



425 Hanley Industrial Court  
 St. Louis, MO 63144  
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Date: \_\_\_\_\_ Job Reference \_\_\_\_\_  
 Company Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Customer Contact \_\_\_\_\_  
 Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_  
 E-Mail Address \_\_\_\_\_  
 Submitted By (if different than above) \_\_\_\_\_  
 Date Quote Required \_\_\_\_\_

## STORAGE TANK HEATERS

### APPLICATION

Tank Dimensions: \_\_\_\_\_ Capacity \_\_\_\_\_ gal., Tank Material \_\_\_\_\_ Horizontal  or Vertical   
 Insulation thickness \_\_\_\_\_ in., Insulation type \_\_\_\_\_ "K" factor \_\_\_\_\_  
 Maintaining temp. \_\_\_\_\_ °F, Min./max. ambient temperatures \_\_\_\_\_ °F, Indoor  or Outdoor   
 Initial heat-up time required \_\_\_\_\_ hours Maximum temp. rise during heat up \_\_\_\_\_ °F  
 Material to be heated \_\_\_\_\_ Heat sensitive YES  / NO   
 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 \_\_\_\_\_  
 Available power \_\_\_\_\_ volts, \_\_\_\_\_ phase, \_\_\_\_\_ cycle  
 Maximum watt density on heater pipe \_\_\_\_\_ W/in<sup>2</sup>  
 Tank heater pipe material \_\_\_\_\_ (Carbon steel is standard.)  
 Heater Environment (NEMA Type): 1 , 4 , 4X , 7  Non-hazardous Area  or Hazardous Area   
 If Hazardous Area: Class \_\_\_\_\_, Division \_\_\_\_\_, Groups \_\_\_\_\_, Ignition Temperature Code \_\_\_\_\_  
 Special Items: \_\_\_\_\_

### CONTROLS

Type: ON / OFF  / Multi Stage , Number of Stages \_\_\_\_\_ / Solid-state SCR (modulated)   
 Controls mounted: On heating unit (prewired)  Remote control panel   
 NEMA Type enclosure (if remote): 12 , 4 , 4X , 7  (cast aluminum)  
 Special Control Items: \_\_\_\_\_