

## Heater Systems

### ASME & Custom Engineering Specifications

*Customer Specifications*  
*ASME Heater*

Date \_\_\_\_\_ Prepared By \_\_\_\_\_

Customer Name \_\_\_\_\_ Sales Engineer \_\_\_\_\_

Location \_\_\_\_\_ Order/Inquiry No. \_\_\_\_\_

**1. Medium Being Heated** \_\_\_\_\_

Temperature: From (*specify units*) \_\_\_\_\_ To (*specify units*) \_\_\_\_\_

Sp. Ht. \_\_\_\_\_ Viscosity \_\_\_\_\_ @ \_\_\_\_\_ (*specify units*)

Lethal Substance<sup>1</sup>    Yes     No

Minimum Flow Rate \_\_\_\_\_ (*specify units*)

Maximum Flow Rate \_\_\_\_\_ (*specify units*)

Max. Pressure: Operating (*specify units*) \_\_\_\_\_

Design Pressure (*specify units*) \_\_\_\_\_

Max. Temperature: Operating (*specify units*) \_\_\_\_\_

Design Temp. Max. (*specify units*) \_\_\_\_\_ Min. \_\_\_\_\_

Corrosion Allowance (Standard is .005" inches) \_\_\_\_\_

**2. Heater Construction - Model No.** \_\_\_\_\_

Nominal Vessel Size (NPS) 3"  5"  8"  10"  12"  14"  16"  18"  Other \_\_\_\_\_

Pressure Rating \_\_\_\_\_ Lb. Construction (150, 300, 400, etc.)<sup>2</sup>

Vessel Materials \_\_\_\_\_ (Carbon Steel, Stainless, etc.)<sup>2</sup>

Element Materials \_\_\_\_\_ (Copper, Steel, Stainless, INCOLOY®)<sup>2</sup>

Inlet & Outlet Size (NPS) \_\_\_\_\_ NPT or Flanged \_\_\_\_\_

Terminal Enclosure \_\_\_\_\_ E1, E2, E3, E4, E6

Mounting Position \_\_\_\_\_ (Vertical or Horizontal)

Insulation Jacket \_\_\_\_\_ (Standard, Weather Resistant, None)

ASME Code Section \_\_\_\_\_ (I, IV, VIII)<sup>2</sup>

Circulation Type \_\_\_\_\_ (Baffled or Non-Baffled)

**3. Electrical Data:**    kW \_\_\_\_\_    Voltage \_\_\_\_\_    Phase \_\_\_\_\_    No. of Circuits \_\_\_\_\_

Watt Density<sup>2</sup> \_\_\_\_\_    Overheat Protection \_\_\_\_\_

**4. Temperature Control Requirements**

**5. Remarks** (Other Requirements)

**Note —**

1. By "lethal substances" are meant poisonous gases or liquids of such a nature that a very small amount of the gas or of the vapor of the liquid mixed or unmixed with air is dangerous to life when inhaled. For purposes of this design, this class includes substances of this nature which are stored under pressure or may generate a pressure if stored in a closed vessel.
2. Design parameters may be specified but factory engineers will advise if design calculations or code requirements suggest a better choice.

Form PE306-5