



ASME & Custom Engineering Specifications

Customer Specifications ASME Heater

Date June 13, 2016 Prepared By Wade Bozak
Customer Name AGES thermal processing corporation Sales Engineer Allan Bartolcic / D.Eric DeBarr
Location Alberta, CA Order/Inquiry No. EQ 272232 / SO # 2275981

1. Medium Being Heated Thermal Transfer Oil (Dimethyl Polysiloxane)

Temperature: From (specify units) -32 deg. Celsius To (specify units) 400 deg. Celsius
Sp. Ht. 2.26 kJ/kg Viscosity 0.25 mPa.S @ 400 deg. Celsius (specify units)
Lethal Substance¹ Yes No
Minimum Flow Rate 200 USGPM (specify units)
Maximum Flow Rate 300 USGPM (specify units)
Max. Pressure: Operating (specify units) 1724 kPag
Design Pressure (specify units) 1373 kPag
Max. Temperature: Operating (specify units) 380 C
Design Temp. Max. (specify units) 400 C Min. _____
Corrosion Allowance (Standard is .0005" inches) _____

2. Heater Construction - Model No. NWHO-72-750P-E2XX

Nominal Vessel Size (NPS) 3" 5" 8" 10" 12" 14" 16" 18" Other _____
Pressure Rating 300 # Lb. Construction (150, 300, 400, etc.)²
Vessel Materials Carbon Steel (Carbon Steel, Stainless, etc.)²
Element Materials Carbon Steel (Copper, Steel, Stainless, INCOLOY®)²
Inlet & Outlet Size (NPS) 6" NPT or Flanged 300# RF Flange
Terminal Enclosure E2 E1, E2, E3, E4, E6
Mounting Position Horizontal (Vertical or Horizontal)
Insulation Jacket High Temp Insulation Jacket (Standard, Weather Resistant, None)
ASME Code Section VIII (I, IV, VIII)²
Circulation Type Non-Baffled (Baffled or Non-Baffled)

3. Electrical Data: kW 750 Voltage 480 Phase 3 No. of Circuits 12
Watt Density^{2,32} _____ Overheat Protection RTD

4. Temperature Control Requirements Customer Controls - Process RTD provided

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.