



Date \_\_\_\_\_ Job Reference \_\_\_\_\_  
 Company Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Customer Contact \_\_\_\_\_  
 Phone No. \_\_\_\_\_  
 E-Mail Address \_\_\_\_\_  
 Date Quote Required \_\_\_\_\_

# CIRCULATION HEATER

Download the form and fill out all known information.  
 Once complete, email to [sales@heatrex.com](mailto:sales@heatrex.com)

APPLICATION

Material to be heated: \_\_\_\_\_ Flow rate: \_\_\_\_\_ lb/hr Heat Sensitive: YES / NO  
 Inlet Temp. \_\_\_\_\_ °F Outlet Temp. \_\_\_\_\_ °F Indoor Outdoor Min./Max. Ambient Temps \_\_\_\_\_ / \_\_\_\_\_ °F  
 Operating/ Design Pressure \_\_\_\_\_ / \_\_\_\_\_ PSIG; Design Temperature \_\_\_\_\_ °F; ASME Code Stamp: YES / NO  
 PED Compliance Required: YES / NO Corrosion Allowance: \_\_\_\_\_ in  
 Specified Inlet/Outlet Size: \_\_\_\_\_ Dia., Sch \_\_\_\_\_, Type: Flanged Flange Rating \_\_\_\_\_ lb.  
 Fluid Properties: Density or Specific Gravity \_\_\_\_\_ at \_\_\_\_\_ °F Specific Heat \_\_\_\_\_ at \_\_\_\_\_ °F  
 Thermal Conductivity \_\_\_\_\_ at \_\_\_\_\_ °F Viscosity \_\_\_\_\_ at \_\_\_\_\_ °F  
 Maximum Fluid Film Temperature \_\_\_\_\_ °F  
 Describe how the heater is to be used: \_\_\_\_\_  
 Describe the process loop: \_\_\_\_\_

HEATER DESIGN

Required KW rating or heat duty (if known): \_\_\_\_\_  
 Available power: \_\_\_\_\_ volts: \_\_\_\_\_ phase: \_\_\_\_\_  
 Maximum watt density on heater element: \_\_\_\_\_ W/in<sup>2</sup>  
 Circulation Heater Vessel Material: Carbon steel , 304SS , 316SS , Other: \_\_\_\_\_  
 Heating Element Material: Copper , Steel , 304SS , 316SS , Incoloy , Other: \_\_\_\_\_  
 Heater Environment (NEMA Type): 1 , 4 , 4X , 7 Non-hazardous Area or Hazardous Area  
 Heater Orientation: Vertical Horizontal  
 If Hazardous Area:  
 NEC/CEC: Class I DIV. 2 Group: A B C D  
 NEC/CEC: Class I DIV. 1 Group: B C D  
 NEC/CEC: Class II DIV. 1 Group: E F G  
 ATEX/IEC: II 2 G Ex db Zone 1 Group IIA IIB IIB+H<sub>2</sub>  
 ATEX/IEC: II 2 D Ex tb Zone 21 Group IIIA IIIB IIIC  
 Temperature Code/Class: \_\_\_\_\_ or Max surface temperature: \_\_\_\_\_

CONTROLS

Control Type: ON/OFF / Multi Stage , Solid-state SCR (modulated)  
 Control Mounting Options: On heater (prewired) Remote control panel Mounted & prewired on skid with heater  
 Control Panel Environment (NEMA Type): 4 , 4X , 7 cast aluminum With Purge? YES or NO  
 Non-hazardous Area or Hazardous Area ; If Hazardous Area: \_\_\_\_\_  
 Temperature Code/Class: \_\_\_\_\_ or Max surface temperature: \_\_\_\_\_  
 Control Input Options: Process Thermocouple Sheath Thermocouple