

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@indeeco.com

APPLICATION

Material to be heated _____ Flow rate _____ 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
 Specified Inlet/Outlet Size: _____ Dia., Sch _____, Type: Flanged , NPT If 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 _____ cycle
 Maximum watt density on heater element: _____ W/in²
 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
 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+H₂
 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:
 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+H₂
 ATEX/IEC: II 2 D Ex tb Zone 21 Group IIIA IIIB IIIC
 Temperature Code/Class: _____ or Max surface temperature: _____
 Control Input Options: Process Thermostat Process Thermocouple Sheath Thermocouple