Tank Heating Questionaire

When heating tanks of various fluids, there are several types of heaters that can be used. Immersion heaters placed in the fluid, strip heaters attached to the outside of the tank, barrel/blanket/silicone heaters or heat trace cable wrapped around the outside of the tank. The following questionnaire can be used to gather the information needed to select the most appropriate heater:

1.) Size of Tank? (dimensions) _________________________________________________________
2.) What material is the tank made out of? ________________________________________________
3.) What “gauge” or thickness are the tank walls? __________________________________________
4.) Is the tank covered? _______________________________________________________________
5.) What type of liquid is inside the tank? _________________________________________________
   What is the level of the liquid? (gallons) ________________________________________________
   Will the level be constant? ___________________________________________________________
6.) Will any additional material be added to the tank? _______________________________________
   What type of material will be placed in the tank? _________________________________________
   How much additional material will be added? ____________________________________________
   How often is the material added to the tank? ____________________________________________
7.) What is the required operating temperature of the material? _____________________________
8.) What is the required warm-up time? _________________________________________________
9.) What is the ambient temperature? ___________________________________________________
10.) Is the tank insulated? _____________________________________________________________
   How thick is the insulation? __________________________________________________________
   What type of insulation is used? ______________________________________________________
   Is the base of the tank insulated? ____________________________________________________
11.) Is the tank located indoors or outdoors? ______________________________________________
   Is the base of the tank raised of the ground? ___________________________________________
   Is the base of the tank resting on an insulated concrete slab? ____________________________
   Is the base of the tank resting on an un-insulated concrete slab? _________________________
12.) What is the "Area Classification"? ___________________________________________________
13.) What voltage is available? _________________________________________________________
14.) Is there any electrical limitation (such as amperage) allocated for the system? _______________
15.) What is the operating temperature tolerance? (tight or loose control) ____________________
16.) Is there a particular style of heater you would like? (screw plug, flange, strip heater or over the side). ______________________________________________________________________
17.) Is there a particular heater manufacturer that you prefer? ________________________________
   Name the preferred heater manufacturer: _____________________________________________
18.) How soon do you need the quote? __________________________________________________