

Bell & Gossett™

Shell & Tube Heat Exchanger Specification Sheet

175 Standard Parkway
Cheektowaga, New York 14227
1-800-447-7700
www.xylem.com/bellgossett

Customer
Inquiry Number 690541

Date Wednesday, February 10, 2021
Item Number NA

Performance of One Unit: SU-65-2

Units Connected in Parallel: 1

	Shell Side	Tube Side
Fluid Name	Steam	Water
Total Flow	996.62 lb/hr	85.5 GPM
Inlet Temperature	226.4 °F	147.0 °F
Outlet Temperature	226.4 °F	170.0 °F
Operating Pressure	5 PSIG	0 PSIG
Pressure Drop, Allow./Calc	3.94 / 0.24 PSIG	6.5 / 1.76 PSIG
Velocity	36.72 ft/s	6.29 ft/s
Density	0.05 lb/ft3	61.03 lb/ft3
Viscosity, Mean	0.01 cp	0.42 cp
Viscosity, Wall	0.01 cp	0.41 cp
Specific Heat	0.49 Btu/lbm, °F	1.0 Btu/lbm, °F
Thermal Conductivity	0.01 Btu/ft, h, °F	0.38 Btu/ft, h, °F
Specified Fouling Factor	0.000000 hr, ft2, °F/Btu	0.000500 hr, ft2, °F/Btu
Total Heat Exchanged	963,554.66 Btu/h	
LMTD	67.29 °F	
Overall Heat Transfer Coefficient, Clean/Dirty	990.9/640.76 Btu/hr, ft2, °F	
Overall Heat Transfer Coefficient, Service	634.06 Btu/hr, ft2, °F	
Surface Area	22.6 ft2	
Excess Surface Area	1.06 %	

Construction

	Shell Side	Tube Side
Number of Passes	1	2
Design Pressure	150PSI	150PSIG
Design Temperature	375(°F)	375(°F)
Inlet Connection (Location) Type	2.5 in NPT	2.0 in NPT
Outlet Connection (Location) Type	1.0 in NPT	2.0 in NPT
Tube Material / Diameter	COPPER / 3/4 in	
No. Tubes / Gauge / Length / Pitch	24 / 20 BWG / 60 / 15/16 TRI	
Shell Material	STEEL	
Head Type/Material	CAST IRON	
Tubesheet Material	STEEL	
Baffle Material	STEEL	
Gasket Material	COMP.FIBER	
Tube to Tubesheet Joint	Roller Expanded	
Approvals	ASME Sect VIII Div 1 w/U stamp.	

- Customer to verify fluid/material compatibility.

Performance evaluation is dependent on customers' ability to provide sufficiently accurate measurements.

NOTES:

David Sellers

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