 | 1082 |
| 1330                     | 0.387 | 934 | 0.405 | 955 | 0.424 | 974 | 0.442 | 994  | 0.461 | 1013 | 0.480 | 1031 | 0.500 | 1050 | 0.520 | 1068 | 0.540 | 1085 |
| 1425                     | 0.424 | 943 | 0.443 | 963 | 0.462 | 982 | 0.482 | 1001 | 0.502 | 1020 | 0.522 | 1038 | 0.543 | 1056 | 0.564 | 1074 | 0.585 | 1092 |
| 1520                     | 0.464 | 952 | 0.484 | 971 | 0.504 | 990 | 0.525 | 1009 | 0.546 | 1028 | 0.567 | 1046 | 0.589 | 1064 | 0.611 | 1081 | 0.634 | 1099 |
| 1615                     | 0.507 | 961 | 0.528 | 980 | 0.549 | 999 | 0.571 | 1018 | 0.593 | 1036 | 0.616 | 1054 | 0.639 | 1071 | 0.662 | 1089 | 0.686 | 1107 |



## Unit Fan Performance

**Table 170. Unit fan performance DXVG060 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1710                     | 0.554 | 971  | 0.576 | 990  | 0.598 | 1009 | 0.621 | 1027 | 0.644 | 1045 | 0.668 | 1062 | 0.692 | 1080 | 0.716 | 1097 | 0.741 | 1115 |
| 1805                     | 0.605 | 982  | 0.628 | 1000 | 0.651 | 1019 | 0.675 | 1036 | 0.699 | 1054 | 0.724 | 1072 | 0.749 | 1089 | 0.775 | 1107 | 0.801 | 1124 |
| 1900                     | 0.660 | 994  | 0.684 | 1012 | 0.708 | 1029 | 0.733 | 1047 | 0.759 | 1065 | 0.784 | 1082 | 0.811 | 1099 | 0.837 | 1117 | 0.865 | 1134 |
| 1995                     | 0.720 | 1006 | 0.745 | 1024 | 0.770 | 1041 | 0.796 | 1059 | 0.822 | 1076 | 0.849 | 1093 | 0.876 | 1111 | 0.904 | 1128 | 0.933 | 1145 |
| 2090                     | 0.784 | 1019 | 0.810 | 1037 | 0.836 | 1054 | 0.863 | 1071 | 0.890 | 1088 | 0.918 | 1106 | 0.947 | 1123 | 0.976 | 1140 | 1.006 | 1158 |
| 2280                     | 0.927 | 1050 | 0.955 | 1066 | 0.983 | 1083 | 1.012 | 1100 | 1.042 | 1117 | -     | -    | -     | -    | -     | -    | -     | -    |
|                          | 1.35  |      | 1.40  |      | 1.45  |      | 1.50  |      | 1.55  |      | 1.60  |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |
| 1273                     | 0.534 | 1099 | 0.554 | 1116 | 0.575 | 1134 | 0.596 | 1151 | 0.617 | 1167 | 0.639 | 1184 |       |      |       |      |       |      |
| 1330                     | 0.561 | 1103 | 0.582 | 1120 | 0.603 | 1137 | 0.625 | 1154 | 0.647 | 1171 | 0.670 | 1188 |       |      |       |      |       |      |
| 1425                     | 0.607 | 1109 | 0.629 | 1127 | 0.652 | 1144 | 0.675 | 1161 | 0.699 | 1178 | 0.723 | 1195 |       |      |       |      |       |      |
| 1520                     | 0.657 | 1116 | 0.680 | 1134 | 0.704 | 1151 | 0.729 | 1168 | 0.754 | 1185 | -     | -    |       |      |       |      |       |      |
| 1615                     | 0.710 | 1124 | 0.735 | 1141 | 0.760 | 1159 | 0.786 | 1176 | 0.812 | 1193 | -     | -    |       |      |       |      |       |      |
| 1710                     | 0.767 | 1132 | 0.793 | 1150 | 0.819 | 1167 | 0.847 | 1184 | -     | -    | -     | -    |       |      |       |      |       |      |
| 1805                     | 0.828 | 1141 | 0.855 | 1159 | 0.883 | 1176 | 0.911 | 1194 | -     | -    | -     | -    |       |      |       |      |       |      |
| 1900                     | 0.893 | 1152 | 0.921 | 1169 | 0.950 | 1187 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 1995                     | 0.962 | 1163 | 0.992 | 1180 | 1.022 | 1198 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2090                     | 1.036 | 1175 | 1.067 | 1193 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2280                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |

**Table 171. Unit fan performance DXVG070**

| External Static Pressure |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                          | 0.00  |     | 0.05  |     | 0.10  |     | 0.15  |     | 0.20  |     | 0.25  |     | 0.30  |     | 0.35  |     | 0.40  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1484                     | 0.129 | 490 | 0.146 | 523 | 0.163 | 554 | 0.180 | 584 | 0.197 | 614 | 0.214 | 643 | 0.231 | 670 | 0.248 | 697 | 0.265 | 724 |
| 1551                     | 0.149 | 507 | 0.167 | 539 | 0.184 | 569 | 0.201 | 599 | 0.218 | 628 | 0.236 | 656 | 0.253 | 683 | 0.271 | 709 | 0.289 | 735 |
| 1661                     | 0.187 | 535 | 0.204 | 566 | 0.222 | 595 | 0.240 | 623 | 0.258 | 651 | 0.276 | 678 | 0.294 | 703 | 0.312 | 729 | 0.331 | 753 |
| 1772                     | 0.230 | 564 | 0.248 | 593 | 0.266 | 621 | 0.285 | 648 | 0.303 | 674 | 0.322 | 700 | 0.341 | 725 | 0.360 | 749 | 0.379 | 772 |
| 1883                     | 0.278 | 594 | 0.297 | 621 | 0.316 | 648 | 0.335 | 674 | 0.354 | 699 | 0.373 | 723 | 0.393 | 747 | 0.413 | 770 | 0.433 | 792 |
| 1994                     | 0.333 | 624 | 0.352 | 650 | 0.372 | 675 | 0.391 | 700 | 0.411 | 724 | 0.431 | 747 | 0.451 | 770 | 0.472 | 792 | 0.492 | 813 |
| 2104                     | 0.394 | 655 | 0.413 | 679 | 0.433 | 704 | 0.453 | 727 | 0.474 | 750 | 0.494 | 772 | 0.515 | 794 | 0.536 | 815 | 0.558 | 835 |
| 2215                     | 0.462 | 687 | 0.482 | 710 | 0.502 | 733 | 0.523 | 755 | 0.544 | 777 | 0.565 | 798 | 0.587 | 819 | 0.609 | 839 | 0.631 | 859 |
| 2326                     | 0.537 | 720 | 0.557 | 742 | 0.578 | 764 | 0.600 | 785 | 0.621 | 806 | 0.643 | 826 | 0.665 | 846 | 0.688 | 865 | 0.711 | 884 |
| 2437                     | 0.620 | 755 | 0.641 | 776 | 0.662 | 797 | 0.684 | 817 | 0.706 | 836 | 0.728 | 855 | 0.751 | 874 | 0.775 | 892 | 0.798 | 910 |
| 2658                     | 0.808 | 829 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
|                          | 0.45  |     | 0.50  |     | 0.55  |     | 0.60  |     | 0.65  |     | 0.70  |     | 0.75  |     | 0.80  |     | 0.85  |     |
| CFM                      | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM | kW    | RPM |
| 1484                     | 0.283 | 749 | 0.300 | 774 | 0.318 | 797 | 0.336 | 821 | 0.354 | 843 | 0.372 | 865 | 0.391 | 887 | 0.410 | 908 | 0.429 | 928 |
| 1551                     | 0.307 | 759 | 0.325 | 783 | 0.343 | 807 | 0.361 | 830 | 0.380 | 852 | 0.399 | 873 | 0.418 | 895 | 0.438 | 915 | 0.457 | 935 |
| 1661                     | 0.350 | 777 | 0.369 | 800 | 0.388 | 823 | 0.407 | 845 | 0.427 | 866 | 0.447 | 887 | 0.467 | 907 | 0.487 | 927 | 0.508 | 947 |
| 1772                     | 0.399 | 795 | 0.418 | 818 | 0.438 | 839 | 0.459 | 860 | 0.479 | 881 | 0.500 | 901 | 0.521 | 921 | 0.543 | 941 | 0.565 | 960 |



**Table 171. Unit fan performance DXVG070 (continued)**

| External Static Pressure |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 1883                     | 0.453 | 814  | 0.474 | 836  | 0.494 | 857  | 0.516 | 877  | 0.537 | 897  | 0.559 | 917  | 0.581 | 936  | 0.604 | 955  | 0.627 | 973  |
| 1994                     | 0.514 | 834  | 0.535 | 855  | 0.557 | 875  | 0.579 | 895  | 0.601 | 914  | 0.624 | 933  | 0.647 | 952  | 0.671 | 970  | 0.695 | 988  |
| 2104                     | 0.580 | 856  | 0.602 | 875  | 0.625 | 895  | 0.647 | 913  | 0.671 | 932  | 0.695 | 950  | 0.719 | 968  | 0.743 | 986  | 0.768 | 1004 |
| 2215                     | 0.653 | 878  | 0.676 | 897  | 0.700 | 916  | 0.724 | 934  | 0.748 | 952  | 0.772 | 969  | 0.798 | 987  | 0.823 | 1004 | 0.849 | 1022 |
| 2326                     | 0.734 | 902  | 0.758 | 920  | 0.782 | 938  | 0.807 | 956  | 0.832 | 973  | 0.858 | 990  | 0.884 | 1007 | 0.910 | 1024 | 0.937 | 1041 |
| 2437                     | 0.822 | 928  | 0.847 | 945  | 0.872 | 962  | 0.898 | 979  | 0.923 | 996  | 0.950 | 1013 | -     | -    | -     | -    | -     | -    |
| 2658                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 0.90                     |       | 0.95 |       | 1.00 |       | 1.05 |       | 1.10 |       | 1.15 |       | 1.20 |       | 1.25 |       | 1.30 |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |
| 1484                     | 0.448 | 948  | 0.468 | 968  | 0.488 | 987  | 0.508 | 1006 | 0.529 | 1025 | 0.550 | 1043 | 0.571 | 1061 | 0.593 | 1079 | 0.615 | 1096 |
| 1551                     | 0.477 | 955  | 0.498 | 974  | 0.518 | 993  | 0.539 | 1012 | 0.561 | 1030 | 0.583 | 1048 | 0.605 | 1066 | 0.627 | 1084 | 0.650 | 1101 |
| 1661                     | 0.529 | 966  | 0.551 | 985  | 0.573 | 1004 | 0.595 | 1022 | 0.617 | 1040 | 0.640 | 1058 | 0.664 | 1076 | 0.688 | 1093 | 0.712 | 1111 |
| 1772                     | 0.587 | 978  | 0.609 | 997  | 0.632 | 1015 | 0.656 | 1033 | 0.680 | 1051 | 0.704 | 1068 | 0.729 | 1086 | 0.754 | 1103 | 0.780 | 1121 |
| 1883                     | 0.650 | 991  | 0.674 | 1010 | 0.698 | 1027 | 0.723 | 1045 | 0.748 | 1063 | 0.773 | 1080 | 0.799 | 1098 | 0.826 | 1115 | 0.853 | 1132 |
| 1994                     | 0.719 | 1006 | 0.744 | 1024 | 0.769 | 1041 | 0.795 | 1058 | 0.821 | 1076 | 0.848 | 1093 | 0.876 | 1110 | 0.904 | 1128 | 0.932 | 1145 |
| 2104                     | 0.794 | 1021 | 0.820 | 1039 | 0.846 | 1056 | 0.873 | 1073 | 0.901 | 1090 | 0.929 | 1108 | 0.958 | 1125 | 0.987 | 1142 | 1.017 | 1159 |
| 2215                     | 0.876 | 1039 | 0.903 | 1056 | 0.931 | 1073 | 0.959 | 1090 | 0.988 | 1107 | 1.017 | 1124 | 1.047 | 1141 | 1.077 | 1158 | -     | -    |
| 2326                     | 0.965 | 1058 | 0.993 | 1074 | 1.022 | 1091 | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 2437                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 2658                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |
| 1.35                     |       | 1.40 |       | 1.45 |       | 1.50 |       | 1.55 |       | 1.60 |       |      |       |      |       |      |       |      |
| CFM                      | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  | kW    | RPM  |       |      |       |      |       |      |
| 1484                     | 0.638 | 1114 | 0.661 | 1131 | 0.684 | 1148 | 0.708 | 1165 | 0.732 | 1182 | 0.757 | 1200 |       |      |       |      |       |      |
| 1551                     | 0.674 | 1119 | 0.698 | 1136 | 0.722 | 1153 | 0.747 | 1171 | 0.772 | 1188 | -     | -    |       |      |       |      |       |      |
| 1661                     | 0.737 | 1128 | 0.762 | 1145 | 0.788 | 1163 | 0.815 | 1180 | 0.842 | 1197 | -     | -    |       |      |       |      |       |      |
| 1772                     | 0.806 | 1138 | 0.833 | 1156 | 0.860 | 1173 | 0.888 | 1191 | -     | -    | -     | -    |       |      |       |      |       |      |
| 1883                     | 0.881 | 1150 | 0.909 | 1167 | 0.938 | 1185 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 1994                     | 0.961 | 1163 | 0.991 | 1180 | 1.021 | 1198 | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2104                     | 1.047 | 1177 | 1.078 | 1195 | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2215                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2326                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2437                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |
| 2658                     | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    |       |      |       |      |       |      |

**Table 172. Added pressure drop through optional filters (inches water column), 0.5 to 6 tons, EXH\*006-070**

| Model No. | CFM | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|-----|-----------|-----------|-----------|-----------|
| EXHF006   | 172 | 0.03      | 0.04      | N/A       | N/A       |
| EXHF006   | 194 | 0.04      | 0.04      | N/A       | N/A       |
| EXHF006   | 215 | 0.04      | 0.05      | N/A       | N/A       |
| EXHF006   | 237 | 0.05      | 0.06      | N/A       | N/A       |
| EXHF009   | 228 | 0.05      | 0.05      | N/A       | N/A       |



## Unit Fan Performance

**Table 172. Added pressure drop through optional filters (inches water column), 0.5 to 6 tons, EXH\*006-070 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| EXHF009   | 257  | 0.05      | 0.06      | N/A       | N/A       |
| EXHF009   | 285  | 0.06      | 0.07      | N/A       | N/A       |
| EXHF009   | 314  | 0.07      | 0.08      | N/A       | N/A       |
| EXHF012   | 304  | 0.07      | 0.07      | N/A       | N/A       |
| EXHF012   | 342  | 0.08      | 0.09      | N/A       | N/A       |
| EXHF012   | 380  | 0.09      | 0.10      | N/A       | N/A       |
| EXHF012   | 418  | 0.10      | 0.11      | N/A       | N/A       |
| EXHF015   | 380  | 0.09      | 0.10      | N/A       | N/A       |
| EXHF015   | 428  | 0.10      | 0.11      | N/A       | N/A       |
| EXHF015   | 475  | 0.11      | 0.13      | N/A       | N/A       |
| EXHF015   | 523  | 0.13      | 0.15      | N/A       | N/A       |
| EXHF018   | 456  | 0.07      | 0.08      | N/A       | N/A       |
| EXHF018   | 513  | 0.08      | 0.09      | N/A       | N/A       |
| EXHF018   | 570  | 0.09      | 0.10      | N/A       | N/A       |
| EXHF018   | 627  | 0.10      | 0.12      | N/A       | N/A       |
| EXHF024   | 608  | 0.10      | 0.11      | N/A       | N/A       |
| EXHF024   | 684  | 0.11      | 0.13      | N/A       | N/A       |
| EXHF024   | 760  | 0.13      | 0.15      | N/A       | N/A       |
| EXHF024   | 836  | 0.14      | 0.17      | N/A       | N/A       |
| EXHF030   | 760  | 0.11      | 0.11      | N/A       | N/A       |
| EXHF030   | 855  | 0.13      | 0.15      | N/A       | N/A       |
| EXHF030   | 950  | 0.15      | 0.17      | N/A       | N/A       |
| EXHF030   | 1045 | 0.17      | 0.20      | N/A       | N/A       |
| EXHF036   | 1026 | 0.16      | 0.19      | N/A       | N/A       |
| EXHF036   | 1140 | 0.19      | 0.22      | N/A       | N/A       |
| EXHF036   | 1254 | 0.21      | 0.26      | N/A       | N/A       |
| EXHF036   | 912  | 0.00      | 0.14      | N/A       | N/A       |
| EXHF042   | 1064 | 0.12      | 0.14      | N/A       | N/A       |
| EXHF042   | 1197 | 0.14      | 0.17      | N/A       | N/A       |
| EXHF042   | 1330 | 0.16      | 0.19      | N/A       | N/A       |
| EXHF042   | 1463 | 0.18      | 0.22      | N/A       | N/A       |
| EXHF048   | 1216 | 0.15      | 0.17      | N/A       | N/A       |
| EXHF048   | 1368 | 0.17      | 0.20      | N/A       | N/A       |
| EXHF048   | 1520 | 0.19      | 0.23      | N/A       | N/A       |
| EXHF048   | 1672 | 0.22      | 0.26      | N/A       | N/A       |
| EXHF060   | 1360 | 0.17      | 0.20      | N/A       | N/A       |
| EXHF060   | 1530 | 0.19      | 0.23      | N/A       | N/A       |
| EXHF060   | 1700 | 0.22      | 0.27      | N/A       | N/A       |
| EXHF060   | 1870 | 0.25      | 0.31      | N/A       | N/A       |
| EXHF070   | 1672 | 0.22      | 0.26      | N/A       | N/A       |

**Table 172. Added pressure drop through optional filters (inches water column), 0.5 to 6 tons, EXH\*006-070 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| EXHF070   | 1881 | 0.25      | 0.31      | N/A       | N/A       |
| EXHF070   | 2090 | 0.29      | 0.36      | N/A       | N/A       |
| EXHF070   | 2299 | 0.33      | 0.42      | N/A       | N/A       |
| EXVG009   | 228  | 0.04      | 0.06      | 0.02      | 0.05      |
| EXVG009   | 242  | 0.04      | 0.07      | 0.02      | 0.05      |
| EXVG009   | 257  | 0.04      | 0.07      | 0.02      | 0.05      |
| EXVG009   | 271  | 0.05      | 0.08      | 0.02      | 0.06      |
| EXVG009   | 285  | 0.05      | 0.08      | 0.03      | 0.06      |
| EXVG009   | 299  | 0.05      | 0.09      | 0.03      | 0.06      |
| EXVG009   | 314  | 0.06      | 0.09      | 0.03      | 0.06      |
| EXVG009   | 328  | 0.06      | 0.10      | 0.03      | 0.07      |
| EXVG009   | 342  | 0.06      | 0.10      | 0.03      | 0.07      |
| EXVG012   | 304  | 0.05      | 0.09      | 0.03      | 0.06      |
| EXVG012   | 323  | 0.06      | 0.09      | 0.03      | 0.07      |
| EXVG012   | 342  | 0.06      | 0.10      | 0.03      | 0.07      |
| EXVG012   | 361  | 0.07      | 0.11      | 0.04      | 0.07      |
| EXVG012   | 380  | 0.07      | 0.11      | 0.04      | 0.08      |
| EXVG012   | 399  | 0.08      | 0.12      | 0.04      | 0.08      |
| EXVG012   | 418  | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG012   | 437  | 0.09      | 0.13      | 0.05      | 0.09      |
| EXVG012   | 456  | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG015   | 380  | 0.06      | 0.10      | 0.03      | 0.07      |
| EXVG015   | 404  | 0.07      | 0.10      | 0.03      | 0.07      |
| EXVG015   | 428  | 0.07      | 0.11      | 0.04      | 0.08      |
| EXVG015   | 451  | 0.07      | 0.12      | 0.04      | 0.08      |
| EXVG015   | 475  | 0.08      | 0.12      | 0.04      | 0.09      |
| EXVG015   | 499  | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG015   | 523  | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG015   | 546  | 0.09      | 0.15      | 0.06      | 0.10      |
| EXVG015   | 570  | 0.10      | 0.15      | 0.06      | 0.11      |
| EXVG018   | 456  | 0.05      | 0.08      | 0.03      | 0.06      |
| EXVG018   | 485  | 0.06      | 0.09      | 0.03      | 0.06      |
| EXVG018   | 513  | 0.06      | 0.10      | 0.03      | 0.07      |
| EXVG018   | 542  | 0.06      | 0.10      | 0.03      | 0.07      |
| EXVG018   | 570  | 0.07      | 0.11      | 0.04      | 0.07      |
| EXVG018   | 599  | 0.07      | 0.11      | 0.04      | 0.08      |
| EXVG018   | 627  | 0.08      | 0.12      | 0.04      | 0.08      |
| EXVG018   | 656  | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG018   | 684  | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG024   | 608  | 0.07      | 0.12      | 0.04      | 0.08      |



## Unit Fan Performance

**Table 172. Added pressure drop through optional filters (inches water column), 0.5 to 6 tons, EXH\*006-070 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| EXVG024   | 646  | 0.08      | 0.12      | 0.04      | 0.09      |
| EXVG024   | 684  | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG024   | 722  | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG024   | 760  | 0.10      | 0.15      | 0.06      | 0.11      |
| EXVG024   | 798  | 0.10      | 0.16      | 0.06      | 0.11      |
| EXVG024   | 836  | 0.11      | 0.17      | 0.07      | 0.12      |
| EXVG024   | 874  | 0.11      | 0.18      | 0.07      | 0.13      |
| EXVG024   | 912  | 0.12      | 0.19      | 0.08      | 0.14      |
| EXVG030   | 760  | 0.07      | 0.11      | 0.04      | 0.08      |
| EXVG030   | 808  | 0.08      | 0.12      | 0.04      | 0.08      |
| EXVG030   | 855  | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG030   | 903  | 0.09      | 0.14      | 0.05      | 0.09      |
| EXVG030   | 950  | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG030   | 998  | 0.10      | 0.15      | 0.06      | 0.11      |
| EXVG030   | 1045 | 0.10      | 0.16      | 0.06      | 0.11      |
| EXVG030   | 1093 | 0.11      | 0.17      | 0.07      | 0.12      |
| EXVG030   | 1140 | 0.11      | 0.18      | 0.07      | 0.13      |
| EXVG036   | 912  | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG036   | 969  | 0.09      | 0.15      | 0.06      | 0.10      |
| EXVG036   | 1026 | 0.10      | 0.16      | 0.06      | 0.11      |
| EXVG036   | 1083 | 0.11      | 0.17      | 0.07      | 0.12      |
| EXVG036   | 1140 | 0.11      | 0.18      | 0.07      | 0.13      |
| EXVG036   | 1197 | 0.12      | 0.19      | 0.08      | 0.14      |
| EXVG036   | 1254 | 0.13      | 0.20      | 0.09      | 0.15      |
| EXVG036   | 1311 | 0.13      | 0.21      | 0.09      | 0.16      |
| EXVG036   | 1368 | 0.14      | 0.23      | 0.10      | 0.17      |
| EXVG042   | 1064 | 0.07      | 0.12      | 0.04      | 0.08      |
| EXVG042   | 1131 | 0.08      | 0.12      | 0.04      | 0.09      |
| EXVG042   | 1197 | 0.08      | 0.13      | 0.05      | 0.09      |
| EXVG042   | 1264 | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG042   | 1330 | 0.10      | 0.15      | 0.06      | 0.11      |
| EXVG042   | 1397 | 0.10      | 0.16      | 0.06      | 0.11      |
| EXVG042   | 1463 | 0.11      | 0.17      | 0.07      | 0.12      |
| EXVG042   | 1530 | 0.11      | 0.18      | 0.07      | 0.13      |
| EXVG042   | 1596 | 0.12      | 0.19      | 0.08      | 0.14      |
| EXVG048   | 1216 | 0.09      | 0.13      | 0.05      | 0.09      |
| EXVG048   | 1292 | 0.09      | 0.15      | 0.05      | 0.10      |
| EXVG048   | 1368 | 0.10      | 0.16      | 0.06      | 0.11      |
| EXVG048   | 1444 | 0.10      | 0.17      | 0.07      | 0.12      |
| EXVG048   | 1520 | 0.11      | 0.18      | 0.07      | 0.13      |

**Table 172. Added pressure drop through optional filters (inches water column), 0.5 to 6 tons, EXH\*006-070 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| EXVG048   | 1596 | 0.12      | 0.19      | 0.08      | 0.14      |
| EXVG048   | 1672 | 0.12      | 0.20      | 0.08      | 0.15      |
| EXVG048   | 1748 | 0.13      | 0.21      | 0.09      | 0.16      |
| EXVG048   | 1824 | 0.14      | 0.22      | 0.10      | 0.17      |
| EXVG060   | 1520 | 0.09      | 0.14      | 0.05      | 0.10      |
| EXVG060   | 1615 | 0.09      | 0.15      | 0.06      | 0.11      |
| EXVG060   | 1710 | 0.10      | 0.16      | 0.06      | 0.11      |
| EXVG060   | 1805 | 0.11      | 0.17      | 0.07      | 0.12      |
| EXVG060   | 1900 | 0.11      | 0.18      | 0.07      | 0.13      |
| EXVG060   | 1995 | 0.12      | 0.19      | 0.08      | 0.14      |
| EXVG060   | 2090 | 0.13      | 0.21      | 0.09      | 0.15      |
| EXVG060   | 2185 | 0.13      | 0.22      | 0.09      | 0.16      |
| EXVG060   | 2280 | 0.14      | 0.23      | 0.10      | 0.17      |
| EXVG070   | 1772 | 0.11      | 0.17      | 0.07      | 0.12      |
| EXVG070   | 1883 | 0.11      | 0.18      | 0.07      | 0.13      |
| EXVG070   | 1994 | 0.12      | 0.19      | 0.08      | 0.14      |
| EXVG070   | 2104 | 0.13      | 0.21      | 0.09      | 0.15      |
| EXVG070   | 2215 | 0.14      | 0.22      | 0.10      | 0.16      |
| EXVG070   | 2326 | 0.14      | 0.24      | 0.10      | 0.18      |
| EXVG070   | 2437 | 0.15      | 0.25      | 0.11      | 0.19      |
| EXVG070   | 2547 | 0.16      | 0.26      | 0.12      | 0.20      |
| EXVG070   | 2658 | 0.17      | 0.28      | 0.13      | 0.22      |

**Table 173. Added pressure drop through optional filters (inches water column), 2 to 6 tons, DX\*024-070**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| DXHF024   | 608  | 0.10      | 0.11      | N/A       | N/A       |
| DXHF024   | 684  | 0.11      | 0.13      | N/A       | N/A       |
| DXHF024   | 760  | 0.13      | 0.15      | N/A       | N/A       |
| DXHF024   | 836  | 0.14      | 0.17      | N/A       | N/A       |
| DXHF036   | 1026 | 0.16      | 0.19      | N/A       | N/A       |
| DXHF036   | 1140 | 0.19      | 0.22      | N/A       | N/A       |
| DXHF036   | 1254 | 0.21      | 0.26      | N/A       | N/A       |
| DXHF036   | 912  | 0.00      | 0.14      | N/A       | N/A       |
| DXHF048   | 1216 | 0.15      | 0.17      | N/A       | N/A       |
| DXHF048   | 1368 | 0.17      | 0.20      | N/A       | N/A       |
| DXHF048   | 1520 | 0.19      | 0.23      | N/A       | N/A       |
| DXHF048   | 1672 | 0.22      | 0.26      | N/A       | N/A       |
| DXHF060   | 1360 | 0.17      | 0.20      | N/A       | N/A       |
| DXHF060   | 1530 | 0.19      | 0.23      | N/A       | N/A       |
| DXHF060   | 1700 | 0.22      | 0.27      | N/A       | N/A       |
| DXHF060   | 1870 | 0.25      | 0.31      | N/A       | N/A       |



## Unit Fan Performance

**Table 173. Added pressure drop through optional filters (inches water column), 2 to 6 tons, DX\*024-070 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| DXHF070   | 1672 | 0.22      | 0.26      | N/A       | N/A       |
| DXHF070   | 1881 | 0.25      | 0.31      | N/A       | N/A       |
| DXHF070   | 2090 | 0.29      | 0.36      | N/A       | N/A       |
| DXHF070   | 2299 | 0.33      | 0.42      | N/A       | N/A       |
| DXVG024   | 608  | 0.07      | 0.12      | 0.04      | 0.08      |
| DXVG024   | 646  | 0.08      | 0.12      | 0.04      | 0.09      |
| DXVG024   | 684  | 0.08      | 0.13      | 0.05      | 0.09      |
| DXVG024   | 722  | 0.09      | 0.14      | 0.05      | 0.10      |
| DXVG024   | 760  | 0.10      | 0.15      | 0.06      | 0.11      |
| DXVG024   | 798  | 0.10      | 0.16      | 0.06      | 0.11      |
| DXVG024   | 836  | 0.11      | 0.17      | 0.07      | 0.12      |
| DXVG024   | 874  | 0.11      | 0.18      | 0.07      | 0.13      |
| DXVG024   | 912  | 0.12      | 0.19      | 0.08      | 0.14      |
| DXVG036   | 912  | 0.09      | 0.14      | 0.05      | 0.10      |
| DXVG036   | 969  | 0.09      | 0.15      | 0.06      | 0.10      |
| DXVG036   | 1026 | 0.10      | 0.16      | 0.06      | 0.11      |
| DXVG036   | 1083 | 0.11      | 0.17      | 0.07      | 0.12      |
| DXVG036   | 1140 | 0.11      | 0.18      | 0.07      | 0.13      |
| DXVG036   | 1197 | 0.12      | 0.19      | 0.08      | 0.14      |
| DXVG036   | 1254 | 0.13      | 0.20      | 0.09      | 0.15      |
| DXVG036   | 1311 | 0.13      | 0.21      | 0.09      | 0.16      |
| DXVG036   | 1368 | 0.14      | 0.23      | 0.10      | 0.17      |
| DXVG048   | 1216 | 0.09      | 0.13      | 0.05      | 0.09      |
| DXVG048   | 1292 | 0.09      | 0.15      | 0.05      | 0.10      |
| DXVG048   | 1368 | 0.10      | 0.16      | 0.06      | 0.11      |
| DXVG048   | 1444 | 0.10      | 0.17      | 0.07      | 0.12      |
| DXVG048   | 1520 | 0.11      | 0.18      | 0.07      | 0.13      |
| DXVG048   | 1596 | 0.12      | 0.19      | 0.08      | 0.14      |
| DXVG048   | 1672 | 0.12      | 0.20      | 0.08      | 0.15      |
| DXVG048   | 1748 | 0.13      | 0.21      | 0.09      | 0.16      |
| DXVG048   | 1824 | 0.14      | 0.22      | 0.10      | 0.17      |
| DXVG060   | 1520 | 0.09      | 0.14      | 0.05      | 0.10      |
| DXVG060   | 1615 | 0.09      | 0.15      | 0.06      | 0.11      |
| DXVG060   | 1710 | 0.10      | 0.16      | 0.06      | 0.11      |
| DXVG060   | 1805 | 0.11      | 0.17      | 0.07      | 0.12      |
| DXVG060   | 1900 | 0.11      | 0.18      | 0.07      | 0.13      |
| DXVG060   | 1995 | 0.12      | 0.19      | 0.08      | 0.14      |
| DXVG060   | 2090 | 0.13      | 0.21      | 0.09      | 0.15      |
| DXVG060   | 2185 | 0.13      | 0.22      | 0.09      | 0.16      |
| DXVG060   | 2280 | 0.14      | 0.23      | 0.10      | 0.17      |
| DXVG070   | 1772 | 0.11      | 0.17      | 0.07      | 0.12      |

**Table 173. Added pressure drop through optional filters (inches water column), 2 to 6 tons, DX\*024-070 (continued)**

| Model No. | CFM  | 2" MERV 8 | 2" MERV13 | 4" MERV 8 | 4" MERV13 |
|-----------|------|-----------|-----------|-----------|-----------|
| DXVG070   | 1883 | 0.11      | 0.18      | 0.07      | 0.13      |
| DXVG070   | 1994 | 0.12      | 0.19      | 0.08      | 0.14      |
| DXVG070   | 2104 | 0.13      | 0.21      | 0.09      | 0.15      |
| DXVG070   | 2215 | 0.14      | 0.22      | 0.10      | 0.16      |
| DXVG070   | 2326 | 0.14      | 0.24      | 0.10      | 0.18      |
| DXVG070   | 2437 | 0.15      | 0.25      | 0.11      | 0.19      |
| DXVG070   | 2547 | 0.16      | 0.26      | 0.12      | 0.20      |
| DXVG070   | 2658 | 0.17      | 0.28      | 0.13      | 0.22      |

**Table 174. Waterside economizer performance 0.5 to 6 tons, EXH\*006-070**

| Unit Model Number | scfm | GPM  | Output Data          |                         |                  |                  |                        |                       |                   |
|-------------------|------|------|----------------------|-------------------------|------------------|------------------|------------------------|-----------------------|-------------------|
|                   |      |      | Total capacity (Mbh) | Sensible capacity (Mbh) | LVG. air DB (°F) | LVG. air WB (°F) | Standard APD (in. wg.) | LVG. fluid temp. (°F) | Fluid PD (FT H2O) |
| EXHF006           | 215  | 1.5  | 7.24                 | 5.34                    | 57.4             | 56.2             | 0.04                   | 54.6                  | 0.21              |
| EXHF006           | 215  | 1.8  | 7.60                 | 5.49                    | 56.8             | 55.6             | 0.04                   | 53.4                  | 0.28              |
| EXHF006           | 215  | 2.0  | 7.80                 | 5.57                    | 56.4             | 55.3             | 0.04                   | 52.8                  | 0.33              |
| EXHF009           | 285  | 1.7  | 8.39                 | 6.54                    | 59.1             | 57.7             | 0.06                   | 54.8                  | 0.25              |
| EXHF009           | 285  | 2.1  | 8.90                 | 6.76                    | 58.4             | 57.1             | 0.06                   | 53.4                  | 0.38              |
| EXHF009           | 285  | 2.3  | 9.18                 | 6.88                    | 58.0             | 56.7             | 0.06                   | 52.9                  | 0.45              |
| EXHF012           | 380  | 2.2  | 10.08                | 8.21                    | 60.4             | 58.7             | 0.10                   | 54.1                  | 0.42              |
| EXHF012           | 380  | 2.8  | 11.23                | 8.71                    | 59.1             | 57.7             | 0.10                   | 53.0                  | 0.63              |
| EXHF012           | 380  | 3.1  | 11.76                | 8.93                    | 58.6             | 57.2             | 0.10                   | 52.5                  | 0.75              |
| EXHF015           | 460  | 2.8  | 12.06                | 9.84                    | 60.6             | 58.8             | 0.13                   | 53.6                  | 0.63              |
| EXHF015           | 460  | 3.5  | 13.39                | 10.39                   | 59.4             | 57.8             | 0.14                   | 52.6                  | 0.92              |
| EXHF015           | 460  | 3.8  | 13.88                | 10.60                   | 59.0             | 57.4             | 0.14                   | 52.3                  | 1.06              |
| EXHF018           | 570  | 3.3  | 16.29                | 12.85                   | 59.5             | 58.0             | 0.08                   | 54.8                  | 0.68              |
| EXHF018           | 570  | 4.2  | 18.29                | 13.71                   | 58.1             | 56.8             | 0.08                   | 53.7                  | 1.03              |
| EXHF018           | 570  | 4.6  | 19.06                | 14.05                   | 57.6             | 56.3             | 0.08                   | 53.2                  | 1.21              |
| EXHF024           | 760  | 4.5  | 21.11                | 16.78                   | 59.9             | 58.3             | 0.13                   | 54.3                  | 1.16              |
| EXHF024           | 760  | 5.6  | 23.44                | 17.75                   | 58.7             | 57.2             | 0.13                   | 53.3                  | 1.75              |
| EXHF024           | 760  | 6.2  | 24.48                | 18.20                   | 58.2             | 56.7             | 0.13                   | 52.9                  | 2.13              |
| EXHF030           | 950  | 5.6  | 27.40                | 21.39                   | 59.5             | 57.9             | 0.14                   | 54.7                  | 2.04              |
| EXHF030           | 950  | 7.0  | 30.33                | 22.63                   | 58.3             | 56.8             | 0.14                   | 53.6                  | 3.17              |
| EXHF030           | 950  | 7.7  | 31.50                | 23.16                   | 57.8             | 56.4             | 0.14                   | 53.1                  | 3.82              |
| EXHF036           | 1140 | 6.7  | 31.98                | 25.11                   | 60.0             | 58.2             | 0.19                   | 54.5                  | 2.90              |
| EXHF036           | 1140 | 8.4  | 35.27                | 26.51                   | 58.8             | 57.2             | 0.19                   | 53.4                  | 4.54              |
| EXHF036           | 1140 | 9.2  | 36.50                | 27.06                   | 58.4             | 56.8             | 0.19                   | 52.9                  | 5.43              |
| EXHF042           | 1330 | 7.8  | 34.80                | 28.33                   | 60.6             | 58.8             | 0.16                   | 53.9                  | 1.09              |
| EXHF042           | 1330 | 9.8  | 39.10                | 30.10                   | 59.4             | 57.7             | 0.16                   | 52.9                  | 1.70              |
| EXHF042           | 1330 | 10.8 | 40.85                | 30.84                   | 58.9             | 57.2             | 0.16                   | 52.5                  | 2.06              |
| EXHF048           | 1520 | 9.0  | 39.36                | 32.00                   | 60.8             | 58.9             | 0.20                   | 53.7                  | 1.44              |
| EXHF048           | 1520 | 11.2 | 43.82                | 33.86                   | 59.7             | 57.9             | 0.20                   | 52.8                  | 2.21              |



## Unit Fan Performance

**Table 174. Waterside economizer performance 0.5 to 6 tons, EXH\*006-070 (continued)**

| Unit Model Number | scfm | GPM  | Output Data          |                         |                  |                  |                        |                       |                   |
|-------------------|------|------|----------------------|-------------------------|------------------|------------------|------------------------|-----------------------|-------------------|
|                   |      |      | Total capacity (Mbh) | Sensible capacity (Mbh) | LVG. air DB (°F) | LVG. air WB (°F) | Standard APD (in. wg.) | LVG. fluid temp. (°F) | Fluid PD (FT H2O) |
| EXHF048           | 1520 | 12.3 | 45.63                | 34.63                   | 59.2             | 57.5             | 0.20                   | 52.4                  | 2.66              |
| EXHF060           | 1900 | 11.2 | 47.57                | 38.66                   | 61.5             | 59.2             | 0.29                   | 53.5                  | 2.21              |
| EXHF060           | 1900 | 14.0 | 52.69                | 41.02                   | 60.3             | 58.3             | 0.29                   | 52.5                  | 3.44              |
| EXHF060           | 1900 | 15.4 | 54.74                | 41.91                   | 59.9             | 57.9             | 0.29                   | 52.1                  | 4.15              |
| EXHF070           | 2090 | 12.3 | 51.48                | 41.83                   | 61.8             | 59.3             | 0.33                   | 53.3                  | 2.66              |
| EXHF070           | 2090 | 15.4 | 56.87                | 44.43                   | 60.7             | 58.5             | 0.33                   | 52.4                  | 4.15              |
| EXHF070           | 2090 | 16.9 | 58.95                | 45.34                   | 60.2             | 58.1             | 0.33                   | 52.0                  | 4.99              |

Note: Entering air DB/WB (80/67). Entering fluid (°F) 45.

**Table 175. Waterside economizer performance 0.75 to 6 tons, EXVG\*009-070**

| MODEL   | Airside |                 | Waterside |     |               | Cooling Capacity |                |
|---------|---------|-----------------|-----------|-----|---------------|------------------|----------------|
|         | CFM     | APD (in. w. g.) | GPM       | EWT | WPD (ft. hd.) | Total Mbtuh      | Sensible Mbtuh |
| EXVG009 | 285     | 0.05            | 2.3       | 45  | 1.02          | 9.8              | 7.3            |
|         |         |                 |           | 50  | 1.01          | 7.5              | 6.5            |
|         |         |                 |           | 55  | 1.01          | 5.8              | 5.5            |
|         |         |                 |           | 60  | 1.00          | 4.5              | 4.4            |
|         |         |                 |           | 65  | 0.98          | 3.4              | 3.4            |
|         |         |                 |           | 70  | 0.97          | 2.2              | 2.2            |
| EXVG012 | 380     | 0.07            | 3.0       | 45  | 1.67          | 12.2             | 9.3            |
|         |         |                 |           | 50  | 1.65          | 9.3              | 8.3            |
|         |         |                 |           | 55  | 1.62          | 7.4              | 7.1            |
|         |         |                 |           | 60  | 1.59          | 5.8              | 5.7            |
|         |         |                 |           | 65  | 1.57          | 4.3              | 4.3            |
|         |         |                 |           | 70  | 1.55          | 2.9              | 2.9            |
| EXVG015 | 475     | 0.08            | 3.8       | 45  | 2.45          | 15.4             | 11.7           |
|         |         |                 |           | 50  | 2.41          | 11.8             | 10.4           |
|         |         |                 |           | 55  | 2.39          | 9.3              | 8.8            |
|         |         |                 |           | 60  | 2.36          | 7.3              | 7.2            |
|         |         |                 |           | 65  | 2.34          | 5.4              | 5.3            |
|         |         |                 |           | 70  | 2.33          | 3.6              | 3.6            |
| EXVG018 | 570     | 0.07            | 4.5       | 45  | 2.31          | 19.4             | 14.6           |
|         |         |                 |           | 50  | 2.26          | 14.9             | 13.0           |
|         |         |                 |           | 55  | 2.23          | 11.7             | 11.1           |
|         |         |                 |           | 60  | 2.20          | 9.1              | 8.9            |
|         |         |                 |           | 65  | 2.18          | 6.7              | 6.6            |
|         |         |                 |           | 70  | 2.17          | 4.5              | 4.5            |



**Table 175. Waterside economizer performance 0.75 to 6 tons, EXVG\*009-070 (continued)**

| MODEL   | Airside |                 | Waterside |     |               | Cooling Capacity |                |
|---------|---------|-----------------|-----------|-----|---------------|------------------|----------------|
|         | CFM     | APD (in. w. g.) | GPM       | EWT | WPD (ft. hd.) | Total Mbtuh      | Sensible Mbtuh |
| EXVG024 | 760     | 0.11            | 6.0       | 45  | 3.87          | 24.9             | 18.9           |
|         |         |                 |           | 50  | 3.86          | 19.0             | 16.7           |
|         |         |                 |           | 55  | 3.85          | 14.9             | 14.2           |
|         |         |                 |           | 60  | 3.84          | 11.7             | 11.5           |
|         |         |                 |           | 65  | 3.83          | 8.7              | 8.6            |
|         |         |                 |           | 70  | 3.82          | 5.8              | 5.8            |
| EXVG030 | 950     | 0.10            | 7.5       | 45  | 2.31          | 29.8             | 22.9           |
|         |         |                 |           | 50  | 2.28          | 22.9             | 20.6           |
|         |         |                 |           | 55  | 2.26          | 18.2             | 17.5           |
|         |         |                 |           | 60  | 2.25          | 14.3             | 14.0           |
|         |         |                 |           | 65  | 2.24          | 10.7             | 10.6           |
|         |         |                 |           | 70  | 2.23          | 7.1              | 7.1            |
| EXVG036 | 1140    | 0.13            | 9.0       | 45  | 3.24          | 35.0             | 27.3           |
|         |         |                 |           | 50  | 3.23          | 26.7             | 24.3           |
|         |         |                 |           | 55  | 3.22          | 21.2             | 20.6           |
|         |         |                 |           | 60  | 3.21          | 16.7             | 16.4           |
|         |         |                 |           | 65  | 3.21          | 12.5             | 12.4           |
|         |         |                 |           | 70  | 3.20          | 8.4              | 8.4            |
| EXVG042 | 1330    | 0.11            | 10.5      | 45  | 2.52          | 41.3             | 32.2           |
|         |         |                 |           | 50  | 2.50          | 31.6             | 28.4           |
|         |         |                 |           | 55  | 2.49          | 25.1             | 24.3           |
|         |         |                 |           | 60  | 2.47          | 19.7             | 19.3           |
|         |         |                 |           | 65  | 2.46          | 14.7             | 14.6           |
|         |         |                 |           | 70  | 2.46          | 9.9              | 9.9            |
| EXVG048 | 1520    | 0.13            | 12.0      | 45  | 3.24          | 46.4             | 36.2           |
|         |         |                 |           | 50  | 3.23          | 35.4             | 32.2           |
|         |         |                 |           | 55  | 3.22          | 28.1             | 27.3           |
|         |         |                 |           | 60  | 3.21          | 22.1             | 21.7           |
|         |         |                 |           | 65  | 3.21          | 16.6             | 16.4           |
|         |         |                 |           | 70  | 3.20          | 11.1             | 11.1           |
| EXVG060 | 1900    | 0.14            | 15.0      | 45  | 3.58          | 58.3             | 45.5           |
|         |         |                 |           | 50  | 3.57          | 44.4             | 40.0           |
|         |         |                 |           | 55  | 3.56          | 35.2             | 34.1           |
|         |         |                 |           | 60  | 3.56          | 27.7             | 27.1           |
|         |         |                 |           | 65  | 3.55          | 20.7             | 20.5           |
|         |         |                 |           | 70  | 3.55          | 13.9             | 13.9           |



## Unit Fan Performance

**Table 175. Waterside economizer performance 0.75 to 6 tons, EXVG\*009-070 (continued)**

| MODEL   | Airside |                 | Waterside |     |               | Cooling Capacity |                |
|---------|---------|-----------------|-----------|-----|---------------|------------------|----------------|
|         | CFM     | APD (in. w. g.) | GPM       | EWT | WPD (ft. hd.) | Total Mbtuh      | Sensible Mbtuh |
| EXVG070 | 2215    | 0.17            | 17.5      | 45  | 4.86          | 66.5             | 51.9           |
|         |         |                 |           | 50  | 4.84          | 50.4             | 45.9           |
|         |         |                 |           | 55  | 4.84          | 39.9             | 38.7           |
|         |         |                 |           | 60  | 4.83          | 31.4             | 30.8           |
|         |         |                 |           | 65  | 4.82          | 23.6             | 23.4           |
|         |         |                 |           | 70  | 4.82          | 15.8             | 15.8           |

**Notes:**

1. The waterside pressure drops shown only account for the waterside economizer coil.
2. The airside pressure drop shown only accounts for the waterside economizer coil with a wet coil.
3. Capacity is at rated airflow at 80°F/67°F entering air temperature.

**Table 176. Waterside economizer performance 2 to 6 tons, DXH\*024-070**

| Unit Model Number | scfm | GPM  | Output Data          |                         |                  |                  |                        |                       |                   |
|-------------------|------|------|----------------------|-------------------------|------------------|------------------|------------------------|-----------------------|-------------------|
|                   |      |      | Total capacity (Mbh) | Sensible capacity (Mbh) | LVG. air DB (°F) | LVG. air WB (°F) | Standard APD (in. wg.) | LVG. fluid temp. (°F) | Fluid PD (FT H2O) |
| DXHF024           | 760  | 4.5  | 21.11                | 16.78                   | 59.9             | 58.3             | 0.13                   | 54.3                  | 1.16              |
| DXHF024           | 760  | 5.6  | 23.44                | 17.75                   | 58.7             | 57.2             | 0.13                   | 53.3                  | 1.75              |
| DXHF024           | 760  | 6.2  | 24.48                | 18.20                   | 58.2             | 56.7             | 0.13                   | 52.9                  | 2.13              |
| DXHF036           | 1140 | 6.7  | 31.98                | 25.11                   | 60.0             | 58.2             | 0.19                   | 54.5                  | 2.90              |
| DXHF036           | 1140 | 8.4  | 35.27                | 26.51                   | 58.8             | 57.2             | 0.19                   | 53.4                  | 4.54              |
| DXHF036           | 1140 | 9.2  | 36.50                | 27.06                   | 58.4             | 56.8             | 0.19                   | 52.9                  | 5.43              |
| DXHF048           | 1520 | 9.0  | 39.36                | 32.00                   | 60.8             | 58.9             | 0.20                   | 53.7                  | 1.44              |
| DXHF048           | 1520 | 11.2 | 43.82                | 33.86                   | 59.7             | 57.9             | 0.20                   | 52.8                  | 2.21              |
| DXHF048           | 1520 | 12.3 | 45.63                | 34.63                   | 59.2             | 57.5             | 0.20                   | 52.4                  | 2.66              |
| DXHF060           | 1900 | 11.2 | 47.57                | 38.66                   | 61.5             | 59.2             | 0.29                   | 53.5                  | 2.21              |
| DXHF060           | 1900 | 14.0 | 52.69                | 41.02                   | 60.3             | 58.3             | 0.29                   | 52.5                  | 3.44              |
| DXHF060           | 1900 | 15.4 | 54.74                | 41.91                   | 59.9             | 57.9             | 0.29                   | 52.1                  | 4.15              |
| DXHF070           | 2090 | 12.3 | 51.48                | 41.83                   | 61.8             | 59.3             | 0.33                   | 53.3                  | 2.66              |
| DXHF070           | 2090 | 15.4 | 56.87                | 44.43                   | 60.7             | 58.5             | 0.33                   | 52.4                  | 4.15              |
| DXHF070           | 2090 | 16.9 | 58.95                | 45.34                   | 60.2             | 58.1             | 0.33                   | 52.0                  | 4.99              |

**Note:** Entering air DB/WB (80/67). Entering fluid (°F) 45.

**Table 177. Waterside economizer performance 2 to 6 tons, DXVG\*024-070**

| MODEL   | Airside |                 | Waterside |     |               | Cooling Capacity |                |
|---------|---------|-----------------|-----------|-----|---------------|------------------|----------------|
|         | CFM     | APD (in. w. g.) | GPM       | EWT | WPD (ft. hd.) | Total Mbtuh      | Sensible Mbtuh |
| DXVG024 | 760     | 0.11            | 6.0       | 45  | 3.87          | 24.9             | 18.9           |
|         |         |                 |           | 50  | 3.86          | 19.0             | 16.7           |
|         |         |                 |           | 55  | 3.85          | 14.9             | 14.2           |
|         |         |                 |           | 60  | 3.84          | 11.7             | 11.5           |
|         |         |                 |           | 65  | 3.83          | 8.7              | 8.6            |
|         |         |                 |           | 70  | 3.82          | 5.8              | 5.8            |
| DXVG036 | 1140    | 0.13            | 9.0       | 45  | 3.24          | 35.0             | 27.3           |
|         |         |                 |           | 50  | 3.23          | 26.7             | 24.3           |
|         |         |                 |           | 55  | 3.22          | 21.2             | 20.6           |
|         |         |                 |           | 60  | 3.21          | 16.7             | 16.4           |
|         |         |                 |           | 65  | 3.21          | 12.5             | 12.4           |
|         |         |                 |           | 70  | 3.20          | 8.4              | 8.4            |
| DXVG048 | 1520    | 0.13            | 12.0      | 45  | 3.24          | 46.4             | 36.2           |
|         |         |                 |           | 50  | 3.23          | 35.4             | 32.2           |
|         |         |                 |           | 55  | 3.22          | 28.1             | 27.3           |
|         |         |                 |           | 60  | 3.21          | 22.1             | 21.7           |
|         |         |                 |           | 65  | 3.21          | 16.6             | 16.4           |
|         |         |                 |           | 70  | 3.20          | 11.1             | 11.1           |
| DXVG060 | 1900    | 0.14            | 15.0      | 45  | 3.58          | 58.3             | 45.5           |
|         |         |                 |           | 50  | 3.57          | 44.4             | 40.0           |
|         |         |                 |           | 55  | 3.56          | 35.2             | 34.1           |
|         |         |                 |           | 60  | 3.56          | 27.7             | 27.1           |
|         |         |                 |           | 65  | 3.55          | 20.7             | 20.5           |
|         |         |                 |           | 70  | 3.55          | 13.9             | 13.9           |
| DXVG070 | 2215    | 0.17            | 17.5      | 45  | 4.86          | 66.5             | 51.9           |
|         |         |                 |           | 50  | 4.84          | 50.4             | 45.9           |
|         |         |                 |           | 55  | 4.84          | 39.9             | 38.7           |
|         |         |                 |           | 60  | 4.83          | 31.4             | 30.8           |
|         |         |                 |           | 65  | 4.82          | 23.6             | 23.4           |
|         |         |                 |           | 70  | 4.82          | 15.8             | 15.8           |

**Notes:**

1. The waterside pressure drops shown only account for the waterside economizer coil.
2. The airside pressure drop shown only accounts for the waterside economizer coil with a wet coil.
3. Capacity is at rated airflow at 80°F/67°F entering air temperature.

**Table 178. Antifreeze correction factors**

| Methanol (concentration by volume) |    |       |       |       |       |       |
|------------------------------------|----|-------|-------|-------|-------|-------|
| Item                               | 0% | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                   | 1  | 0.998 | 0.997 | 0.995 | 0.993 | 0.992 |
| Heating Capacity                   | 1  | 0.995 | 0.99  | 0.985 | 0.979 | 0.974 |
| Pressure Drop                      | 1  | 1.023 | 1.057 | 1.091 | 1.122 | 1.16  |

**Table 178. Antifreeze correction factors (continued)**

| Ethylene Glycol (concentration by volume)  |    |       |       |       |       |       |
|--|----|-------|-------|-------|-------|-------|
| Item                                       | 0% | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1  | 0.996 | 0.991 | 0.987 | 0.983 | 0.979 |
| Heating Capacity                           | 1  | 0.993 | 0.985 | 0.977 | 0.969 | 0.961 |
| Pressure Drop                              | 1  | 1.024 | 1.068 | 1.124 | 1.188 | 1.263 |
| Propylene Glycol (concentration by volume) |    |       |       |       |       |       |
| Item                                       | 0% | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1  | 0.993 | 0.987 | 0.98  | 0.974 | 0.968 |
| Heating Capacity                           | 1  | 0.986 | 0.973 | 0.96  | 0.948 | 0.935 |
| Pressure Drop                              | 1  | 1.04  | 1.098 | 1.174 | 1.273 | 1.405 |
| Brine (NaCL) (concentration by volume)     |    |       |       |       |       |       |
| Item                                       | 0% | 10%   | 20%   | 30%   | 40%   | 50%   |
| Cooling Capacity                           | 1  | 0.994 | 0.987 | 0.979 | 0.971 | 0.963 |
| Heating Capacity                           | 1  | 0.993 | 0.987 | 0.982 | 0.978 | 0.976 |
| Pressure Drop                              | 1  | 1.154 | 1.325 | 1.497 | 1.669 | 1.841 |

## Examples

### Example 1 (Ethylene Glycol):

The antifreeze solution is 20% by volume of Ethylene Glycol. Determine the corrected cooling capacity and waterside pressure drop for a GEHE018 when the EWT is 86°F and the GPM is 4.2.

From the catalog data, the cooling capacity at these conditions with 100% water is 17.6 Mbtuh, and the waterside pressure drop is 6.4 feet of head. At 20% Ethylene Glycol, the correction factor for cool capacity is 0.991 and the pressure drop is 1.068.

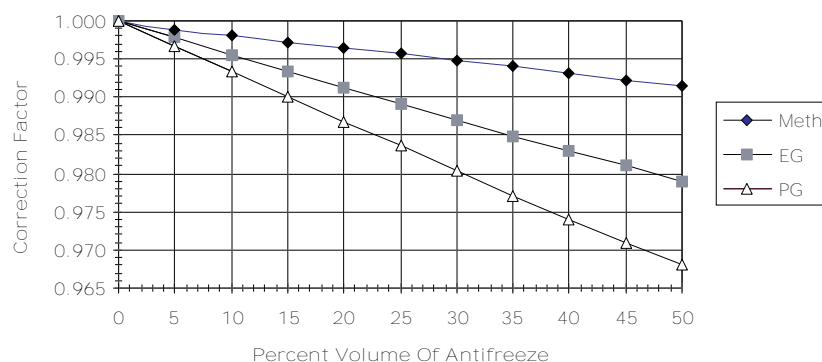
The corrected cooling capacity (Mbtuh) =  $17.6 * 0.991 = 17.4$ . The corrected water side pressure drop (Ft. head) =  $6.4 * 1.068 = 6.8$ .

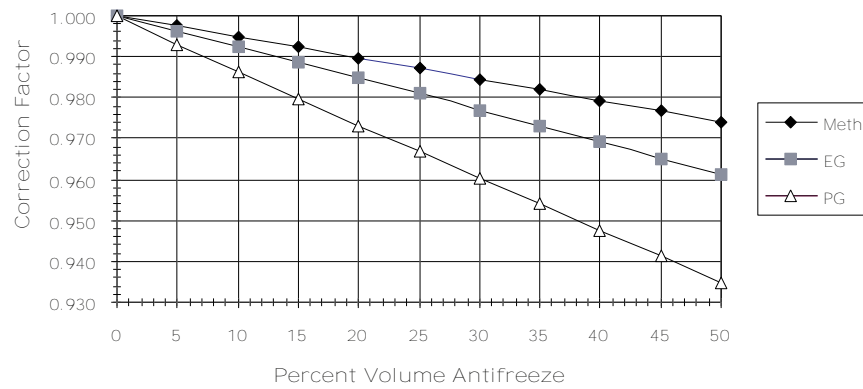
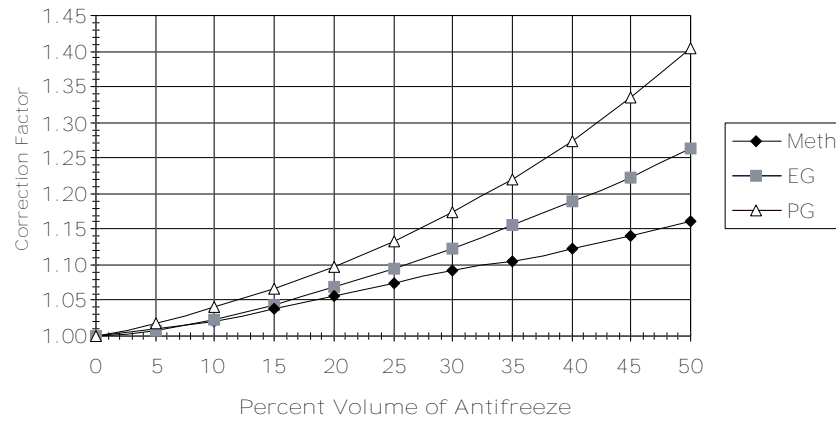
### Example 2 (Propylene Glycol):

The antifreeze solution is 30% by volume of Propylene Glycol. Determine the corrected heating capacity and waterside pressure drop for a GEHE042 when the EWT is 45°F and the GPM is 9.8.

From the catalog data, the heating capacity at these conditions with 100% water is 40.7 Mbtuh, and the waterside pressure drop is 16.6 feet of head. At 30% Propylene Glycol, the correction factor for heat capacity is 0.960 and the pressure drop is 1.174.

The corrected heating capacity (Mbtuh) =  $40.7 * 0.960 = 39.1$ . The corrected water side pressure drop (Ft. head) =  $16.6 * 1.174 = 19.5$ .

**Figure 14. Cooling capacity correction factor**


**Figure 15. Heating capacity correction factor**

**Figure 16. Water pressure drop correction factor**




## Controls

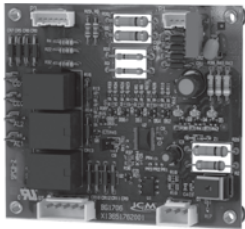
From our industry-leading building automation systems to equipment controls and sensors, Trane offers a complete portfolio of controls products. Trane unit mounted controls are mounted, wired, configured and tested to deliver a high quality product with time savings at the job site. Our building controls are web-based, flexible and scalable, mobile, easy to use and install, and support open standard protocols such as BACnet®, LONTalk®, and many others.

### Deluxe 24V Electronic Controls

The 24 V deluxe design is a microprocessor-based control board conveniently located in the control box. The board is unique to Trane water-source products and is designed to control the unit as well as provide outputs for unit status and fault detection.

The board is factory wired to a terminal point to provide all necessary terminals for field connections.

**Figure 17. Deluxe 24V control board**



The 24V deluxe design may be applied as a stand-alone control system. The stand-alone design provides accurate temperature control directly through a wall-mounted electronic thermostat.

This system set-up may be utilized in a replacement design where a single unit retrofit is needed. It may be easily interfaced with a field provided control system by way of the factory installed termination point. This stand-alone control is frequently utilized on small jobs where a building controller may not be necessary, or where field installed direct digital controls are specified.

The stand-alone system design provides a low cost option of installation while still allowing room control for each unit. The electric controls includes the following:

- Connection points for low voltage field wiring
- Anti-short cycle compressor protection
- Brown out protection
- Compressor contactor
- Compressor delay on start
- Compressor lock-out
- Condensate overflow
- Electric heat and compressor enable
- Freeze protection
- High pressure switch
- Hot gas reheat — EX models only
- Low pressure switch
- Low pressure time delay
- Random start delay
- Reversing valve coil
- Soft lockout mode

## Deluxe 24V Features

### Anti-short Cycle Timer

The anti-short cycle timer provides a three minute time delay between compressor stop and compressor restart.

### Brown-out Protection

The brown-out protection function measures the input voltage to the controller and halts the compressor operation. Once a brown-out situation has occurred, the anti-short cycle timer will become energized. The general fault contact will not be affected by this condition. The voltage will continue to be monitored until the voltage increases. The compressors will be enabled at this time if all start-up time delays have expired, and all safeties have been satisfied.

### Compressor Disable

The compressor disable relay provides a temporary disable in compressor operation. The signal would be provided from a water loop controller in the system. It would disable the compressor because of low water flow, peak limiting or if the unit goes into an unoccupied state. Once the compressor has been disabled, the anti-short cycle time period will begin. Once the compressor disable signal is no longer present, and all safeties are satisfied, the control will allow the compressor to restart.

### Diagnostics

Three LEDs (light emitting diodes) are provided for indicating the operating mode of the controller. See the unit IOM for diagnostics or troubleshooting through the use of the LEDs.

### Generic Relay

A generic relay is on the board and may be available for field use. Many factory options utilize this relay, and it will be unavailable for field use in those applications.

A 24 Vac signal will energize the relay coil on terminals R1 and R2. Terminals C (common), NO (normally open), and NC (normally closed) will be provided for the relay contacts.

### Random Start

The random start relay provides a time delay start-up of the compressor when cycling in the occupied mode. A new start delay time between 3 and 10 seconds is applied each time power is enabled to the unit.

### Safety Control

The deluxe controller receives separate input signals from the refrigerant high pressure switch, low suction pressure switch, freezestat and condensate overflow.

In a high pressure situation, the compressor contactor is de-energized, which suspends compressor operation. The control will go into soft lockout mode initializing a three minute time delay and a random start of 3 to 10 second time delays. Once these delays have expired, the unit will be allowed to run. If a high pressure situation occurs within one hour of the first situation, the control will be placed into a manual lockout mode, halting compressor operation, and initiating the general alarm.

In a low temperature situation, the low pressure switch will transition open after the compressor starts. If the switch is open for 45 seconds during compressor start, the unit will go into soft lockout mode initializing a three minute time delay and a random start of 3 to 10 second time delays. Once these delays have expired, the unit will be allowed to run. If the low pressure situation occurs again within 30 minutes, and the device is open for more than 45 seconds, the control will be placed into a manual lockout mode, halting compressor operation, and initiating the general alarm.

In a condensate overflow situation, the control will go into manual lockout mode, halting compressor operation, and initiating the general alarm.

The general alarm is initiated when the control goes into a manual lockout mode for either high pressure, low pressure, freezestat or condensate overflow conditions.

### High and Low Pressure Switches

System safety devices are provided through the use of low/high pressure switches in the refrigeration circuit to help prevent compressor damage. The low pressure switch is set to activate at refrigerant

pressures of 40 psig to fit most applications. In cases where a low charge, or excessive loss of charge occurs, each compressor comes equipped with an external overload device to halt the compressor operation.

The high pressure switch prevents compressor operation during high or excessive discharge pressures that exceed 650 psig.

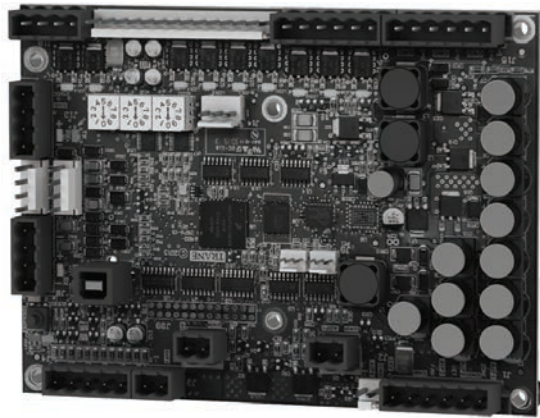
**Figure 18. High and low pressure switches**



## Tracer® Controls

The Tracer® family of controllers, ZN524, UC400, and UC400B offer the combined advantages of simple and dependable operation with the latest Trane-designed controller. Standard control features include options normally available on more elaborate control systems. All control options are available factory-configured or can be field-configured using Rover service software (ZN524) and the UC400 is serviced via Tracer® TU. For more detailed information, refer to CNT-SVX11\*-EN (for Tracer® ZN524), BAS-SVX065\*-EN (for UC400B), or the most recent version of the publication. Tracer® ZN524 and UC400(B) are DDC that when applied to water-source equipment provide control of the entire unit, as well as outputs for unit status and fault detection. Each device is factory installed, commissioned, and tested to ensure the highest level of quality in unit design.

**Figure 19. Tracer® UC400B**



Each controller feature and option was selected to coordinate with the unit hardware to provide greater energy efficiency and equipment safety to prolong the equipment life.

Trane® WSHP with DDC controllers features include 75VA transformer, compressor contactor, compressor lockout function, random start delay, heating/cooling status, occupied/unoccupied mode, low pressure switch, high pressure switch, fan and filter status optional, reversing valve, fan motor, termination points (for low voltage field wiring), condensate overflow and freeze protection. Additional features include two-position water isolation valve support (for variable speed pumping). Optional features include boilerless control for electric heat, waterside economizer, hot gas reheat (for dehumidification) — for EX models only.

## Tracer® ZN524

The ZN524 controller can be used in a stand-alone application or as part of a Trane® Integrated Comfort™ System (ICS). The Tracer® ZN524 is LonTalk® certified. It is capable of working with, and talking to other LonTalk® certified controllers providing the building owner more choices, and the design engineers more flexibility to meet the challenges of building automation.



## Tracer® UC400/400B

The Tracer® UC400(B) is a BTL Listed BACnet® controller that can operate stand-alone or within a Building Automation system such as Tracer® SC.

## Tracer® UC400(B)/ZN524 Functions Include:

### Boilerless Control Electric Heat

The controller supports a single stage of boilerless electric heat operation.

Electric heat is used when boilerless heat is enabled/configured and the EWT is too low for compressor operation. When this condition is met, the two-position isolation valve will be closed shutting down the water flow to the unit.

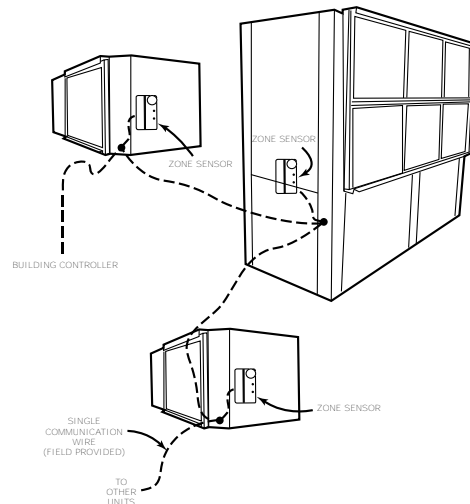
### Compressor Operation

The compressor is cycled on and off to meet heating or cooling zone demands. Units use the unit capacity and pulse width modulation (PWM) logic along with minimum on/off timers to determine the compressor's operation. The compressor is controlled ON for longer periods as capacity increases and shorter periods as capacity decreases.

### Condensate Overflow

When condensate reaches the trip point, a condensate overflow signal generates a diagnostic which disables the fan, unit water valves (if present), and compressor. The unit will remain in a halted state until the condensation returns to a normal level. At this time, the switch in the drain pan will automatically reset. However, the controller's condensate overflow diagnostic must be manually reset to clear the diagnostic and restart the unit.

**Figure 20. Building control advantages**



The Tracer® ZN524 or UC400(B) controllers have the ability to share information with one or several units on the same communication link.

An advantage of installing a Tracer® UC400(B) or ZN524 is its capability to work with other BACnet® or LonTalk® controllers. This provides greater flexibility to the building owner, as well as greater flexibility in design.

Integrating the UC400(B) or ZN524 on water-source equipment, and tying it to a Tracer® SC or other BAS system provides a complete building management system. With a Building Automation system like a Tracer® SC, the system can initiate an alarm on a loss of performance on equipment malfunctions; allowing problems to be handled in a timely manner before compromising comfort.

This type of application would most commonly be used for a large space(s) that may require more than one unit. In addition to this application design, UC400(B) and ZN524 controller provides a way for units located within the same space to share the same zone sensor to prevent units from simultaneously heating and cooling in the same space.

**Note:** The sharing of information is made possible with a twisted pair of wire and a building automation system or through Trane's service tools

### **Data Sharing**

The Tracer® UC400(B) and ZN524 controller are capable of sending or receiving data (setpoints, fan request, or space temperature) to and from other controllers on the communication link. This allows multiple units to share a common space temperature sensor in both stand-alone and building automation applications.

### **Dehumidification (applicable to EX units only)**

Dehumidification for the water-source heat pump is applicable with the UC400(B) and ZN524. The controller is capable of directing one stage of DX cooling in conjunction with one stage of reheat (hot gas reheat).

Dehumidification can only occur when the controller is in the cooling mode. A humidity sensor is used to measure the zone's relative humidity (RH), then compares the zone relative humidity to the relative humidity enable/disable setpoint parameters. The dehumidification enable and disable points are configurable.

### **Fan Operation**

The supply air fan operates at the predetermined speed in the occupied or occupied standby mode. When switch is set to AUTO, the fan is configured for cycling ON with heating or cooling. In heat mode, the fan will run for 30 seconds beyond compressor shutdown in both occupied and unoccupied mode.

### **Filter Maintenance Timer**

The controller filter status is based on the unit fan's cumulative run hours. The controller compares the fan run time against an adjustable fan run hours limit and recommends unit maintenance as required.

### **High and Low Pressure Switches**

The Tracer® UC400(B) and ZN524 detects the state of the high pressure or low pressure switches. When a fault is sensed by one of these switches, the corresponding message is sent to the controller to be logged into the fault log. When the circuit returns to normal, the high pressure control and low pressure control automatically reset. If a second fault is detected within a thirty-minute time span, the unit must be manually reset.

### **Occupancy Modes**

The four operations of the Tracer® UC400(B) and ZN524 controller include occupied, occupied standby, occupied bypass and unoccupied.

In an occupied situation, the controller uses occupied heating and cooling setpoints to provide heating and cooling to the building. This occupied operation is normally used during the daytime hours when the building is at the highest occupancy level.

In an occupied standby situation, the controllers heating and cooling setpoints are usually wider than the occupied setpoints. This occupied standby operation is used during daytime hours when people are not present in the space (such as lunchtime or recess). To determine the space occupancy, an occupancy sensor is applied.

In an unoccupied situation, the controller assumes the building is vacant, which normally falls in evening hours when a space may be empty. In the unoccupied mode, the controller uses the default unoccupied heating and cooling setpoints stored in the controller. When the building is in unoccupied mode, individual units may be manually placed into timed override of the unoccupied mode at the units wall sensor. During timed override, the controller interprets the request and initiates the occupied setpoint operation, then reports the effective occupancy mode as occupied bypass.

In the occupied bypass mode, the controller applies the occupied heating and cooling setpoint for a 120-minute time limit.

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<sup>1</sup>. For 6 to 25 ton units, applicable to single and dual circuited

## Random Start

To prevent all of the units in a building from energizing major loads at the same time, the controller observes a random start from 0 to 25 seconds. This timer halts the controller until the random start time expires.

## Reversing Valve Operation

For cooling, the reversing valve output is energized simultaneously with the compressor. It will remain energized until the controller turns on the compressor for heating. At this time, the reversing valve moves to a de-energized state. In the event of a power failure or controller OFF situation, the reversing valve output will default to the heating (de-energized) state.

## Entering Water Temperature Sampling

The controller will sample the entering water temperature to determine proper control action for units equipped with boilerless electric heat or waterside economizer.

## Waterside Economizer

Entering water temperature (EWT) sampling will automatically occur at power up when the unit is equipped with a waterside economizer (WSE). The EWT is used to determine if economizing is feasible. When the conditions are met, the two-position isolation valve(s) are driven open for three minutes and the EWT reading is taken. The determination as to whether or not the economizer can be enabled will be made and the controller will take appropriate action. The isolation valve will remain open regardless if the WSE or the DX cooling is enabled.

The unit's waterside economizer will contain a 2-position water valve wired to the controller. The economizing water coil will be optimized to provide 100% of the unit capacity at 80.6°F/66.2°F return air temperature with 45°F entering water. The flow rate is established at 86 F entering water temperature and 96°F leaving water temperature.

Low leaving air protection will be furnished to protect the unit against delivering air that is cold enough to sweat discharge air grilles. Coil icing protection will also be provided.

Waterside economizer cooling will be active during occupied, unoccupied and standby cooling modes.

## Water Isolation Valve

Variable speed pumping systems are supported by the controller when two-position water isolation valves (12 VA max) are present. The valves are normally closed unless DX heating, DX cooling, waterside economizer or dehumidification is requested. When the two-position isolation valves are driven open for operation, the outputs will be driven for 20 seconds to ensure adequate water flow before the compressor outputs are energized. Once an isolation valve has been opened, it will remain open for a 10 minute minimum to reduce excessive cycling of the valve.

## Isolation Valve “ON” Control

The two-position isolation valve output will be energized (controlled open) during compressor heating, compressor cooling, waterside economizing or dehumidification.

When the isolation valve is driven open for compressor operation, the output will be energized 20 seconds prior to the compressor and indoor fan (if not already energized) outputs to ensure adequate water flow to the heat exchanger. To reduce excessive cycling of the isolation valve once opened, the isolation valve will remain open for a minimum of 10 minutes.

## Isolation Valve “OFF” Control

The two-position isolation valve output will be de-energized (controlled closed) when there is no longer a call for compressor or WSE operation and the 10 minute minimum on time has expired.



## Trane® Air-Fi® Wireless Systems



Trane® Air-Fi® wireless systems provides significant advantages to better meet customer by providing a lower initial cost; ease of installation for reduced risk; increased reliability and flexibility for easier problem solving; and fewer maintenance issues for worry-free operation and cost savings over the life of the system. Trane® Air-Fi® wireless systems helps save time and money, with industry-leading technology and performance.

### Air-Fi® Wireless Communications Interface (WCI)

The Air-Fi® Wireless Communications Interface (WCI) enables wireless communications between system controls, unit controls, and wireless sensors for Trane control products that use the BACnet® protocol. The WCI replaces the need for communications wire in all system applications.

The WCI is available in three configurations:

- The universal model is the most common. It installs the same as a wired zone sensor in indoor applications.
- The outdoor model is housed in an enclosure suitable for outdoor environments. It is usually used on equipment above the roof deck.
- The flush mount model is used on fan coils, blower coils, and unit ventilators.

### Air-Fi® Wireless Communications Sensor (WCS)

The Air-Fi Wireless Communications Sensor (WCS) is compatible with any Trane® controller that uses a WCI, except the Tracer SC. The WCS provides the same functions as many currently available Trane® wired sensors. No further software or hardware is necessary for site evaluation, installation, or maintenance. Space temperature is standard on all models. (A service tool cannot be connected to a Trane® wireless sensor.)

Several WCS models are available:

- CO<sub>2</sub> with occupancy WCS-SCO<sub>2</sub>
- Digital display (WCS-SD) model
- Occupancy WCS-SO
- Base (WCS-SB) model has no exposed display or user interface
- 2% relative humidity sensor module (WCS-SH), which can be field installed inside either the WCS

In most applications, one WCS sensor is used per WCI acting as a router. However, up to six (6) WCS sensors can be associated to a single equipment controller or BCI.

### Compatibility with Previous Generation Wireless Zone Products

Our previous line of wireless zone sensors (WZS, WTS, and WDS) are not compatible with the Air-Fi® Wireless Communications Interface (WCI).







The new Air-Fi® Wireless Communications Sensor (WCS) are compatible with old WCIs that have updated firmware.

### Wired Zone Sensors

Wired zone sensors can be used with Air-Fi® wireless systems.







# Thermostats and Zone Sensors

**Table 179. Thermostat selection for use with the Deluxe controller**



| Thermostat  | Part Number             | Description   |
|---|-------------------------|---|
|    | X13511535010            | 1 Heat/1 Cool, non-programmable commercial thermostat for conventional air conditioners and heat pumps that are configured without auxiliary heat <ul style="list-style-type: none"> <li>• 1 H/1 C</li> </ul>   |
|    | X13511536010            | 3 Heat/2 Cool, non-programmable commercial thermostat for conventional air conditioners and heat pumps that are configured with or without auxiliary heat. <ul style="list-style-type: none"> <li>• 3 H/2 C</li> </ul>  |
|   | X13511537010            | 3 Heat/2 Cool, programmable commercial thermostat for conventional (rooftop) air conditioners and heat pumps that are configured with or without auxiliary heat. <ul style="list-style-type: none"> <li>• 3 H/2 C</li> </ul>  |
|  | X13511538010            | 3Heat/2 Cool, programmable touch screen thermostat for conventional air conditioners and heat pump systems.<br>The thermostat will provide the human interface, zone temperature sensing both local and optional remote temperature sensing, and set point scheduling on a daily/weekly basis.<br>This thermostat can also display humidity with a control signal for dehumidification with a local humidity sensor or optional remote humidity sensor. <ul style="list-style-type: none"> <li>• 3 H/2 C</li> </ul> |
|  | Pivot — BAYSTAT814A-W.  | Pivot Smart Thermostat is a Wi-Fi/ethernet thermostat for commercial applications. It has a very simple interface for occupants to adjust the thermostat. Cooling and heating control of multiple systems is made even easier and faster when connected to the Pivot App. Supports 2 stage heat pump with auxiliary heat.   |
|  | XL824 - TCONT824AS52DB. | The XL824 Smart thermostat is a Wi-Fi/ethernet thermostat for Residential applications such as single family homes, condominiums and apartments. Supports 2 stage heat pump with auxiliary heat. The XL824 can be connected to the Nexia Home App and other home automation systems.  |

## Thermostats and Zone Sensors




**Table 180. Zone sensor selection for use with Tracer® ZN524 and UC400 controller**

| Sensor  | Part Number  | Description   |
|---|--------------|---|
|    | X13790886010 | <p>Wired temperature sensor with an LCD display</p> <ul style="list-style-type: none"> <li>Allows an occupant to control the temperature setpoint, request timed override of system operation, and provides a COMM module to service technicians. Tracer® ZN524 and UC400 Compatible</li> </ul> |
|    | X13651467020 | <p>Communication Module</p> <ul style="list-style-type: none"> <li>Sold in packs of 12</li> <li>Provides local RJ22 connection to Trane® service tools for easy, low cost maintenance.</li> </ul>   |
|    | X13511529010 | <p>Zone Sensor</p> <ul style="list-style-type: none"> <li>Tracer® UC400 and ZN524 compatible</li> <li>External setpoint adjustment wheel</li> </ul>   |
|   | X13511527010 | <p>Zone Sensor</p> <ul style="list-style-type: none"> <li>Tracer® UC400 and ZN524 compatible</li> <li>External setpoint adjustment wheel</li> <li>ON and CANCEL buttons</li> </ul>  |
|  | X1379084501  | <p>Zone Sensor</p> <ul style="list-style-type: none"> <li>Tracer® UC400 and ZN524 compatible</li> <li>External setpoint adjustment wheel</li> <li>ON and CANCEL buttons</li> <li>Fan switch AUTO-OFF</li> </ul>   |
|  | X1379044401  | <p>Temperature and relative humidity sensor</p> <ul style="list-style-type: none"> <li>Tracer® UC400 and ZN524 compatible</li> </ul>  |

**Table 180. Zone sensor selection for use with Tracer® ZN524 and UC400 controller (continued)**

| Sensor   | Part Number  | Description  |
|--|--------------|--|
|   | X13790993001 | Commercial Touch Screen Programmable Zone Sensor <ul style="list-style-type: none"> <li>• Supports Standby, Occupied, and Unoccupied</li> <li>• 7 day, 5+2 day, and 5+1+1 day</li> <li>• Cannot be used with BAS as sensor ties up BACnet link. For use with factory-programmed UC400.</li> </ul> <b>Note:</b> Additional configuration is needed in the field to use the Programmable zone sensors (to put BAS points in service on UC400). |
|  | X13790992001 | Residential Touch Screen Programmable Zone Sensor <ul style="list-style-type: none"> <li>• Supports Awake, Away, Home, and Sleep</li> <li>• 7 day, 5+2 day, and 5+1+1 day</li> <li>• Cannot be used with BAS as sensor ties up BACnet link. For use with factory-programmed UC400.</li> </ul> <b>Note:</b> Additional configuration is needed in the field to use the Programmable zone sensors (to put BAS points in service on UC400).     |

**Table 181. Wireless zone sensor selection for use with Tracer® UC400 controller**

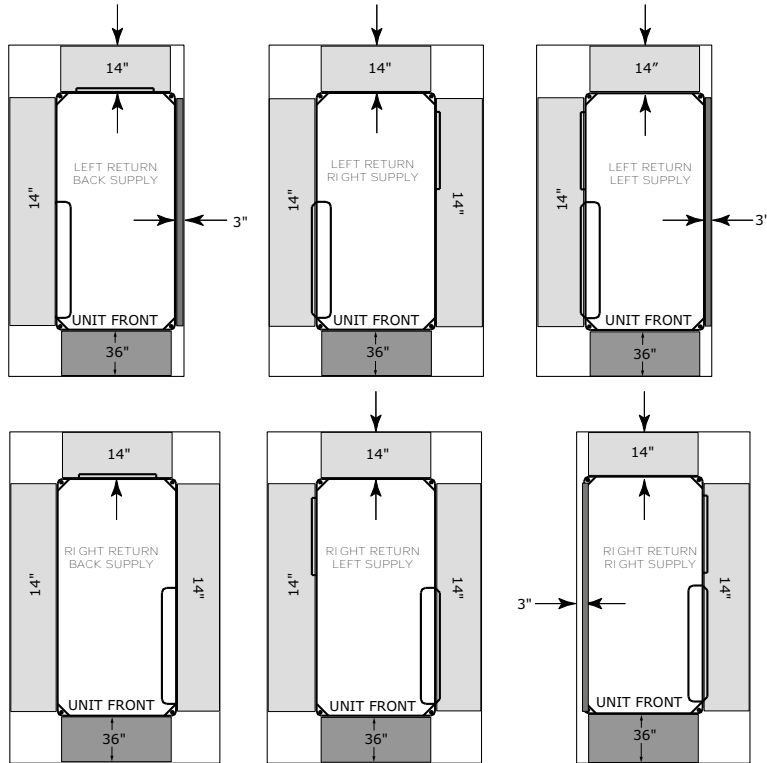
| Sensor  | Part Number  | Description   |
|---|--------------|---|
|  | X13790955010 | Trane Air-Fi® WCS-SD (display) <ul style="list-style-type: none"> <li>• Tracer® UC400 Compatible</li> <li>• Easy-to-use interface for clear and simple monitoring and control</li> </ul>  |
|  | X13790956010 | Trane Air-Fi® WCS-SB (base) <ul style="list-style-type: none"> <li>• Tracer® UC400 Compatible</li> <li>• Simplicity</li> <li>• Eliminates local temperature control when higher control level is required.</li> </ul>                   |
|  | X13790973030 | Wireless communications sensor accessory—2% relative humidity (RH) sensor module (WCS-SH)<br>The optional RH sensor module plugs in to any WCS model, further simplifying installation by eliminating the needed for additional wiring. |

# Dimensional Data

## Service Clearances

Per NEC requirements, 36 inches of access and working space shall be provided and maintained around all control boxes and electrical equipment to permit ready and safe operation and maintenance of such equipment. Local codes may require more clearance to electrical equipment. Check all code requirements prior to unit installation.

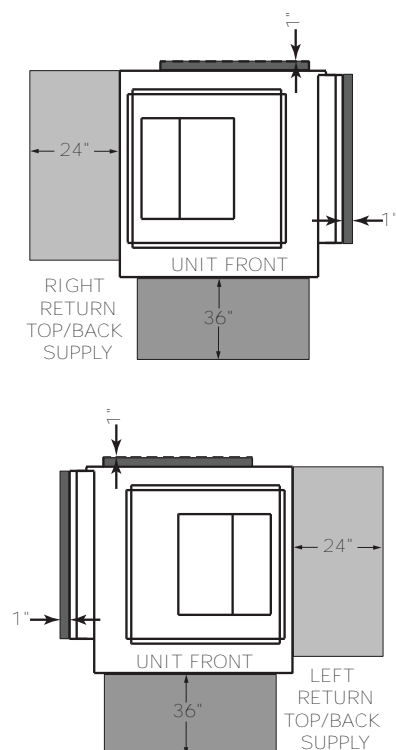
**Figure 21. Clearances - EXHF/DXHF 0.5 to 6 tons**



A minimum 14-inch clearance for servicing the unit is required for all EXH 0.5 to 6 tons configurations from other mechanical and electrical equipment (where shown) to enable panel removal from the unit for service/maintenance ability. The optimum clearance required is 20 inches. Equipment containing a same-side supply/return combination requires a 3 inches limitation on one side. Access to the TXV may not be possible with this 3 inches clearance. This configuration is typically applied in a corridor installation, where space limitations force the left or right side of the unit against a wall.



**Figure 22. Clearance – EXVG/DXVG 0.75 to 6 Tons**



A 24–inch clearance from other mechanical and electrical equipment (where shown) is recommended for most unit configurations. This will enable panel removal from the unit for service/maintenance.

The 24 inch side clearance on EXVG/DXVG 0.75-6T models is for optimal access only. Side clearance is not a requirement as most components can be accessed from the front of the unit.

A 1–inch minimum clearance between the filter rack and any obstacle is required for units in a free return application to provide proper air flow to the air-to-refrigerant coil. A 12 inch minimum clearance between the filter rack and any obstacle should be provided to properly attached ductwork.

The 1–inch dimension shown in the back of the unit represents the supply duct collar for the back supply option. This clearance is needed to clear these flanges.

## Unit Dimensions

Figure 23. Left return/left supply (EXHF/DXHF)

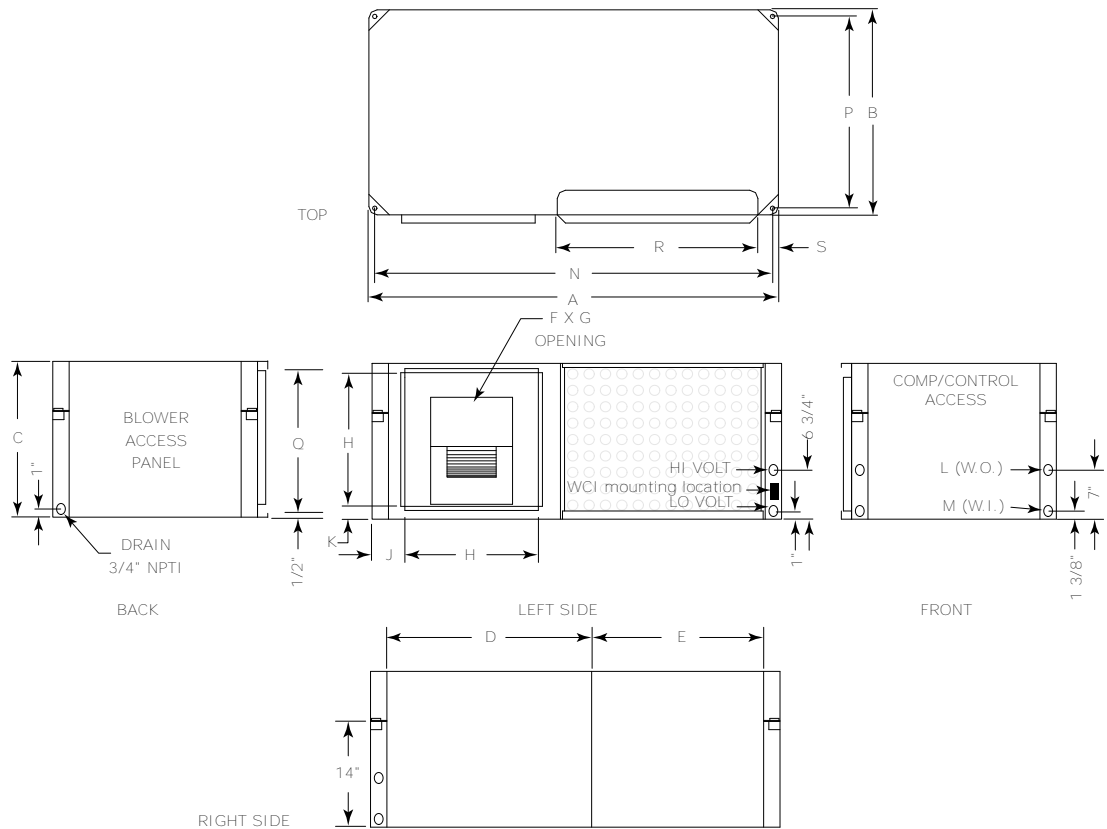


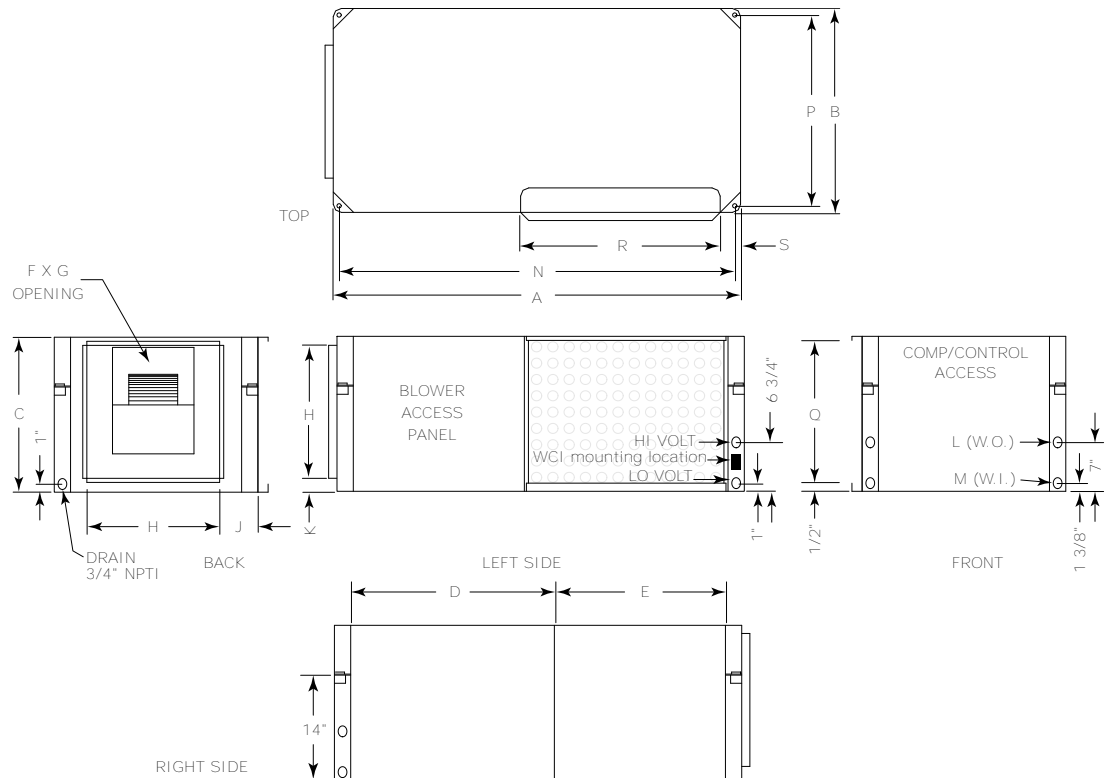
Table 182. Left return/left supply (EXHF/DXHF)

| Unit                       | A  | B  | C  | D <sup>(a)</sup> | E      | F x G           | H      | J     | K     | L<br>NPTI | M<br>NPTI | N      | P      | Q      | R <sup>(b)</sup> | S     |
|----------------------------|----|----|----|------------------|--------|-----------------|--------|-------|-------|-----------|-----------|--------|--------|--------|------------------|-------|
| EXHF006-009                | 40 | 20 | 15 | 20               | 15     | 6-7/8 x 8       | 11-1/2 | 4-1/2 | 1-3/4 | 1/2       | 1/2       | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF012-015                | 40 | 20 | 15 | 20               | 15     | 8-1/4 x 9-3/4   | 11-1/2 | 4-1/4 | 3/4   | 1/2       | 1/2       | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF018<br>EXHF/DXHF024    | 46 | 23 | 18 | 23               | 18     | 8-1/4 x 11-3/8  | 13-1/2 | 4-3/4 | 1-3/8 | 3/4       | 3/4       | 44-3/4 | 21-3/4 | 16-5/8 | 18-1/2           | 4-1/4 |
| EXHF030<br>EXHF/DXHF036    | 50 | 25 | 19 | 25               | 20     | 10-1/2 x 13-1/2 | 17     | 4     | 1     | 3/4       | 3/4       | 48-3/4 | 23-3/4 | 17-5/8 | 23-1/2           | 3-1/4 |
| EXHF042-060<br>DXHF048-060 | 58 | 33 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1         | 1         | 56-3/4 | 31-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |
| EXHF/DXHF070               | 58 | 39 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1         | 1         | 56-3/4 | 37-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |

**Note:** Equipment containing a same-side supply/return combination requires a 3 in. clearance on one side. Access to the TXV may not be possible with this 3 in. clearance.

- (a) Return air opening dimension.  
(b) Filter rack dimension.

**Figure 24. Left return/back supply (EXH/DXH)**



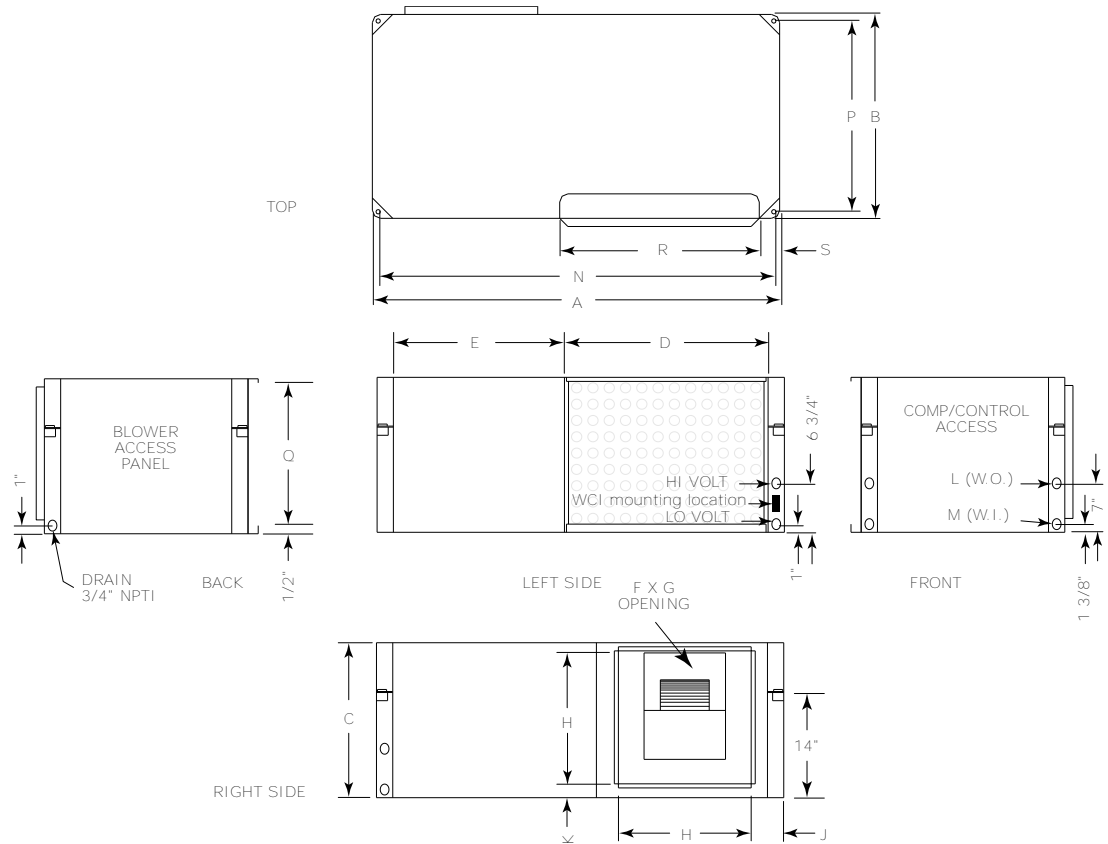
**Table 183. Dimensional data left return/back supply (EXH/DXH)**

| Unit                        | A  | B  | C  | D <sup>(a)</sup> | E      | F x G           | H      | J     | K     | L NPTI | M NPTI | N      | P      | Q      | R <sup>(b)</sup> | S     |
|-----------------------------|----|----|----|------------------|--------|-----------------|--------|-------|-------|--------|--------|--------|--------|--------|------------------|-------|
| EXHF006-009                 | 40 | 20 | 15 | 20               | 15     | 6-7/8 x 8       | 11-1/2 | 4-1/2 | 1-3/4 | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF012-015                 | 40 | 20 | 15 | 20               | 15     | 8-1/4 x 9-3/4   | 11-1/2 | 4-1/4 | 3/4   | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF018<br>EXHF/<br>DXHF024 | 46 | 23 | 18 | 23               | 18     | 8-1/4 x 11-3/8  | 13-1/2 | 4-3/4 | 1-3/8 | 3/4    | 3/4    | 44-3/4 | 21-3/4 | 16-5/8 | 18-1/2           | 4-1/4 |
| EXHF030<br>EXHF/<br>DXHF036 | 50 | 25 | 19 | 25               | 20     | 10-1/2 x 13-1/2 | 17     | 4     | 1     | 3/4    | 3/4    | 48-3/4 | 23-3/4 | 17-5/8 | 23-1/2           | 3-1/4 |
| EXHF042-060<br>DXHF048-060  | 58 | 33 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 31-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |
| EXHF/<br>DXHF070            | 58 | 39 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 37-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |

**Note:** Equipment containing a same-side supply/return combination requires a 3 in. clearance on one side. Access to the TXV may not be possible with this 3 in. clearance.

<sup>(a)</sup> Return air opening dimension.

<sup>(b)</sup> Filter rack dimension.

**Figure 25. Left return/right supply (EXH/DXH)**

**Table 184. Dimensional data left return/right supply (EXH/DXH)**

| Unit                     | A  | B  | C  | D <sup>(a)</sup> | E      | F x G           | H      | J     | K     | L NPTI | M NPTI | N      | P      | Q      | R <sup>(b)</sup> | S     |
|--------------------------|----|----|----|------------------|--------|-----------------|--------|-------|-------|--------|--------|--------|--------|--------|------------------|-------|
| EXHF006-009              | 40 | 20 | 15 | 20               | 15     | 6-7/8 x 8       | 11-1/2 | 4-1/2 | 1-3/4 | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF012, 015             | 40 | 20 | 15 | 20               | 15     | 8-1/4 x 9-3/4   | 11-1/2 | 4-1/4 | 3/4   | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF018, EXHF/DXHF024    | 46 | 23 | 18 | 23               | 18     | 8-1/4 x 11-3/8  | 13-1/2 | 4-3/4 | 1-3/8 | 3/4    | 3/4    | 44-3/4 | 21-3/4 | 16-5/8 | 18-1/2           | 4-1/4 |
| EXHF030, EXHF/DXHF036    | 50 | 25 | 19 | 25               | 20     | 10-1/2 x 13-1/2 | 17     | 4     | 1     | 3/4    | 3/4    | 48-3/4 | 23-3/4 | 17-5/8 | 23-1/2           | 3-1/4 |
| EXHF042-060, DXHF048-060 | 58 | 33 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 31-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |
| EXHF/DXHF070             | 58 | 39 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 37-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |

**Note:** Equipment containing a same-side supply/return combination requires a 3 in. clearance on one side. Access to the TXV may not be possible with this 3 in. clearance.

(a) Return air opening dimension.

(b) Filter rack dimension.

Figure 26. Right return/left supply (EXH/DXH)

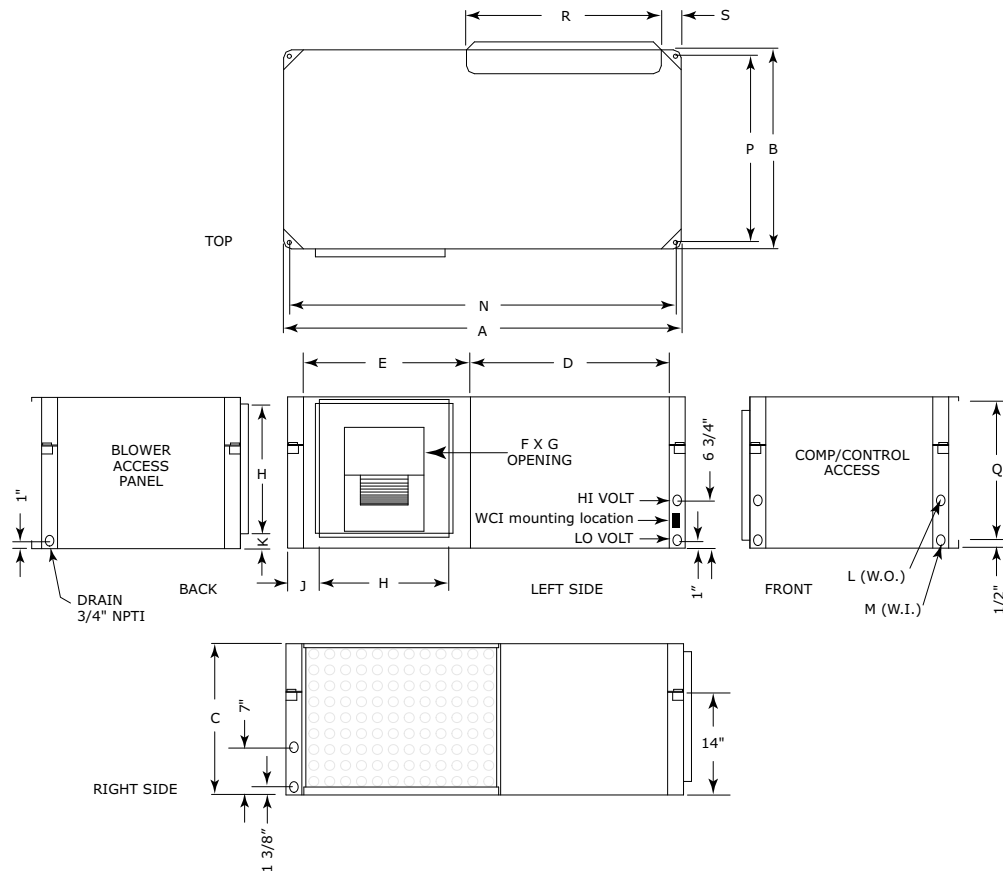


Table 185. Dimensional data right return/left supply (EXH/DXH)

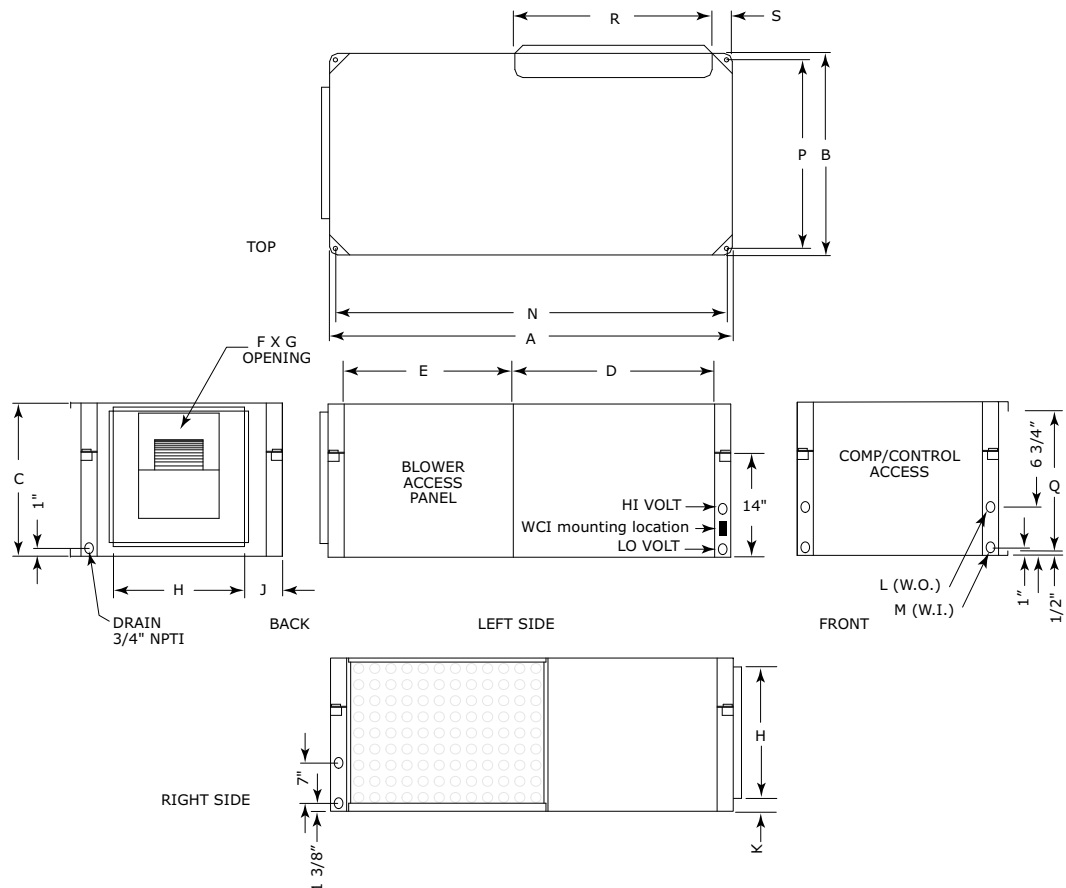
| Unit                     | A  | B  | C  | D <sup>(a)</sup> | E      | F x G           | H      | J     | K     | L NPTI | M NPTI | N      | P      | Q      | R <sup>(b)</sup> | S     |
|--------------------------|----|----|----|------------------|--------|-----------------|--------|-------|-------|--------|--------|--------|--------|--------|------------------|-------|
| EXHF006-009              | 40 | 20 | 15 | 20               | 15     | 6-7/8 x 8       | 11-1/2 | 4-1/2 | 1-3/4 | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF012-015              | 40 | 20 | 15 | 20               | 15     | 8-1/4 x 9-3/4   | 11-1/2 | 4-1/4 | 3/4   | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF018, EXHF/DXHF024    | 46 | 23 | 18 | 23               | 18     | 8-1/4 x 11-3/8  | 13-1/2 | 4-3/4 | 1-3/8 | 3/4    | 3/4    | 44-3/4 | 21-3/4 | 16-5/8 | 18-1/2           | 4-1/4 |
| EXHF030, EXHF/DXHF036    | 50 | 25 | 19 | 25               | 20     | 10-1/2 x 13-1/2 | 17     | 4     | 1     | 3/4    | 3/4    | 48-3/4 | 23-3/4 | 17-5/8 | 23-1/2           | 3-1/4 |
| EXHF042-060, DXHF048-060 | 58 | 33 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 31-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |
| EXHF/DXHF070             | 58 | 39 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 37-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |

**Note:** Equipment containing a same-side supply/return combination requires a 3 in. clearance on one side. Access to the TXV may not be possible with this 3 in. clearance.

(a) Return air opening dimension.

(b) Filter rack dimension.

**Figure 27. Right return/back supply (EXH/DXH)**



**Table 186. Dimensional data right return/back supply (EXH/DXH)**

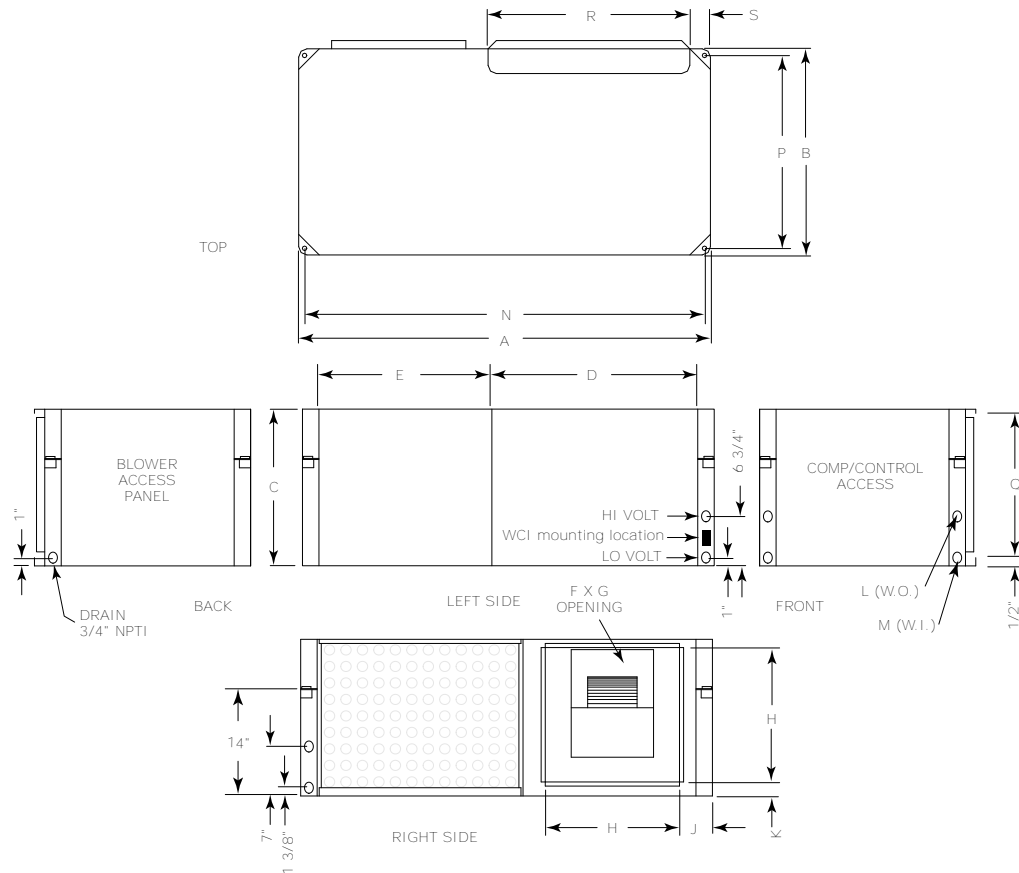
| Unit                     | A  | B  | C  | D <sup>(a)</sup> | E      | F x G           | H      | J     | K     | L NPTI | M NPTI | N      | P      | Q      | R <sup>(b)</sup> | S     |
|--------------------------|----|----|----|------------------|--------|-----------------|--------|-------|-------|--------|--------|--------|--------|--------|------------------|-------|
| EXHF006-009              | 40 | 20 | 15 | 20               | 15     | 6-7/8 x 8       | 11-1/2 | 4-1/2 | 1-3/4 | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF012-015              | 40 | 20 | 15 | 20               | 15     | 8-1/4 x 9-3/4   | 11-1/2 | 4-1/4 | 3/4   | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF018, EXHF/DXHF024    | 46 | 23 | 18 | 23               | 18     | 8-1/4 x 11-3/8  | 13-1/2 | 4-3/4 | 1-3/8 | 3/4    | 3/4    | 44-3/4 | 21-3/4 | 16-5/8 | 18-1/2           | 4-1/4 |
| EXHF030, EXHF/DXHF036    | 50 | 25 | 19 | 25               | 20     | 10-1/2 x 13-1/2 | 17     | 4     | 1     | 3/4    | 3/4    | 48-3/4 | 23-3/4 | 17-5/8 | 23-1/2           | 3-1/4 |
| EXHF042-060, DXHF048-060 | 58 | 33 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 31-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |
| EXHF/DXHF070             | 58 | 39 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 37-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |

**Note:** Equipment containing a same-side supply/return combination requires a 3 in. clearance on one side. Access to the TXV may not be possible with this 3 in. clearance.

(a) Return air opening dimension.

(b) Filter rack dimension.

**Figure 28. Right return/right supply (EXH/DXH)**



**Table 187. Dimensional data right return/right supply (EXH/DXH)**

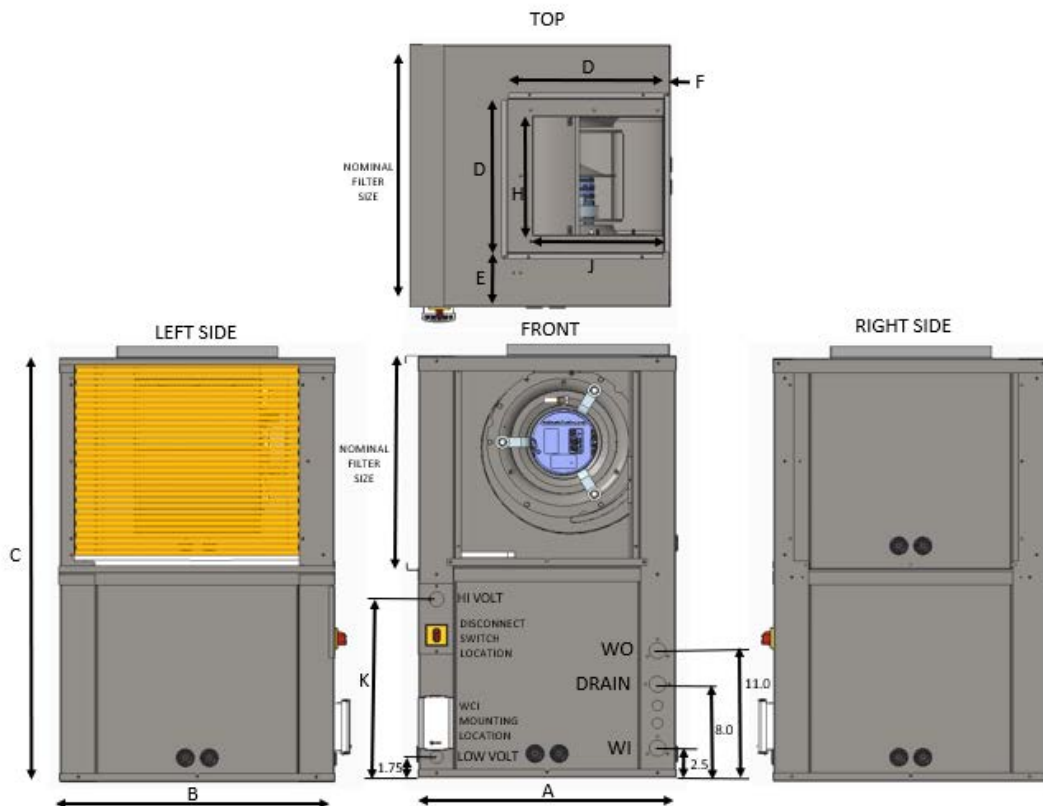
| Unit                     | A  | B  | C  | D <sup>(a)</sup> | E      | F x G           | H      | J     | K     | L NPTI | M NPTI | N      | P      | Q      | R <sup>(b)</sup> | S     |
|--------------------------|----|----|----|------------------|--------|-----------------|--------|-------|-------|--------|--------|--------|--------|--------|------------------|-------|
| EXHF006-009              | 40 | 20 | 15 | 20               | 15     | 6-7/8 x 8       | 11-1/2 | 4-1/2 | 1-3/4 | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF012-015              | 40 | 20 | 15 | 20               | 15     | 8-1/4 x 9-3/4   | 11-1/2 | 4-1/4 | 3/4   | 1/2    | 1/2    | 38-3/4 | 18-3/4 | 13-5/8 | 18-1/2           | 3-1/4 |
| EXHF018, EXHF/DXHF024    | 46 | 23 | 18 | 23               | 18     | 8-1/4 x 11-3/8  | 13-1/2 | 4-3/4 | 1-3/8 | 3/4    | 3/4    | 44-3/4 | 21-3/4 | 16-5/8 | 18-1/2           | 4-1/4 |
| EXHF030, EXHF/DXHF036    | 50 | 25 | 19 | 25               | 20     | 10-1/2 x 13-1/2 | 17     | 4     | 1     | 3/4    | 3/4    | 48-3/4 | 23-3/4 | 17-5/8 | 23-1/2           | 3-1/4 |
| EXHF042-060, DXHF048-060 | 58 | 33 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 31-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |
| EXHF/DXHF070             | 58 | 39 | 21 | 29-1/2           | 23-1/2 | 13-7/8 x 13-7/8 | 18     | 5-1/4 | 1-1/2 | 1      | 1      | 56-3/4 | 37-3/4 | 19-5/8 | 23-1/2           | 5-1/2 |

**Notes:**

1. When a horizontal model is ordered with the same side return and supply in a ducted application, bottom filter removal is required due to limited access on either side of the filter.
2. Equipment containing a same-side supply/return combination requires a 3 in. clearance on one side. Access to the TXV may not be possible with this 3 in. clearance.

<sup>(a)</sup> Return air opening dimension.

<sup>(b)</sup> Filter rack dimension.

**Figure 29. Left return/top supply (EXVG/DXVG)**

**Table 188. Dimensional data left return/top supply (EXVG/DXVG)**

| Unit                  | Cabinet |         |          | Duct Collar | Duct Collar Location |      |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|-----------------------|---------|---------|----------|-------------|----------------------|------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|                       | Width A | Depth B | Height C |             | E                    | F    | G    | H              | J     |         |                     |           |           |            |
| EXVG009-012           | 21.50   | 21.50   | 34.00    | 13.25       | 4.00                 | 1.00 | 3.50 | 10.50          | 9.60  | 14.25   | 16 x 19             | 1/2       | 1/2       | 3/4        |
| EXVG015               | 21.50   | 23.00   | 36.00    | 13.25       | 4.75                 | 0.63 | 3.50 | 10.50          | 11.30 | 15.25   | 17 x 20             | 3/4       | 3/4       | 3/4        |
| EXVG018, EXVG/DXVG024 | 21.50   | 26.00   | 38.00    | 13.25       | 6.25                 | 0.63 | 3.50 | 11.80          | 11.30 | 16.25   | 18 x 23             | 3/4       | 3/4       | 3/4        |
| EXVG030, EXVG/DXVG036 | 24.00   | 32.50   | 42.00    | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 3/4        |
| EXVG042, EXVG/DXVG048 | 25.40   | 32.50   | 49.00    | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 27 x 30             | 1         | 1         | 3/4        |
| EXVG/DXVG060-070      | 25.40   | 32.50   | 55.00    | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 30 x 33             | 1         | 1         | 3/4        |

**Note:** Units in a free return application will require more than a 1 in. clearance to provide proper air flow to the unit's air-to-refrigerant coil.



Figure 30. Right return/top supply (EXVG/DXVG)

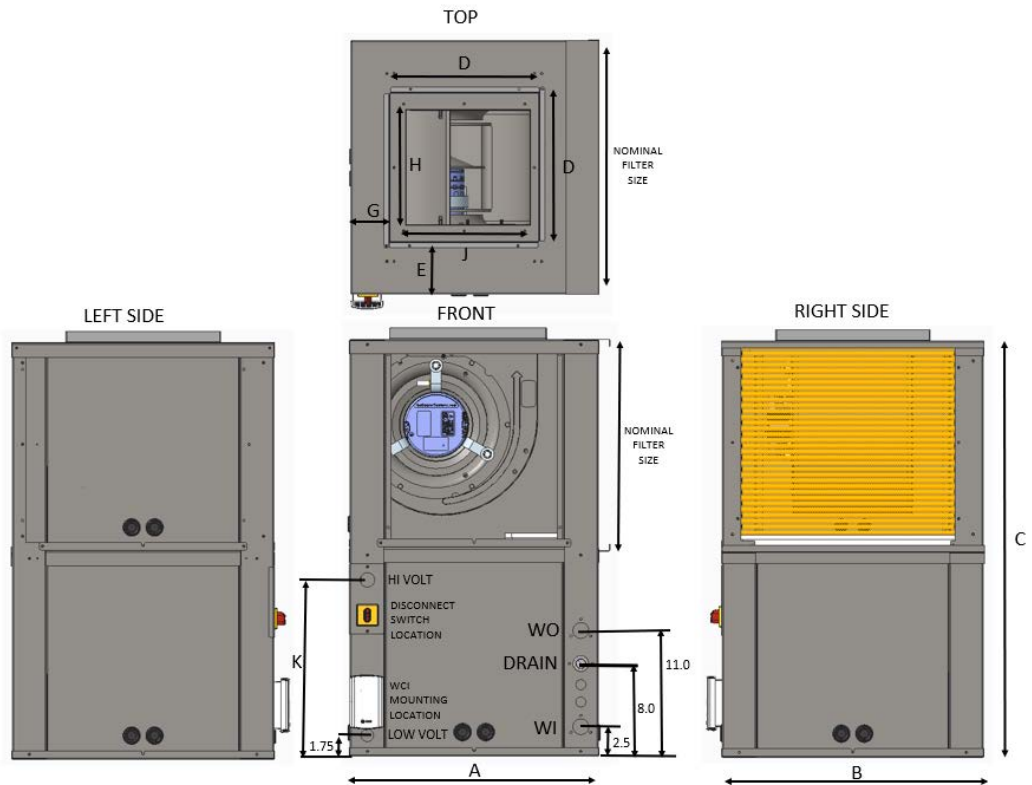
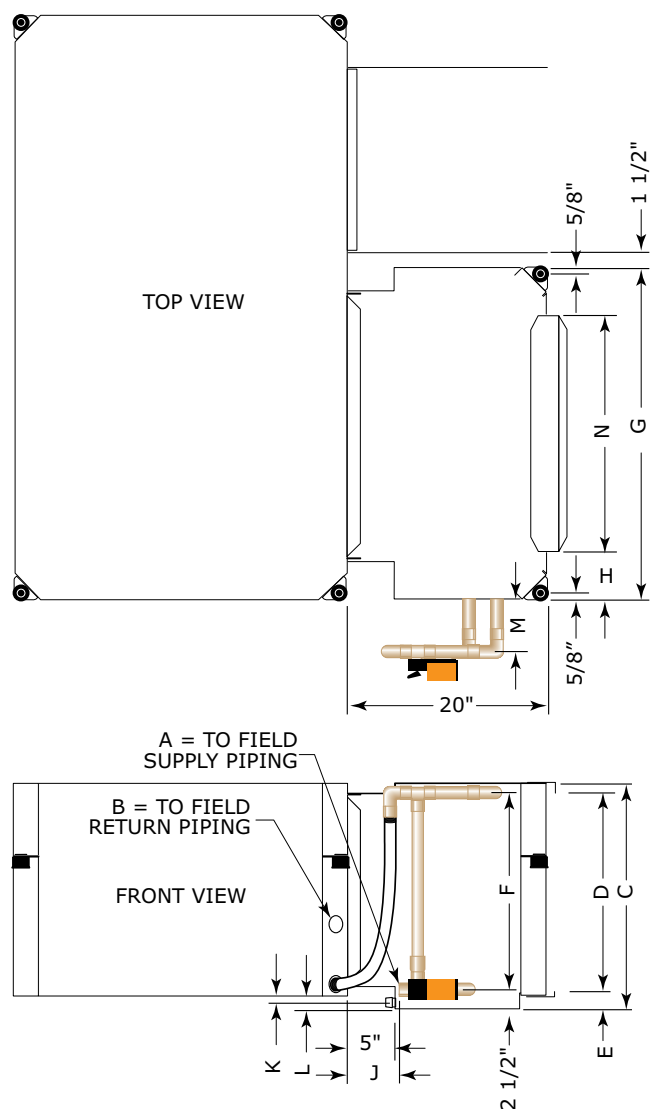


Table 189. Dimensional data right return/top supply (EXVG/DXVG)

| Unit                  | Cabinet |         |          | Duct Collar | Duct Collar Location |      |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|-----------------------|---------|---------|----------|-------------|----------------------|------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|                       | Width A | Depth B | Height C |             | E                    | F    | G    | H              | J     |         |                     |           |           |            |
| EXVG009-012           | 21.50   | 21.50   | 34.00    | 13.25       | 4.00                 | 1.00 | 3.50 | 10.50          | 9.60  | 14.25   | 16 x 19             | 1/2       | 1/2       | 3/4        |
| EXVG015               | 21.50   | 23.00   | 36.00    | 13.25       | 4.75                 | 0.63 | 3.50 | 10.50          | 11.30 | 15.25   | 17 x 20             | 3/4       | 3/4       | 3/4        |
| EXVG018, EXVG/DXVG024 | 21.50   | 26.00   | 38.00    | 13.25       | 6.25                 | 0.63 | 3.50 | 11.80          | 11.30 | 16.25   | 18 x 23             | 3/4       | 3/4       | 3/4        |
| EXVG030, EXVG/DXVG036 | 24.00   | 32.50   | 42.00    | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 3/4        |
| EXVG042, EXVG/DXVG048 | 25.40   | 32.50   | 49.00    | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 27 x 30             | 1         | 1         | 3/4        |
| EXVG/DXVG060-070      | 25.40   | 32.50   | 55.00    | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 30 x 33             | 1         | 1         | 3/4        |

**Note:** Units in a free return application will require more than a 1 in. clearance to provide proper air flow to the unit's air-to-refrigerant coil.

**Figure 31. Waterside economizer<sup>2</sup> (EXHF/DXHF)**

**Table 190. Dimensional data waterside economizer (EXHF/DXHF)**

| Unit   | A NPTI | B NPTI | C      | D      | E     | F      | G      | H     | J     | K     | L     | M     | N      |
|--|--------|--------|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|
| EXHF006-015                                  | 1/2    | 1/2    | 16-7/8 | 13-1/2 | 2-3/4 | 10     | 23-1/2 | 2-1/2 | 6-4/8 | 1     | 1-7/8 | 4     | 18-1/2 |
| EXHF018,<br>EXHF/DXHF024                     | 3/4    | 3/4    | 20-7/8 | 16-5/8 | 3-1/4 | 14     | 25-1/2 | 3-1/2 | 6-3/8 | 2     | 3     | 4     | 18-1/2 |
| EXHF030,<br>EXHF/DXHF036                     | 3/4    | 3/4    | 20-7/8 | 17-1/2 | 2-1/4 | 14     | 29-1/2 | 2-1/4 | 6-3/8 | 1-1/8 | 2     | 4     | 23-1/2 |
| EXHF042-060,<br>DXHF048-060,<br>EXHF/DXHF070 | 1      | 1      | 22-7/8 | 19-5/8 | 2-3/4 | 16-1/2 | 33-1/2 | 5     | 6-1/8 | 1-1/8 | 2     | 4-3/8 | 23-1/2 |

<sup>2</sup> Waterside economizer installation requires field piping.

Figure 32. Waterside economizer (EXVG/DXVG)

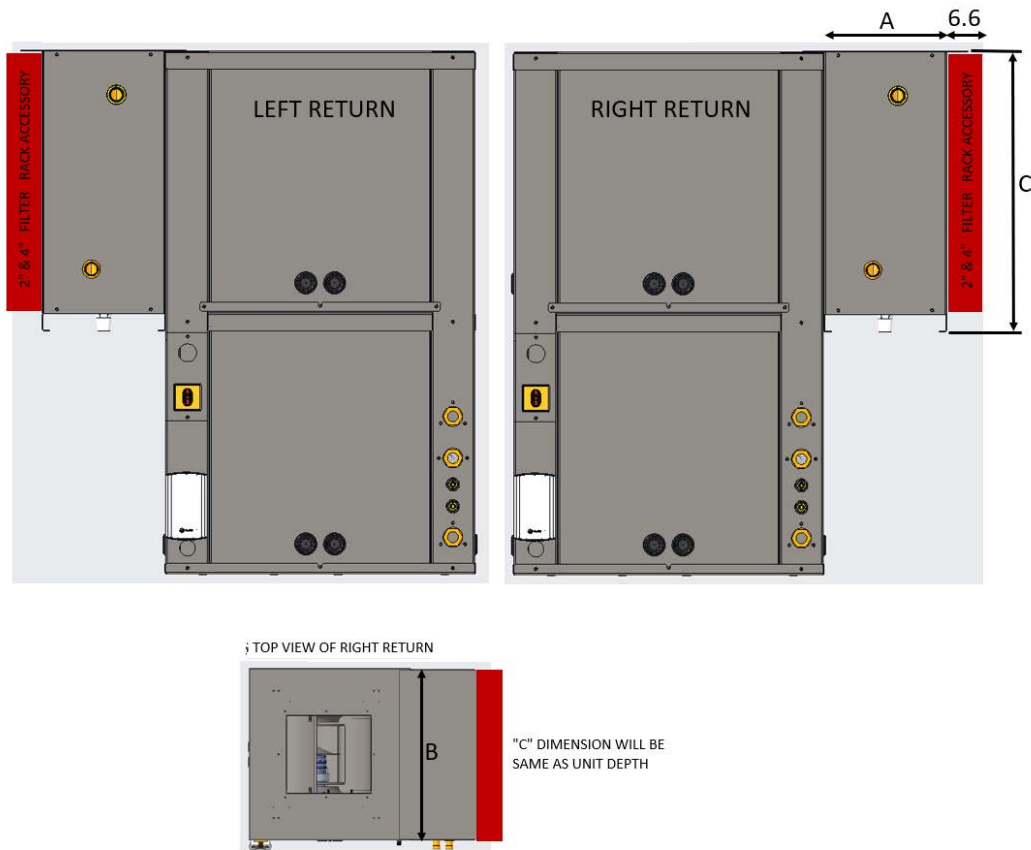
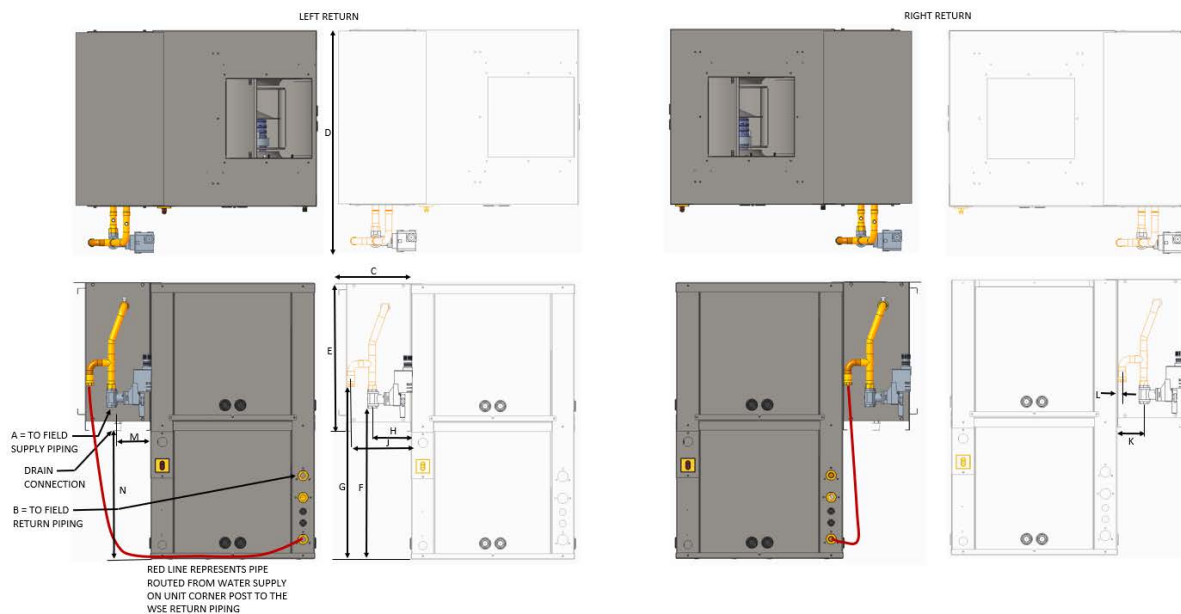


Table 191. Dimensional data waterside economizer (EXVG/DXVG)

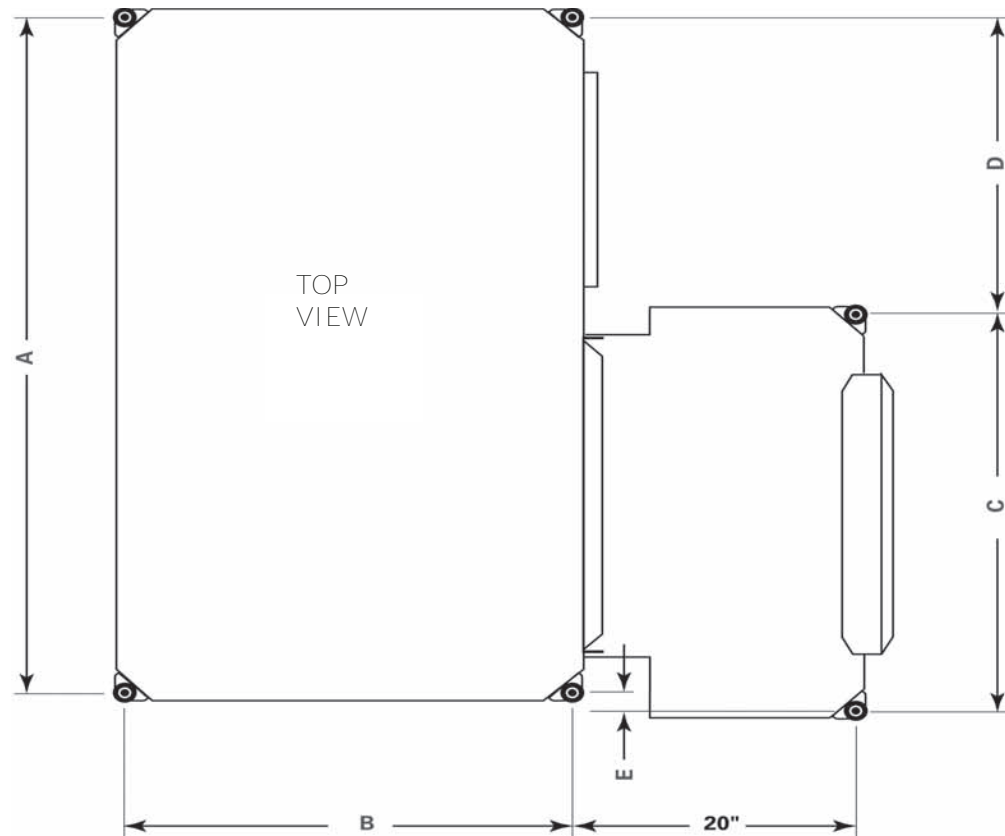
| Unit                 | Cabinet | WSE Dimensions |              |               |
|----------------------|---------|----------------|--------------|---------------|
|                      |         | A<br>(Width)   | B<br>(Depth) | C<br>(Height) |
| EXVG009-012          | B       | 8.5            | 21.5         | 18.25         |
| EXVG015              | C       | 8.5            | 23.0         | 19.25         |
| EXVG018-024, DXVG024 | D       | 8.5            | 26.0         | 22.25         |
| EXVG030-036, DXVG036 | E       | 8.5            | 32.5         | 22.25         |
| EXVG042-048, DXVG048 | F       | 8.5            | 32.5         | 29.25         |
| EXVG/DXVG060-070     | G       | 8.5            | 32.5         | 35.25         |

**Figure 33. Waterside economizer (EXVG/DXVG)**



**Table 192. Dimensional data waterside economizer (EXVG/DXVG)**

| Unit                    | Cabinet | Pipe Size |           | WSE Size   |            |             | Piping Location |             |            |            |            |            | Drain      |             |
|-------------------------|---------|-----------|-----------|------------|------------|-------------|-----------------|-------------|------------|------------|------------|------------|------------|-------------|
|                         |         | A<br>NPTI | B<br>NPTI | C<br>Width | D<br>Depth | E<br>Height | F<br>Height     | G<br>Height | H<br>Width | J<br>Width | K<br>Width | L<br>Width | M<br>Width | N<br>Height |
| EXVG009-012             | B       | 1/2       | 1/2       | 8.5        | 27.5       | 18.25       | 17.75           | 20.75       | 5.0        | 7.88       | 3.5        | 0.63       | 4.25       | 15.75       |
| EXVG015                 | C       | 3/4       | 3/4       | 8.5        | 29.0       | 19.25       | 19.75           | 22.75       | 5.0        | 7.88       | 3.5        | 0.63       | 4.25       | 16.75       |
| EXVG018-024,<br>DXVG024 | D       | 3/4       | 3/4       | 8.5        | 32.0       | 21.75       | 21.75           | 24.75       | 5.0        | 7.88       | 3.5        | 0.63       | 4.25       | 15.75       |
| EXVG030-036,<br>DXVG036 | E       | 1         | 1         | 8.5        | 38.5       | 22.75       | 22.75           | 25.75       | 5.0        | 8          | 3.5        | 0.5        | 4.25       | 19.75       |
| EXVG042-048,<br>DXVG048 | F       | 1         | 1         | 8.5        | 38.5       | 22.75       | 22.75           | 25.75       | 5.0        | 8          | 3.5        | 0.5        | 4.25       | 19.75       |
| EXVG/<br>DXVG060-070    | G       | 1         | 1         | 8.5        | 38.5       | 22.75       | 22.75           | 25.75       | 5.0        | 8          | 3.5        | 0.5        | 4.25       | 19.75       |

**Figure 34. Hanging unit waterside economizer (EXHF/DXHF)**

**Table 193. Dimensional data hanging unit waterside economizer (EXHF/DXHF)**

| Unit   | A      | B      | C      | D      | E   | Hanging Weight | Shipping Weight |
|--|--------|--------|--------|--------|-----|----------------|-----------------|
| EXHF006-015                                  | 38-3/4 | 18-3/4 | 22-1/8 | 17-1/2 | 7/8 | 44 lbs         | 95 lbs          |
| EXHF018,<br>EXHF/DXHF024                     | 44-3/4 | 21-3/4 | 24-1/8 | 20-3/4 | 0   | 52 lbs         | 103 lbs         |
| EXHF030,<br>EXHF/DXHF036                     | 48-3/4 | 23-3/4 | 28-1/8 | 20-5/8 | 0   | 56 lbs         | 107 lbs         |
| EXHF042-060,<br>DXHF048-060,<br>EXHF/DXHF070 | 56-3/4 | 31-3/4 | 32-1/8 | 24-3/4 | 1/8 | 64 lbs         | 113 lbs         |



# Electrical Data

**Table 194. Electrical data - 0.5 to 6 tons, EX\*006-070**

| Model No. | Unit Volts | Total Unit FLA | Comp RLA | Comp LRA | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device | Electric Heat kW | Electric Heat Amps |
|-----------|------------|----------------|----------|----------|------------------|-----------------|--------------------------|---------------------------------------|------------------|--------------------|
| EXHF006   | 208/60/1   | 3.70           | 3.3      | 14.0     | 0.40             | 1/3             | 4.53                     | 15                                    | 0.0              | 0.0                |
| EXHF006   | 208/60/1   | 4.34           | 3.3      | 14.0     | 0.40             | 1/3             | 5.43                     | 15                                    | 0.8              | 3.9                |
| EXHF006   | 230/60/1   | 3.60           | 3.2      | 15.0     | 0.40             | 1/3             | 4.40                     | 15                                    | 0.0              | 0.0                |
| EXHF006   | 230/60/1   | 4.75           | 3.2      | 15.0     | 0.40             | 1/3             | 5.93                     | 15                                    | 1.0              | 4.3                |
| EXHF006   | 265/60/1   | 2.90           | 2.5      | 11.0     | 0.40             | 1/3             | 3.53                     | 15                                    | 0.0              | 0.0                |
| EXHF006   | 265/60/1   | 5.42           | 2.5      | 11.0     | 0.40             | 1/3             | 6.77                     | 15                                    | 1.3              | 5.0                |
| EXHF009   | 208/60/1   | 4.30           | 3.7      | 16.0     | 0.60             | 1/3             | 5.23                     | 15                                    | 0.0              | 0.0                |
| EXHF009   | 208/60/1   | 6.51           | 3.7      | 16.0     | 0.60             | 1/3             | 8.14                     | 15                                    | 1.2              | 5.9                |
| EXHF009   | 230/60/1   | 4.10           | 3.5      | 17.0     | 0.60             | 1/3             | 4.98                     | 15                                    | 0.0              | 0.0                |
| EXHF009   | 230/60/1   | 7.12           | 3.5      | 17.0     | 0.60             | 1/3             | 8.90                     | 15                                    | 1.5              | 6.5                |
| EXHF009   | 265/60/1   | 3.40           | 2.8      | 13.0     | 0.60             | 1/3             | 4.10                     | 15                                    | 0.0              | 0.0                |
| EXHF009   | 265/60/1   | 8.15           | 2.8      | 13.0     | 0.60             | 1/3             | 10.18                    | 15                                    | 2.0              | 7.5                |
| EXHF012   | 208/60/1   | 7.02           | 6.3      | 30.0     | 0.72             | 1/3             | 8.60                     | 15                                    | 0.0              | 0.0                |
| EXHF012   | 208/60/1   | 8.56           | 6.3      | 27.0     | 0.72             | 1/3             | 10.70                    | 15                                    | 1.6              | 7.8                |
| EXHF012   | 230/60/1   | 7.02           | 6.3      | 30.0     | 0.72             | 1/3             | 8.60                     | 15                                    | 0.0              | 0.0                |
| EXHF012   | 230/60/1   | 9.42           | 6.3      | 30.0     | 0.72             | 1/3             | 11.77                    | 15                                    | 2.0              | 8.7                |
| EXHF012   | 265/60/1   | 5.72           | 5.0      | 23.0     | 0.72             | 1/3             | 6.97                     | 15                                    | 0.0              | 0.0                |
| EXHF012   | 265/60/1   | 10.72          | 5.0      | 23.0     | 0.72             | 1/3             | 13.40                    | 15                                    | 2.7              | 10.0               |
| EXHF015   | 208/60/1   | 8.79           | 7.9      | 36.0     | 0.89             | 1/3             | 10.77                    | 15                                    | 0.0              | 0.0                |
| EXHF015   | 208/60/1   | 10.51          | 7.9      | 36.0     | 0.89             | 1/3             | 13.13                    | 15                                    | 2.0              | 9.6                |
| EXHF015   | 230/60/1   | 8.79           | 7.9      | 36.0     | 0.89             | 1/3             | 10.77                    | 15                                    | 0.0              | 0.0                |
| EXHF015   | 230/60/1   | 11.76          | 7.9      | 36.0     | 0.89             | 1/3             | 14.70                    | 15                                    | 2.5              | 10.9               |
| EXHF015   | 265/60/1   | 7.29           | 6.4      | 30.0     | 0.89             | 1/3             | 8.89                     | 15                                    | 0.0              | 0.0                |
| EXHF015   | 265/60/1   | 13.34          | 6.4      | 30.0     | 0.89             | 1/3             | 16.68                    | 20                                    | 3.3              | 12.5               |
| EXHF018   | 208/60/1   | 11.10          | 9.6      | 42.0     | 1.50             | 1/2             | 13.50                    | 20                                    | 0.0              | 0.0                |
| EXHF018   | 208/60/1   | 13.33          | 9.6      | 42.0     | 1.50             | 1/2             | 16.66                    | 20                                    | 2.5              | 11.8               |
| EXHF018   | 230/60/1   | 11.10          | 9.6      | 42.0     | 1.50             | 1/2             | 13.50                    | 20                                    | 0.0              | 0.0                |
| EXHF018   | 230/60/1   | 14.54          | 9.6      | 42.0     | 1.50             | 1/2             | 18.18                    | 20                                    | 3.0              | 13.0               |
| EXHF018   | 265/60/1   | 9.00           | 7.7      | 35.0     | 1.30             | 1/2             | 10.93                    | 15                                    | 0.0              | 0.0                |
| EXHF018   | 265/60/1   | 16.39          | 7.7      | 35.0     | 1.30             | 1/2             | 20.49                    | 25                                    | 4.0              | 15.1               |
| EXHF024   | 208/60/1   | 15.70          | 13.5     | 58.3     | 2.20             | 1/2             | 19.08                    | 30                                    | 0.0              | 0.0                |
| EXHF024   | 208/60/1   | 17.87          | 13.5     | 58.3     | 2.20             | 1/2             | 22.34                    | 30                                    | 3.3              | 15.7               |
| EXHF024   | 230/60/1   | 15.70          | 13.5     | 58.3     | 2.20             | 1/2             | 19.08                    | 30                                    | 0.0              | 0.0                |
| EXHF024   | 230/60/1   | 19.59          | 13.5     | 58.3     | 2.20             | 1/2             | 24.49                    | 30                                    | 4.0              | 17.4               |
| EXHF024   | 265/60/1   | 10.10          | 9.0      | 54.0     | 1.10             | 1/2             | 12.35                    | 20                                    | 0.0              | 0.0                |
| EXHF024   | 265/60/1   | 21.10          | 9.0      | 54.0     | 1.10             | 1/2             | 26.38                    | 30                                    | 5.3              | 20.0               |
| EXHF030   | 208/60/1   | 17.30          | 14.1     | 77.0     | 3.20             | 1/2             | 20.83                    | 30                                    | 0.0              | 0.0                |
| EXHF030   | 208/60/1   | 26.76          | 14.1     | 77.0     | 3.20             | 1/2             | 33.45                    | 35                                    | 4.9              | 23.6               |
| EXHF030   | 230/60/1   | 17.30          | 14.1     | 77.0     | 3.20             | 1/2             | 20.83                    | 30                                    | 0.0              | 0.0                |

**Table 194. Electrical data - 0.5 to 6 tons, EX\*006-070 (continued)**

| Model No. | Unit Volts | Total Unit FLA | Comp RLA | Comp LRA | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device | Electric Heat kW | Electric Heat Amps |
|-----------|------------|----------------|----------|----------|------------------|-----------------|--------------------------|---------------------------------------|------------------|--------------------|
| EXHF030   | 230/60/1   | 29.29          | 14.1     | 77.0     | 3.20             | 1/2             | 36.61                    | 40                                    | 6.0              | 26.1               |
| EXHF030   | 265/60/1   | 13.70          | 10.9     | 60.0     | 2.80             | 1/2             | 16.43                    | 25                                    | 0.0              | 0.0                |
| EXHF030   | 265/60/1   | 32.80          | 10.9     | 60.0     | 2.80             | 1/2             | 41.00                    | 45                                    | 8.0              | 30.0               |
| EXHF036   | 208/60/1   | 18.10          | 14.1     | 77.0     | 4.00             | 3/4             | 21.63                    | 35                                    | 0.0              | 0.0                |
| EXHF036   | 208/60/1   | 27.56          | 14.1     | 77.0     | 4.00             | 3/4             | 34.45                    | 35                                    | 4.9              | 23.6               |
| EXHF036   | 230/60/1   | 18.10          | 14.1     | 77.0     | 4.00             | 3/4             | 21.63                    | 35                                    | 0.0              | 0.0                |
| EXHF036   | 230/60/1   | 30.09          | 14.1     | 77.0     | 4.00             | 3/4             | 37.61                    | 40                                    | 6.0              | 26.1               |
| EXHF036   | 265/60/1   | 15.70          | 12.2     | 72.0     | 3.50             | 3/4             | 18.75                    | 30                                    | 0.0              | 0.0                |
| EXHF036   | 265/60/1   | 33.50          | 12.2     | 72.0     | 3.50             | 3/4             | 41.88                    | 45                                    | 8.0              | 30.0               |
| EXHF036   | 208/60/3   | 13.00          | 9.0      | 71.0     | 4.00             | 3/4             | 15.25                    | 20                                    | 0.0              | 0.0                |
| EXHF036   | 208/60/3   | 17.60          | 9.0      | 71.0     | 4.00             | 3/4             | 22.00                    | 25                                    | 4.9              | 13.6               |
| EXHF036   | 230/60/3   | 13.00          | 9.0      | 71.0     | 4.00             | 3/4             | 15.25                    | 20                                    | 0.0              | 0.0                |
| EXHF036   | 230/60/3   | 19.06          | 9.0      | 71.0     | 4.00             | 3/4             | 23.83                    | 25                                    | 6.0              | 15.1               |
| EXHF036   | 460/60/3   | 9.10           | 5.6      | 38.0     | 3.50             | 3/4             | 10.50                    | 15                                    | 0.0              | 0.0                |
| EXHF036   | 460/60/3   | 13.48          | 5.6      | 38.0     | 3.50             | 3/4             | 16.85                    | 20                                    | 8.0              | 10.0               |
| EXHF042   | 208/60/1   | 22.30          | 17.9     | 112.0    | 4.40             | 3/4             | 26.78                    | 40                                    | 0.0              | 0.0                |
| EXHF042   | 208/60/1   | 35.65          | 17.9     | 112.0    | 4.40             | 3/4             | 44.56                    | 45                                    | 6.5              | 31.3               |
| EXHF042   | 230/60/1   | 22.30          | 17.9     | 112.0    | 4.40             | 3/4             | 26.78                    | 40                                    | 0.0              | 0.0                |
| EXHF042   | 230/60/1   | 39.18          | 17.9     | 112.0    | 4.40             | 3/4             | 48.98                    | 50                                    | 8.0              | 34.8               |
| EXHF042   | 208/60/3   | 17.60          | 13.2     | 88.0     | 4.40             | 3/4             | 20.90                    | 30                                    | 0.0              | 0.0                |
| EXHF042   | 208/60/3   | 22.44          | 13.2     | 88.0     | 4.40             | 3/4             | 28.05                    | 30                                    | 6.5              | 18.0               |
| EXHF042   | 230/60/3   | 17.60          | 13.2     | 88.0     | 4.40             | 3/4             | 20.90                    | 30                                    | 0.0              | 0.0                |
| EXHF042   | 230/60/3   | 24.48          | 13.2     | 88.0     | 4.40             | 3/4             | 30.60                    | 35                                    | 8.0              | 20.1               |
| EXHF042   | 460/60/3   | 9.80           | 6.0      | 44.0     | 3.80             | 3/4             | 11.30                    | 15                                    | 0.0              | 0.0                |
| EXHF042   | 460/60/3   | 17.10          | 6.0      | 44.0     | 3.80             | 3/4             | 21.38                    | 25                                    | 10.6             | 13.3               |
| EXHF048   | 208/60/1   | 25.00          | 19.9     | 109.0    | 5.10             | 3/4             | 29.98                    | 45                                    | 0.0              | 0.0                |
| EXHF048   | 208/60/1   | 36.35          | 19.9     | 109.0    | 5.10             | 3/4             | 45.44                    | 50                                    | 6.5              | 31.3               |
| EXHF048   | 230/60/1   | 25.00          | 19.9     | 109.0    | 5.10             | 3/4             | 29.98                    | 45                                    | 0.0              | 0.0                |
| EXHF048   | 230/60/1   | 39.88          | 19.9     | 109.0    | 5.10             | 3/4             | 49.85                    | 50                                    | 8.0              | 34.8               |
| EXHF048   | 208/60/3   | 18.20          | 13.1     | 83.1     | 5.10             | 3/4             | 21.48                    | 30                                    | 0.0              | 0.0                |
| EXHF048   | 208/60/3   | 23.14          | 13.1     | 83.1     | 5.10             | 3/4             | 28.93                    | 30                                    | 6.5              | 18.0               |
| EXHF048   | 230/60/3   | 18.20          | 13.1     | 83.1     | 5.10             | 3/4             | 21.48                    | 30                                    | 0.0              | 0.0                |
| EXHF048   | 230/60/3   | 25.18          | 13.1     | 83.1     | 5.10             | 3/4             | 31.48                    | 35                                    | 8.0              | 20.1               |
| EXHF048   | 460/60/3   | 10.50          | 6.1      | 41.0     | 4.40             | 3/4             | 12.03                    | 15                                    | 0.0              | 0.0                |
| EXHF048   | 460/60/3   | 17.70          | 6.1      | 41.0     | 4.40             | 3/4             | 22.13                    | 25                                    | 10.6             | 13.3               |
| EXHF060   | 208/60/1   | 34.40          | 26.4     | 134.0    | 8.00             | 1               | 41.00                    | 60                                    | 0.0              | 0.0                |
| EXHF060   | 208/60/1   | 39.25          | 26.4     | 134.0    | 8.00             | 1               | 49.06                    | 60                                    | 6.5              | 31.3               |
| EXHF060   | 230/60/1   | 34.40          | 26.4     | 134.0    | 8.00             | 1               | 41.00                    | 60                                    | 0.0              | 0.0                |
| EXHF060   | 230/60/1   | 42.78          | 26.4     | 134.0    | 8.00             | 1               | 53.48                    | 60                                    | 8.0              | 34.8               |
| EXHF060   | 208/60/3   | 24.00          | 16.0     | 110.0    | 8.00             | 1               | 28.00                    | 40                                    | 0.0              | 0.0                |
| EXHF060   | 208/60/3   | 26.04          | 16.0     | 110.0    | 8.00             | 1               | 32.55                    | 40                                    | 6.5              | 18.0               |



## Electrical Data

**Table 194. Electrical data - 0.5 to 6 tons, EX\*006-070 (continued)**

| Model No. | Unit Volts   | Total Unit FLA | Comp RLA | Comp LRA | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device | Electric Heat kW | Electric Heat Amps |
|-----------|--------------|----------------|----------|----------|------------------|-----------------|--------------------------|---------------------------------------|------------------|--------------------|
| EXHF060   | 230/60/3     | 24.00          | 16.0     | 110.0    | 8.00             | 1               | 28.00                    | 40                                    | 0.0              | 0.0                |
| EXHF060   | 230/60/3     | 28.08          | 16.0     | 110.0    | 8.00             | 1               | 35.10                    | 40                                    | 8.0              | 20.1               |
| EXHF060   | 460/60/3     | 14.70          | 7.8      | 52.0     | 6.90             | 1               | 16.65                    | 20                                    | 0.0              | 0.0                |
| EXHF060   | 460/60/3     | 20.20          | 7.8      | 52.0     | 6.90             | 1               | 25.26                    | 30                                    | 10.6             | 13.3               |
| EXHF070   | 208/60/1     | 35.30          | 28.3     | 178.0    | 7.00             | 1               | 42.38                    | 70                                    | 0.0              | 0.0                |
| EXHF070   | 208/60/1     | 38.30          | 28.3     | 178.0    | 7.00             | 1               | 47.81                    | 70                                    | 6.5              | 31.3               |
| EXHF070   | 230/60/1     | 35.30          | 28.3     | 178.0    | 7.00             | 1               | 42.38                    | 70                                    | 0.0              | 0.0                |
| EXHF070   | 230/60/1     | 41.80          | 28.3     | 178.0    | 7.00             | 1               | 52.23                    | 70                                    | 8.0              | 34.8               |
| EXHF070   | 208/60/3     | 26.20          | 19.2     | 136.0    | 7.00             | 1               | 31.00                    | 50                                    | 0.0              | 0.0                |
| EXHF070   | 208/60/3     | 26.20          | 19.2     | 136.0    | 7.00             | 1               | 31.30                    | 50                                    | 6.5              | 18.0               |
| EXHF070   | 230/60/3     | 26.20          | 19.2     | 136.0    | 7.00             | 1               | 31.00                    | 50                                    | 0.0              | 0.0                |
| EXHF070   | 230/60/3     | 27.10          | 19.2     | 136.0    | 7.00             | 1               | 33.85                    | 50                                    | 8.0              | 20.1               |
| EXHF070   | 460/60/3     | 14.80          | 8.7      | 66.1     | 6.10             | 1               | 16.98                    | 25                                    | 0.0              | 0.0                |
| EXHF070   | 460/60/3     | 19.40          | 8.7      | 66.1     | 6.10             | 1               | 24.26                    | 25                                    | 10.6             | 13.3               |
| EXVG009   | 208-230/60/1 | 4.2            | 3.6      | 27.0     | 0.6              | 1/3             | 6/6                      | 15/15                                 | 0.0              | 0.0                |
| EXVG009   | 265/60/1     | 3.5            | 3.0      | 22.0     | 0.5              | 1/3             | 5                        | 15                                    | 0.0              | 0.0                |
| EXVG012   | 208-230/60/1 | 6.6            | 5.7      | 27.0     | 0.9              | 1/3             | 8/8                      | 15/15                                 | 0.0              | 0.0                |
| EXVG012   | 265/60/1     | 5.3            | 4.5      | 32.0     | 0.8              | 1/3             | 7                        | 15                                    | 0.0              | 0.0                |
| EXVG015   | 208-230/60/1 | 8.1            | 7.3      | 36.0     | 0.8              | 1/3             | 10/10                    | 15/15                                 | 0.0              | 0.0                |
| EXVG015   | 265/60/1     | 5.5            | 4.8      | 30.0     | 0.7              | 1/3             | 7                        | 15                                    | 0.0              | 0.0                |
| EXVG018   | 208-230/60/1 | 9.8            | 8.5      | 38.0     | 1.3              | 1/2             | 12/12                    | 20/20                                 | 0.0              | 0.0                |
| EXVG018   | 265/60/1     | 7.9            | 6.8      | 35.0     | 1.1              | 1/2             | 10                       | 15                                    | 0.0              | 0.0                |
| EXVG024   | 208-230/60/1 | 15.2           | 13.5     | 58.3     | 1.7              | 1/2             | 19/19                    | 30/30                                 | 0.0              | 0.0                |
| EXVG024   | 265/60/1     | 10.5           | 9.0      | 54.0     | 1.5              | 1/2             | 13                       | 20                                    | 0.0              | 0.0                |
| EXVG024   | 208-230/60/3 | 8.8            | 7.1      | 55.4     | 1.7              | 1/2             | 11/11                    | 15/15                                 | 0.0              | 0.0                |
| EXVG024   | 460/60/3     | 4.4            | 3.5      | 28.0     | 0.9              | 1/2             | 6                        | 15                                    | 0.0              | 0.0                |
| EXVG030   | 208-230/60/1 | 15.6           | 14.1     | 73.0     | 1.5              | 3/4             | 20/20                    | 30/30                                 | 0.0              | 0.0                |
| EXVG030   | 265/60/1     | 12.5           | 11.2     | 60.0     | 1.3              | 3/4             | 16                       | 25                                    | 0.0              | 0.0                |
| EXVG030   | 208-230/60/3 | 10.4           | 8.9      | 58.0     | 1.5              | 3/4             | 13/13                    | 20/20                                 | 0.0              | 0.0                |
| EXVG030   | 460/60/3     | 5.0            | 4.2      | 28.0     | 0.8              | 3/4             | 7                        | 15                                    | 0.0              | 0.0                |
| EXVG036   | 208-230/60/1 | 18.0           | 16.0     | 77.0     | 2.0              | 3/4             | 23/23                    | 35/35                                 | 0.0              | 0.0                |
| EXVG036   | 265/60/1     | 13.9           | 12.2     | 72.0     | 1.7              | 3/4             | 17                       | 25                                    | 0.0              | 0.0                |
| EXVG036   | 208-230/60/3 | 12.0           | 10.0     | 71.0     | 2.0              | 3/4             | 15/15                    | 20/20                                 | 0.0              | 0.0                |
| EXVG036   | 460/60/3     | 5.7            | 4.7      | 38.0     | 1.0              | 1               | 7                        | 15                                    | 0.0              | 0.0                |
| EXVG042   | 208-230/60/1 | 19.9           | 16.7     | 79.0     | 3.2              | 3/4             | 25/25                    | 40/40                                 | 0.0              | 0.0                |
| EXVG042   | 208-230/60/3 | 13.6           | 10.4     | 73.0     | 3.2              | 3/4             | 17/17                    | 25/25                                 | 0.0              | 0.0                |
| EXVG042   | 460/60/3     | 7.4            | 5.8      | 38.0     | 1.6              | 1               | 9                        | 15                                    | 0.0              | 0.0                |
| EXVG048   | 208-230/60/1 | 20.5           | 17.9     | 112.0    | 2.6              | 1               | 25/25                    | 40/40                                 | 0.0              | 0.0                |
| EXVG048   | 208-230/60/3 | 16.1           | 13.5     | 88.0     | 2.6              | 1               | 20/20                    | 30/30                                 | 0.0              | 0.0                |
| EXVG048   | 460/60/3     | 7.3            | 6.0      | 44.0     | 1.3              | 1               | 9                        | 15                                    | 0.0              | 0.0                |
| EXVG060   | 208-230/60/1 | 25.2           | 21.4     | 135.0    | 3.8              | 1               | 31/31                    | 50/50                                 | 0.0              | 0.0                |



**Table 194. Electrical data - 0.5 to 6 tons, EX\*006-070 (continued)**

| Model No. | Unit Volts   | Total Unit FLA | Comp RLA | Comp LRA | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device | Electric Heat kW | Electric Heat Amps |
|-----------|--------------|----------------|----------|----------|------------------|-----------------|--------------------------|---------------------------------------|------------------|--------------------|
| EXVG060   | 208-230/60/3 | 18.3           | 14.5     | 98.0     | 3.8              | 1               | 22/22                    | 35/35                                 | 0.0              | 0.0                |
| EXVG060   | 460/60/3     | 8.2            | 6.3      | 55.0     | 1.9              | 1               | 10                       | 15                                    | 0.0              | 0.0                |
| EXVG070   | 208-230/60/1 | 31.4           | 26.4     | 134.0    | 5.0              | 1               | 39/39                    | 60/60                                 | 0.0              | 0.0                |
| EXVG070   | 208-230/60/3 | 21.0           | 16.0     | 110.0    | 5.0              | 1               | 26/26                    | 40/40                                 | 0.0              | 0.0                |
| EXVG070   | 460/60/3     | 10.3           | 7.8      | 52.0     | 2.5              | 1               | 13                       | 20                                    | 0.0              | 0.0                |

**Table 195. Electrical data - 2 to 6 tons, DX\*024-070**

| Model No. | Unit Volts | Total Unit FLA | Comp RLA | Comp LRA | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device | Electric Heat kW | Electric Heat Amps |
|-----------|------------|----------------|----------|----------|------------------|-----------------|--------------------------|---------------------------------------|------------------|--------------------|
| DXHF024   | 208/60/1   | 15.0           | 13.0     | 58.3     | 2.0              | 1/3             | 18.25                    | 30                                    | 0.0              | 0.0                |
| DXHF024   | 208/60/1   | 17.7           | 13.0     | 58.3     | 2.0              | 1/3             | 22.09                    | 30                                    | 3.3              | 15.7               |
| DXHF024   | 230/60/1   | 15.0           | 13.0     | 58.3     | 2.0              | 1/3             | 18.25                    | 30                                    | 0.0              | 0.0                |
| DXHF024   | 230/60/1   | 19.4           | 13.0     | 58.3     | 2.0              | 1/3             | 24.24                    | 30                                    | 4.0              | 17.4               |
| DXHF024   | 265/60/1   | 12.1           | 10.1     | 54.0     | 2.0              | 1/3             | 14.63                    | 20                                    | 0.0              | 0.0                |
| DXHF024   | 265/60/1   | 22.0           | 10.1     | 54.0     | 2.0              | 1/3             | 27.50                    | 30                                    | 5.3              | 20.0               |
| DXHF024   | 208/60/3   | 9.2            | 7.2      | 55.4     | 2.0              | 1/3             | 11.00                    | 15                                    | 0.0              | 0.0                |
| DXHF024   | 208/60/3   | 11.0           | 7.2      | 55.4     | 2.0              | 1/3             | 13.81                    | 15                                    | 3.3              | 9.0                |
| DXHF024   | 230/60/3   | 9.2            | 7.2      | 55.4     | 2.0              | 1/3             | 11.00                    | 15                                    | 0.0              | 0.0                |
| DXHF024   | 230/60/3   | 12.0           | 7.2      | 55.4     | 2.0              | 1/3             | 15.05                    | 20                                    | 4.0              | 10.0               |
| DXHF024   | 460/60/3   | 5.9            | 3.9      | 28.0     | 2.0              | 1/3             | 6.88                     | 15                                    | 0.0              | 0.0                |
| DXHF024   | 460/60/3   | 8.7            | 3.9      | 28.0     | 2.0              | 1/3             | 10.82                    | 15                                    | 5.3              | 6.7                |
| DXHF036   | 208/60/1   | 19.7           | 17.0     | 83.0     | 2.7              | 3/4             | 23.95                    | 40                                    | 0.0              | 0.0                |
| DXHF036   | 208/60/1   | 26.3           | 17.0     | 83.0     | 2.7              | 3/4             | 32.82                    | 40                                    | 4.9              | 23.6               |
| DXHF036   | 230/60/1   | 19.7           | 17.0     | 83.0     | 2.7              | 3/4             | 23.95                    | 40                                    | 0.0              | 0.0                |
| DXHF036   | 230/60/1   | 28.8           | 17.0     | 83.0     | 2.7              | 3/4             | 35.98                    | 40                                    | 6.0              | 26.1               |
| DXHF036   | 265/60/1   | 17.2           | 14.5     | 72.0     | 2.7              | 3/4             | 20.83                    | 35                                    | 0.0              | 0.0                |
| DXHF036   | 265/60/1   | 32.7           | 14.5     | 72.0     | 2.7              | 3/4             | 40.88                    | 45                                    | 8.0              | 30.0               |
| DXHF036   | 208/60/3   | 15.6           | 12.9     | 73.0     | 2.7              | 3/4             | 18.83                    | 30                                    | 0.0              | 0.0                |
| DXHF036   | 208/60/3   | 16.3           | 12.9     | 73.0     | 2.7              | 3/4             | 20.38                    | 30                                    | 4.9              | 13.6               |
| DXHF036   | 230/60/3   | 15.6           | 12.9     | 73.0     | 2.7              | 3/4             | 18.83                    | 30                                    | 0.0              | 0.0                |
| DXHF036   | 230/60/3   | 17.8           | 12.9     | 73.0     | 2.7              | 3/4             | 22.20                    | 30                                    | 6.0              | 15.1               |
| DXHF036   | 460/60/3   | 9.1            | 6.4      | 38.0     | 2.7              | 3/4             | 10.70                    | 15                                    | 0.0              | 0.0                |
| DXHF036   | 460/60/3   | 12.7           | 6.4      | 38.0     | 2.7              | 3/4             | 15.85                    | 20                                    | 8.0              | 10.0               |
| DXHF048   | 208/60/1   | 26.5           | 23.6     | 104.0    | 2.9              | 3/4             | 32.40                    | 50                                    | 0.0              | 0.0                |
| DXHF048   | 208/60/1   | 34.2           | 23.6     | 104.0    | 2.9              | 3/4             | 42.69                    | 50                                    | 6.5              | 31.3               |
| DXHF048   | 230/60/1   | 26.5           | 23.6     | 104.0    | 2.9              | 3/4             | 32.40                    | 50                                    | 0.0              | 0.0                |
| DXHF048   | 230/60/1   | 37.7           | 23.6     | 104.0    | 2.9              | 3/4             | 47.10                    | 50                                    | 8.0              | 34.8               |
| DXHF048   | 208/60/3   | 18.5           | 15.6     | 83.1     | 2.9              | 3/4             | 22.40                    | 35                                    | 0.0              | 0.0                |
| DXHF048   | 208/60/3   | 20.9           | 15.6     | 83.1     | 2.9              | 3/4             | 26.18                    | 35                                    | 6.5              | 18.0               |
| DXHF048   | 230/60/3   | 18.5           | 15.6     | 83.1     | 2.9              | 3/4             | 22.40                    | 35                                    | 0.0              | 0.0                |



## Electrical Data

**Table 195. Electrical data - 2 to 6 tons, DX\*024-070 (continued)**

| Model No. | Unit Volts   | Total Unit FLA | Comp RLA | Comp LRA | Blower Motor FLA | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device | Electric Heat kW | Electric Heat Amps |
|-----------|--------------|----------------|----------|----------|------------------|-----------------|--------------------------|---------------------------------------|------------------|--------------------|
| DXHF048   | 230/60/3     | 23.0           | 15.6     | 83.1     | 2.9              | 3/4             | 28.73                    | 35                                    | 8.0              | 20.1               |
| DXHF048   | 460/60/3     | 10.0           | 7.1      | 41.0     | 2.9              | 3/4             | 11.78                    | 15                                    | 0.0              | 0.0                |
| DXHF048   | 460/60/3     | 16.2           | 7.1      | 41.0     | 2.9              | 3/4             | 20.26                    | 25                                    | 10.6             | 13.3               |
| DXHF060   | 208/60/1     | 36.2           | 30.2     | 152.9    | 6.0              | 1               | 43.75                    | 70                                    | 0.0              | 0.0                |
| DXHF060   | 208/60/1     | 37.3           | 30.2     | 152.9    | 6.0              | 1               | 46.56                    | 70                                    | 6.5              | 31.3               |
| DXHF060   | 230/60/1     | 36.2           | 30.2     | 152.9    | 6.0              | 1               | 43.75                    | 70                                    | 0.0              | 0.0                |
| DXHF060   | 230/60/1     | 40.8           | 30.2     | 152.9    | 6.0              | 1               | 50.98                    | 70                                    | 8.0              | 34.8               |
| DXHF060   | 208/60/3     | 24.4           | 18.4     | 110.0    | 6.0              | 1               | 29.00                    | 45                                    | 0.0              | 0.0                |
| DXHF060   | 208/60/3     | 24.4           | 18.4     | 110.0    | 6.0              | 1               | 30.05                    | 45                                    | 6.5              | 18.0               |
| DXHF060   | 230/60/3     | 24.4           | 18.4     | 110.0    | 6.0              | 1               | 29.00                    | 45                                    | 0.0              | 0.0                |
| DXHF060   | 230/60/3     | 26.1           | 18.4     | 110.0    | 6.0              | 1               | 32.60                    | 45                                    | 8.0              | 20.1               |
| DXHF060   | 460/60/3     | 14.1           | 8.1      | 52.0     | 6.0              | 1               | 16.13                    | 20                                    | 0.0              | 0.0                |
| DXHF060   | 460/60/3     | 19.3           | 8.1      | 52.0     | 6.0              | 1               | 24.13                    | 25                                    | 10.6             | 13.3               |
| DXHF070   | 208/60/1     | 39.8           | 33.1     | 179.2    | 6.7              | 1               | 48.08                    | 80                                    | 0.0              | 0.0                |
| DXHF070   | 208/60/1     | 39.8           | 33.1     | 179.2    | 6.7              | 1               | 48.08                    | 80                                    | 6.5              | 31.3               |
| DXHF070   | 230/60/1     | 39.8           | 33.1     | 179.2    | 6.7              | 1               | 48.08                    | 80                                    | 0.0              | 0.0                |
| DXHF070   | 230/60/1     | 41.5           | 33.1     | 179.2    | 6.7              | 1               | 51.85                    | 80                                    | 8.0              | 34.8               |
| DXHF070   | 208/60/3     | 26.3           | 19.6     | 136.0    | 6.7              | 1               | 31.20                    | 50                                    | 0.0              | 0.0                |
| DXHF070   | 208/60/3     | 26.3           | 19.6     | 136.0    | 6.7              | 1               | 31.20                    | 50                                    | 6.5              | 18.0               |
| DXHF070   | 230/60/3     | 26.3           | 19.6     | 136.0    | 6.7              | 1               | 31.20                    | 50                                    | 0.0              | 0.0                |
| DXHF070   | 230/60/3     | 26.8           | 19.6     | 136.0    | 6.7              | 1               | 33.48                    | 50                                    | 8.0              | 20.1               |
| DXHF070   | 460/60/3     | 16.1           | 9.4      | 66.1     | 6.7              | 1               | 18.45                    | 25                                    | 0.0              | 0.0                |
| DXHF070   | 460/60/3     | 20.0           | 9.4      | 66.1     | 6.7              | 1               | 25.01                    | 30                                    | 10.6             | 13.3               |
| DXVG024   | 208-230/60/1 | 13.3           | 11.7     | 58.3     | 1.6              | 1/2             | 17/17                    | 25/25                                 | 0.0              | 0.0                |
| DXVG024   | 265/60/1     | 10.5           | 9.1      | 54.0     | 1.4              | 1/2             | 13                       | 20                                    | 0.0              | 0.0                |
| DXVG024   | 208-230/60/3 | 8.1            | 6.5      | 55.4     | 1.6              | 1/2             | 10/10                    | 15/15                                 | 0.0              | 0.0                |
| DXVG024   | 460/60/3     | 4.3            | 3.5      | 28.0     | 0.8              | 1/2             | 6                        | 15                                    | 0.0              | 0.0                |
| DXVG036   | 208-230/60/1 | 15.1           | 13.1     | 73.0     | 2.0              | 3/4             | 19/19                    | 30/30                                 | 0.0              | 0.0                |
| DXVG036   | 265/60/1     | 11.9           | 10.2     | 60.0     | 1.7              | 3/4             | 15                       | 20                                    | 0.0              | 0.0                |
| DXVG036   | 208-230/60/3 | 10.7           | 8.7      | 58.0     | 2.0              | 3/4             | 13/13                    | 20/20                                 | 0.0              | 0.0                |
| DXVG036   | 460/60/3     | 5.3            | 4.3      | 28.0     | 1.0              | 1               | 7                        | 15                                    | 0.0              | 0.0                |
| DXVG048   | 208-230/60/1 | 20.4           | 17.9     | 96.0     | 2.5              | 1               | 25/25                    | 40/40                                 | 0.0              | 0.0                |
| DXVG048   | 208-230/60/3 | 16.7           | 14.2     | 88.0     | 2.5              | 1               | 21/21                    | 30/30                                 | 0.0              | 0.0                |
| DXVG048   | 460/60/3     | 7.5            | 6.2      | 44.0     | 1.3              | 1               | 10                       | 15                                    | 0.0              | 0.0                |
| DXVG060   | 208-230/60/1 | 25.0           | 21.2     | 104.0    | 3.8              | 1               | 31/31                    | 50/50                                 | 0.0              | 0.0                |
| DXVG060   | 208-230/60/3 | 17.8           | 14.0     | 83.1     | 3.8              | 1               | 22/22                    | 35/35                                 | 0.0              | 0.0                |
| DXVG060   | 460/60/3     | 8.3            | 6.4      | 41.0     | 1.9              | 1               | 10                       | 15                                    | 0.0              | 0.0                |
| DXVG070   | 208-230/60/1 | 31.9           | 26.9     | 139.9    | 5.0              | 1               | 39/39                    | 60/60                                 | 0.0              | 0.0                |
| DXVG070   | 208-230/60/3 | 21.5           | 16.5     | 110.0    | 5.0              | 1               | 26/26                    | 40/40                                 | 0.0              | 0.0                |
| DXVG070   | 460/60/3     | 9.7            | 7.2      | 52.0     | 2.5              | 1               | 12                       | 15                                    | 0.0              | 0.0                |

**Table 196. Electrical data - minimum and maximum**

| Digit 8 | Rated Voltage | Hz | Ph | Minimum Utilization Voltage | Maximum Utilization Voltage |
|---------|---------------|----|----|-----------------------------|-----------------------------|
| 1       | 208           | 60 | 1  | 197                         | 229                         |
| 2       | 230           | 60 | 1  | 207                         | 253                         |
| 3       | 208           | 60 | 3  | 187                         | 229                         |
| 4       | 460           | 60 | 3  | 414                         | 506                         |
| 7       | 265           | 60 | 1  | 239                         | 292                         |
| 8       | 230           | 60 | 3  | 207                         | 253                         |
| A       | 208-230       | 60 | 1  | 197                         | 253                         |
| B       | 208-230       | 60 | 3  | 187                         | 253                         |



# Mechanical Specifications

## General

Equipment shall be completely assembled, piped, internally wired, fully charged with R-410A and test operated at the factory. Filters, thermostat field interface Terminal Plug (TP1), and all safety controls are furnished and factory installed. The system water inlet and outlet connections shall be an inside-thread NPT composed of either copper or a bronze option. The equipment shall contain ETL-US-C, and AHRI-ISO 13256-1 listings and labels prior to leaving the factory.

Units meet the efficiency standards of the ASHRAE 90.1- standard.

Service and caution area labels shall also be placed on the unit in their appropriate locations.

All units come standard with a 5-year compressor warranty.

## Air-to-Refrigerant Coil

Internally finned, 3/8-inch copper tubes mechanically bonded to a configured aluminum plate fin as standard. Coils are leak tested at the factory to ensure the pressure integrity. The coil shall be leak tested to 450 psig and as working pressure up to 650 psig. The tubes are to be completely evacuated of air and correctly charged with proper volume of refrigerant prior to shipment.

The refrigerant coil distributor assembly shall be of orifice style with round copper distributor tubes. The tubes are sized consistently with the capacity of the coil. Suction header is fabricated from rounded copper pipe.

A thermostatic expansion valve is factory selected and installed for a wide range of control.

## DDC Controller (Option)

The UC400(B) and ZN524 controller shall utilize factory furnished and mounted DDC controls. The DDC control package shall include a 75 VA transformer, high and low pressure switches, condensate overflow and freeze protection. The controller shall provide random start delay, heating/cooling status, occupied/unoccupied mode, fan status and filter maintenance options.

On the EXHV/DXHV product line, the discharge air sensor and leaving water sensor are standard for the ZN524 and UC400(B) controls.

The controller shall be capable of a standalone application, or as applied to a full building automation installation.

With this controller, the unit shall be capable of a hot gas reheat (for dehumidification), boilerless control for electric heat, waterside economizing, and support of variable speed pump control applications.

## Deluxe Controls

The deluxe control package has a 50 VA transformer (fused) or 75 VA transformer with circuit breaker, low and high pressure switches, condensate overflow and freeze protection. The controller shall include a lockout function, anti-short cycle compressor protection, random start delay, brown-out protection, low pressure time delay, compressor delay on start and an open relay. Hot gas reheat (option for EX models only) or electric heat shall also be provided (option). Three LEDs (light emitting diodes) are included for diagnostics of the equipment.

## Cabinet

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel.

Service to the refrigerant and controls shall be provided through a single access panel at the front of the equipment. Access to the refrigerant and controls for the larger units shall be provided through the front and side access panels.

Panels shall be insulated with either 1/2-inch thick dual density bonded glass fiber or 1/2-inch thick foil-faced glass fiber. Foil faced insulation edges are encapsulated to prevent glass fibers from entering the airstream. The glass fiber insulations have a flame spread of 25 or less and a smoke developed

classification of 50 or less per ASTM E-84 and UL 723. The dual density insulation has a minimum rated service air velocity of 3600 feet per minute (FPM) and meets the erosion requirements of UL 181.

Access for inspection and cleaning of the unit drain pan, coils and fan section shall be provided. The unit shall be installed for proper access.

Four rubber grommets are enclosed with every horizontal unit. These grommets are to be used in conjunction with unit hanging rods to isolate vibration.

Procedures for proper access inspection and cleaning of the unit shall be included in the maintenance manual.

## **Compressor**

The unit will contain a high efficiency rotary (EX models only) or scroll compressor. External vibration isolation shall be provided by rubber mounting devices located underneath the mounting base of the compressor. A second isolation of the refrigeration assembly shall be supported under the compressor mounting base.

Internal thermal overload protection shall be provided. Protection against excessive discharge pressure is provided by means of a high pressure switch. Protection against a loss of charge is provided by a low pressure safety.

## **Unit Drain Pan**

### **Polymer Drain Pan**

The condensate pan shall be constructed of corrosion resistant material and insulated to prevent sweating. The bottom of the drain pan shall be sloped on two planes which pitches the condensate to the drain connection. The drain pan shall be flame rated per UL94-5V-B. A UL508 float switch shall be installed on all units to protect against the overflow of condensate from the drain pan.

### **Stainless Steel Drain Pan**

The stainless steel drain pan and the drain stubout shall be constructed of heavy gauge type 304 stainless steel. The bottom of the drain pan shall be sloped on two planes which pitches the condensate to the drain connection. The stainless steel material shall meet the requirements of ASTM A480/A480M and comply with the chemical composition requirements of ASTM A240. The drain pan shall be insulated to prevent moisture accumulation on the drain pan material. The drain pan insulation material shall be suitable to be used in the airflow and consists of closed cell elastomeric insulation, complying with flammability requirements of UL94-5V.

## **Economizing Coil**

The waterside economizing package shall be an external unit accessory pre-piped and pre-wired ready for turn-key installation to the unit. The economizing coil shall be designed to perform with the WSHP at unit measured flow rate of 80°F DB/67°F WB with 45°F EWT. The working water pressure of the waterside economizer coil is 400 psi.

All hydronic coils are of 3/8 in. copper and aluminum plate fin combination. All coils shall be proof and leak tested. The proof test shall be performed at 1.5 times the maximum operating pressure and the leak test at the maximum operating pressure.

A dual sloped noncorrosive drain pan is easily accessible and cleanable for the hydronic economizing coil.

An electronic two-position, 3-way valve shall provide water flow to the economizing coil during the economizing mode. It is factory set to energize the economizing mode at 55°F, while simultaneously halting mechanical operation of the compressor.

Hanging brackets with rubber isolation shall be provided for the horizontal version of the economizing coil option. The bracket design shall be the same throughout the equipment.



### Electrical

The unit control box shall contain all necessary devices to allow heating and cooling operation to occur from a remote wall thermostat. These devices are as follows:

- 24 Vac energy limiting class II [50 VA (minimum) transformer.
- 24 Vac compressor contactor for compressor control
- Field thermostat connections shall be provided for ease of hook-up to terminal locations located in the unit's control box.
- Lockout function controls excessive cycling of the compressor shall be provided to protect the compressor during adverse operating conditions. The device may be reset by interrupting power to the 24 Vac control circuit. Reset may be done either at a remote thermostat or through a momentary main power interruption for units with thermostat controls. For units with DDC controls, the reset can be reset at the zone sensor (with an off switch) or a service tool.
- A high pressure switch shall protect the compressor against operation at refrigerant system pressures exceeding 650 psig.
- Factory installed wire harness shall be available for the Deluxe, ZN524 and UC400(B) control packages.

Nameplate information shall provide MOP ratings for branch circuit protection from the primary source of power.

### Electric Heat (Option)

For horizontal units, internal boilerless control electric heat shall be factory wired and tested. It shall be composed of a nichrome open wire coil designed for 2-kW per unit ton. The design consists of a single stage of electric heat used as a primary heating source when compressor lockout has occurred due to the entering water temperature falling below 55°F with an adjustable range between 25°F to 60°F. The electric heat option is not intended for secondary heat. All power connections to the electric heat shall be made in the equipment's control box.

### Filters

One-inch or two-inch, throwaway filters are standard and factory installed. Two-inch MERV 8 or 13 filters are also available as an option. The filters have an average arrestance of 75% and dust holding capacity of 26-grams per square foot.

### Hot Gas Reheat (Option for EX Units Only)

Dehumidification is provided through a hot gas reheat option. Hot gas reheat is enabled when the space humidity level is above a user-selectable setpoint. When hot gas reheat is enabled, the fan speed is reduced to enhance the dehumidification effect. The coil consists of 3/8" copper tubes mechanically expanded into evenly spaced aluminum fins. All coils are leak tested to 450 PSIG and pressure tested to 650 PSIG at the factory..

### Motorized Water Valve (Accessory)

A two-position motorized water valve may be applied to each water source heat pump as part of the hose kit accessory. The motorized valve shall stop flow to the unit, causing pressures to rise. This rise in pressure can be utilized to reduce pump usage and provide greater energy savings of the entire system.

### Indoor Fan

#### 0.5 to 6 Tons

The blower is a forward-curved style wheel with multiple speed combinations available. All direct drive motors have sealed bearings that do not require field lubrication. An internally protected electronically commutated motor is provided. The motor contains a quick disconnect plug. They are constructed of corrosion resistant galvanized material. Removal of the motor and fan wheel can be made with the assistance of a factory provided orifice ring device. This device attaches the wheel and motor to the fan

housing in a single assembly eliminating the need for access to the set screw on the backside of the fan hub.

## Single Point Power Connection

Single point power connection allows a convenient location to bring in the power supply to the unit. The one single power source powers the entire unit including the controls, compressor, blower motor, and all installed options.

## Dual Point Power Connection

Dual point power is required to power the medium and large electric heater options while the heat pump has its own separate power connection. It can also be used for the low electric heat option.

Dual point power is not to be confused with the fan motor having its own power supply from the compressor circuit.

## ON/OFF Switch (Option)

The switch is mounted on the left hand front corner of the unit and shall be sized per requirements of UL1995 to handle the unit load. The field power connections shall be made at the ON/OFF switch when this option is ordered. The switch shall be mounted on a NEMA compliant junction box. The junction box shall be UL 514 compliant. The junction box shall have knock outs on all four sides to provide access for field wiring to the switch. The switch shall be UL508 compliant and the body shall be constructed of glass reinforced thermoplastic.

## Unit Mounted Disconnect (0.5 to 6T Vertical Option)

Disconnect Switch is unit-mounted and easily accessed from the front of the unit. The disconnect switch can be locked in the off position with one padlock. The disconnect switch is UL508 listed.

## Orifice Ring

Removal of the motor and fan wheel shall be made with the assistance of a factory provided orifice ring device. This device shall attach the wheel and motor to the fan housing in one assembly providing single side service access.

## Pump Module (Field Installed Accessory)

The pump module shall consist of either a single or dual 1/6 HP cast iron pump and a brass 3-way shut-off valve. The pump module kits shall contain the necessary components for the installation, operation and maintenance of the water circuit of a closed-loop distributed pumping application.

## Refrigerant Circuits

The refrigerant circuit shall contain a thermal expansion device. Service pressure ports shall be factory supplied on the high and low pressure sides for easy refrigerant pressure or temperature testing. Filter driers are standard.

## Refrigerant Tubing

The refrigerant tubing shall be of 99% pure copper. This system shall be free from contaminants and conditions such as drilling fragments, dirt and oil. All water lines that are located in the indoor air stream shall be insulated with 3/8 inch thick elastomeric insulation. The refrigerant lines that are located in the indoor air stream that are not directly over the drain pan area shall be insulated with 3/8 inch thick elastomeric insulation.



## Mechanical Specifications

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### Reversing Valve

The reversing valve is a pilot operating sliding piston type with replaceable encapsulated magnetic coil. This valve is energized in cooling.

### Sound Attenuation

Sound attenuation shall be applied as a standard feature in the product design. For 0.5 to 6 ton units, the sound reduction package shall include vibration isolation to the compressor and water-to-refrigerant coil, unit base stiffeners, insulated metal compressor enclosure, and a second stage of vibration isolation to the compressor and water-to-refrigerant base pan. The unit is tested and rated in accordance with AHRI 260.

### Water-to-Refrigerant Heat Exchanger

The water-to-refrigerant heat exchanger shall be of a high quality co-axial coil for maximum heat transfer. The copper or optional cupro-nickel coil shall be deeply fluted to enhance heat transfer and minimize fouling and scaling. The coil has a working pressure of 400 psig on the water side and 650 psig on the refrigerant side. The factory shall provide rubber isolation to the heat exchanging device to enhance sound attenuation.

### Water-to-Refrigerant Heat Exchanger and Suction Lines - Insulated Option

The water-to-refrigerant heat exchanger(s), water lines, and refrigerant suction lines shall be insulated to prevent condensation at low temperatures below 60° F. This can be added to the existing water-to-refrigerant heat exchanger spec when the insulated option is selected. This would be both for the copper or optional cupro-nickel coil.

### Factory Mounted Isolation Valve (Option)

The two-position valve is factory installed and wired and will open on a call for heating or cooling and close when there is no call for heating or cooling. The isolation valve has a working pressure of 360 PSIG for the 1/2" and 3/4" valves. The 1" valve has a working pressure of 600 PSIG.

### Supply and Return Hoses

One-half inch to 1 1/4 inch hose assemblies are fire retardant coated stainless steel outer braid and a thermoplastic rubber tube with a UL94-VO rating. 1 1/2 inch - 2 1/2 inch hose assemblies are a thermoplastic rubber tube. Each assembly has a rigid outside-thread NPT on one end and a JIC swivel coupling with a JIC to outside-thread NPT adapter on the other end. Working pressure is 300 PSI for 1/2 inch - 1 1/4 inch, 200 PSI for 1 1/2 inch, and 150 PSI for 2 inch" - 2 1/2 inch with a minimum burst pressure four times the working pressure. Temperature range for the hose is -40° F[C] to +190° F. All outside-thread pipe threads are shipped with thread sealant already applied, capped, and ready for installation.

### Ball Valves

Each ball valve kit consists of two equally sized ball valves. During system balancing, ball valves may be opened or closed to allow more or less water to enter the heat pump. Valves can be used as shut-off for servicing.

### Return Air Duct Panel (Accessory)

Return Air Duct Panel is a top and bottom flange to allow connection of return air duct and is field installed. The return air flange does not allow for a fully sealed application. It is adjustable for one-inch or two-inch filters.



## **Two-inch or Four-inch Ducted Filter Rack (Accessory)**

The ducted filter rack is field mounted for the use of 2- or 4-inch filters and provides easy access to the filters from the side of the filter rack through a door that does not require a tool. Duct collars are built into the filter rack to provide an easy means to connect the duct work to the unit.



## Notes

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