



TL Thermal Leverage Fulcrum Water Heaters

Sample Specifications:

When specifying TL Thermal Leverage Fulcrum Water Heaters Select Model from charts and use specification below. TL has Representation in most Major Cities, contact factory for assistance.

Semi Instantaneous water heater shall be a TL Thermal Leverage Fulcrum Series factory assembled and wired. The heat exchanger shall be designed and fabricated in accordance with ASME Code Section VIII Division 1 for 150 PSIG. The shell shall be 316 Solid Stainless-steel pipe with 3000# FNPT fittings,.500" O.D. copper tubes, solid 316 stainless steel tube sheet and carbon steel head.

Steam Units

Unit should be skid mounted on a steel mounting base. The heater shell shall be insulated with 1" fiberglass insulation with PVC Gray Jacket. Water Heater shall be factory assembled and piped with Incoming Strainer, Impingement Tee, Drip and Main Traps with Electronic Control Valve. The Tube Bundle shall be baffled with Teflon segmented Baffles and shall have an Integral bronze circulator pump to flow domestic water over the coil to preclude stacking.

Boiler Water Units

Unit should be skid mounted on a steel mounting base. Heater shell shall be insulated with 1" fiberglass insulation with PVC Gray Jacket. Water Heater shall be factory assembled and piped with Incoming Strainer and Electronic Control Valve. The Tube Bundle shall be baffled with Teflon segmented Baffles and shall have an Integral bronze circulator pump to flow domestic water over the coil to preclude stacking.



Thermal Leverage

The water heater shall be equipped with a solid-state PI control panel with LCD display, Alarm with silence button, ON/OFF switch, primary high limit and secondary high limit. The control module shall be supplied with a field programmable digital PI controller which can be adjusted to set the outlet temperature limit on the display screen. The panel screen shall indicate a red alarm display and horn with silence relay button. The panel shall be supplied with dry contact closure outputs to indicate to BAS the occurrence of power on, primary high temperature and secondary high temperature alarms. The control shall allow the BAS to turn the heater on or off through a remote relay suitable for 24 VAC, 1 amp. The control shall also allow the BAS to remotely set the temperature of the water heater using a 4-20mA input signal.

The unit shall have its own separate ON/OFF switch and shall be mounted in a NEMA 4 panel. All solenoids and limits shall be 24 VAC

The heater shall be equipped with a Steam Pressure Gauge, Vacuum Breaker and a ASME T&P relief valve suitable to relieve the BTU input of the unit.

Manufacturer assumes all responsibility for correct sizing of components to guarantee performance.

Heater shall be a Fulcrum TL Model _____ Vertical _____ or Horizontal _____

Steam to Heat _____ GPM from _____ Deg F to _____ Deg F with _____ psig Steam to Valve Inlet

Boiler Water to Heat _____ GPM from _____ Deg F to _____ Deg F with _____ GPM of _____ Deg F to Valve