

Circulation Heater Systems

ASME & Custom Engineering Specifications

*Customer Specifications
ASME Circulation Heater*

Date _____ Prepared By _____

Representative Co. _____ Customer Name _____

Sales Engineer _____ Location _____

Qty. of Heaters: Per Order _____ Per Year _____ Order/Inquiry No. _____

1. Medium Being Heated _____ From _____ °F To _____ °F

Sp. Ht. _____ Viscosity _____ @ _____ °F Minimum Flow Rate _____

Lethal Substance¹ Yes No Maximum Flow Rate _____

Operating Pressure: _____ psig Design Pressure Max _____ psig (MAWP)

Operating Temperature: _____ °F Design Temp Max _____ °F Min. Temp (MDMT) _____ °F

2. Heater Construction - Model No. _____

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

Flange Class _____ Lb. Construction (150, 300, 400, etc.)²

Vessel Materials _____ (Carbon Steel, Stainless, etc.)²

Element Materials _____ (Copper, Steel, Stainless, INCOLOY®)²

Inlet & Outlet Size (NPS) _____ NPT or Flanged _____

Terminal Enclosure _____ E1, E2, E3, E4

Mounting Position _____ (Vertical or Horizontal)

Insulation Jacket _____ (Standard, Weather Resistant, None)

ASME Code Section _____ (I, IV, VIII)²

Circulation Type _____ (Baffled or Non-Baffled)

3. Electrical Data: kW _____ Voltage _____ Phase _____ No. of Circuits _____

Watt Density² _____ Overheat Protection _____

4. Temperature Control Requirements

Chromalox Controller Model No. _____

Range _____ °F _____ °C _____ Housing Type _____ (ER, LT, STD)

5. Power Control Requirements

A. SCR Solid State Control Panel Model No. _____

B. Step Controller Power Panel: ISSC _____ ISSU _____

C. Contactor Power Panel: _____

6. Other Regulatory or Local Code Requirements _____

7. 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 PE 306-2