

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.

STEAM, AIR
AND GAS