

Please complete ONE (1) form for each site at which a TL PIVOT Water Heater is installed and return it to TL for Warranty validation within 30 Days of start-up. After completion, email this form to [info@thermalleverage.com](mailto:info@thermalleverage.com)

Completed By: \_\_\_\_\_ Date \_\_\_\_\_

**UNIT AND LOCATION**

Installation Name: \_\_\_\_\_ Technician: \_\_\_\_\_

Street Address: \_\_\_\_\_ Company: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_ Phone: \_\_\_\_\_

TL Sales REP: \_\_\_\_\_ Email: \_\_\_\_\_

**EQUIPMENT DESIGNATION**

Model Number of Water Heater: \_\_\_\_\_

Serial Number of Water Heater: \_\_\_\_\_

Other Please Specify: \_\_\_\_\_

**INSTALLATION DETAILS**

1. Is the relief valve and dump solenoid if present piped to a safe drain? \_\_\_\_\_
2. Is there an electrical service switch on the wall away from the unit? \_\_\_\_\_
3. Does the unit have sufficient clearance at the front and sides to operate the unit? \_\_\_\_\_
4. Is the unit properly grounded from the control Panel? \_\_\_\_\_
5. Is all communication wire properly shielded? \_\_\_\_\_
6. What is the system pressure? PSI \_\_\_\_\_
7. The system application is Potable Water, Process Water, Washdown, Other \_\_\_\_\_
8. If multiple units are installed are they piped reversed return or center feed? \_\_\_\_\_
9. If a mixing valve is installed at the outlet does it have a bypass to recirculation? \_\_\_\_\_

**WATER HEATER INSTALLED WITH STORAGE TANK**

- 1.Storage Tank is Stratified or Aqua Booster setup? \_\_\_\_\_
- 2.What is the Storage Tank Volume? USG \_\_\_\_\_
- 3.What is the heater outlet temperature set point? \_\_\_\_\_
- 4.If Aquastat is used on Tank specify its location Top Middle or Bottom? \_\_\_\_\_
- 5.What is the Aquastat set temperature. \_\_\_\_\_
- 6.Does the Aquastat control the Pump between the Tank & Heater? \_\_\_\_\_
- 7.Is there a throttling valve installed between the pump & heater? \_\_\_\_\_
- 8.Is there a bypass loop around the pump? \_\_\_\_\_
- 9.What is the capacity of the pump? GPM \_\_\_\_\_

**WATER HEATER INSTALLATION**

- 1.Are check valves installed on the domestic water inlet and recirculation lines? \_\_\_\_\_
- 2.Is the Building recirculation line connected to the cold water inlet? \_\_\_\_\_
- 3.What is the design system flowrate? GPM \_\_\_\_\_
- 4.What is the Boiler Water inlet temperature? \_\_\_\_\_
- 5.What is the Boiler Water Pressure? \_\_\_\_\_
- 6.What is the design boiler plant delta T? \_\_\_\_\_
- 7.Is there a dedicated pump to supply the Boiler Water to the Unit? \_\_\_\_\_
- 8.What is the flow rating of the pump? GPM \_\_\_\_\_
- 9.Is there a Buffer Tank used with the TL heater? \_\_\_\_\_

**WATER QUALITY**

TL recommends that a sample of the units input water supply be tested to ascertain if it will have an adverse effect on the materials of construction of the water heater.

- 1.What is the pH of the water? \_\_\_\_\_ pH Between 6.3to 9.8 is acceptable
- 2.What is the hardness of the water \_\_\_\_\_ Grains per gallon 2-11 is acceptable
- 3.Is there any water softening or chemical treatment of any kind \_\_\_\_\_  
 If yes what kind Salt, Chlorine Dioxide, Other \_\_\_\_\_

**CONTROL PANEL SETTINGS**

Please indicate if any changes have been made to the factory settings

Factory Setting	Value	Field Value		Factory Setting	Value	Field Value	
Primary Alarm	150F			Derivative	0		
Primary Alarm off	150F			Dead Band	0		
Secondary Alarm	160F			Valve Open %	60		
Secondary Alarm off	160F			Pump	On		
Set Point	120F			Aquastat	180F		
Proportional Gain	120						
Integral	40						

The Autotune function should be used once the unit has been operating normally for at least 5-10 minutes and the unit is experiencing several cycles where it passes below and above the set point.