$$Q_{\text{Btu per hour}} = 4.5 \times Flow_{\text{Cubic Feet per Minute}} \times \left(Enthalpy_{\text{In, Btu per pound}} - Enthalpy_{\text{Out, Btu per pound}} \right)$$

Where:

$Q_{\text{Btu per hour}}$ = Total energy change in the air stream

4.5 = Unit conversion constant for dry air at 70°F

$Flow_{\text{Cubic Feet per Minute}}$ = The flow rate for the current operating mode based on TAB data

$\left(Enthalpy_{\text{In, Btu per pound}} - Enthalpy_{\text{Out, Btu per pound}} \right)$ = Heat exchanger enthalpy difference