

IBT Modular Indirect Fired Bent Tube Heater Formulas

Heating Requirements

$$\text{Input BTU/Hr} = \frac{\text{Blower SCFM} * \text{Temp Rise} * \text{Density Factor}}{.80}$$

$$\text{Temp Rise} = \frac{\text{Input BTU/Hr} * .80}{\text{CFM} * \text{Density Factor}}$$

$$\text{Density Factor} = \frac{1.08 + (70 - \text{Blower Temp}) * .024}{10}$$

Output BTU/Hr

$$\text{Output BTU/Hr} = \text{Input BTU/Hr} * .80$$