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Job or Customer :	
Location :	
Engineer :	
<input type="checkbox"/> Complies with Spec <input type="checkbox"/> Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

The TWH Tankless Water Heater Mixing Panel's primary application is as a single zone mixing device for tankless DHW heaters. Both the primary and secondary pumps are activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant.

When the panel receives a call for heat, both pumps are activated, and the thermostatic control head in the 3-way mixing valve will automatically regulate the water temperature in the secondary circuit. The TWH070XP is designed for applications where there is an extremely high flow resistance in the heat source.

The panel is pre-wired to work with the FLWSWTCH DHW priority switch (mounted externally). When using the FLWSWTCH priority switch, a flow sensor is installed in the DHW supply to the house downstream from the branch to the TWH panel. When the FLWSWTCH detects water flow, it will turn off the primary pump in the TWH panel, until such time that the DHW flow to the house falls below ~0.5 US gpm.

Technical Data

Max Ambient Temperature:..... 120°F (49°C)
 Max Water Temperature: 200°F (93°C)
 Temperature Control Method:..... 3-way Thermostatic
 Mixing Valve Size: 1"
 Mixing Valve Cv: 3.0
 Temperature Control Range: 110-140 °F (43-60°C)
 Min Required Flow for Correct Temp Control: ... 1.3 US gpm (5 L/min)
 Power Supply: 120 V(ac)
 Auxiliary Terminal: Yes
 DHW Priority:..... Optional @ ~0.5 US gpm DHW flow
 Material - Piping:..... ¾" 304SS Tubing
 Piping Connections:..... 1" FNPT
 Material - Backplate:..... Galvanized Steel
 Material - Enclosure:..... Powder Coated Steel

Standards / Listings

CAN/CSA-C22 No.14, UL508
 cETLus

Qty	Stk. #	Nominal Panel Output	Nominal Flow		Nominal Pressure Drop Outside of Panel		Pump		Weight
			Primary	Secondary	Primary	Secondary	Primary	Secondary	
	TWH070P	70,000 Btu/hr	4.0 US gpm @ 35°F ΔT	7 US gpm @ 20 °F ΔT	14 ft	4 ft	UPS 15-58CIL2	UPS 15-58CIL2	28.5 lb (12.9 kg)
	TWH070XP	70,000 Btu/hr	4.0 US gpm @ 35°F ΔT	7 US gpm @ 20 °F ΔT	24 ft	4 ft	UPS 26-98BFC	UPS 15-58CIL2	35 lb (17.7 kg)

Panel Components

- ① Primary Pump with Check Valve
- ② Secondary Pump
- ③ Programmable Logic Control
 - 24hr Timer for Potable Applications
- ④ 24V(ac) 20VA Plug-in Transformer
- ⑤ 3-Way Thermostatic Mixing Valve
- ⑥ Thermometer

Installation

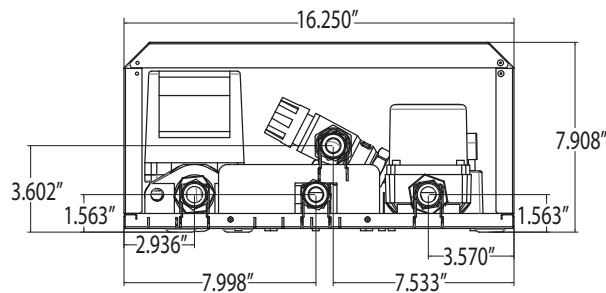
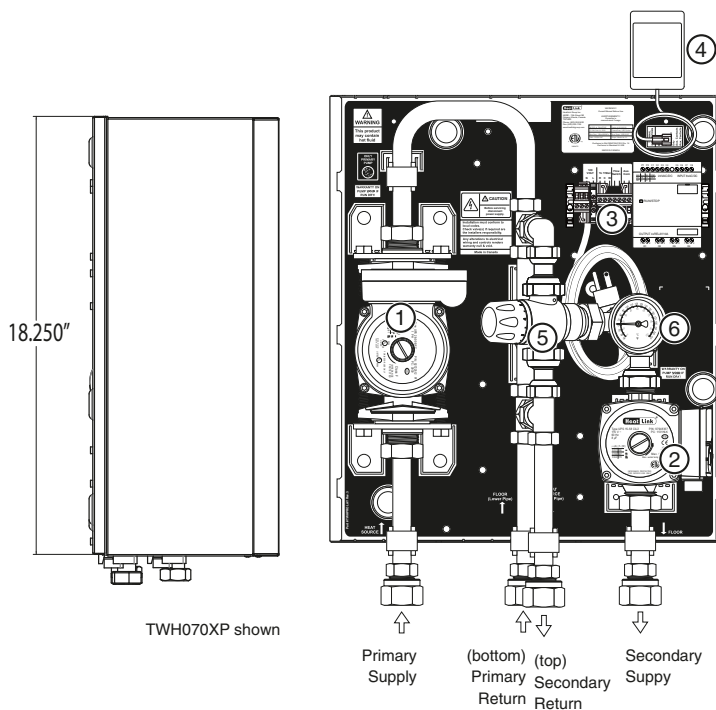
Installation must follow all of HeatLink's instructions and guidelines.

Maintenance

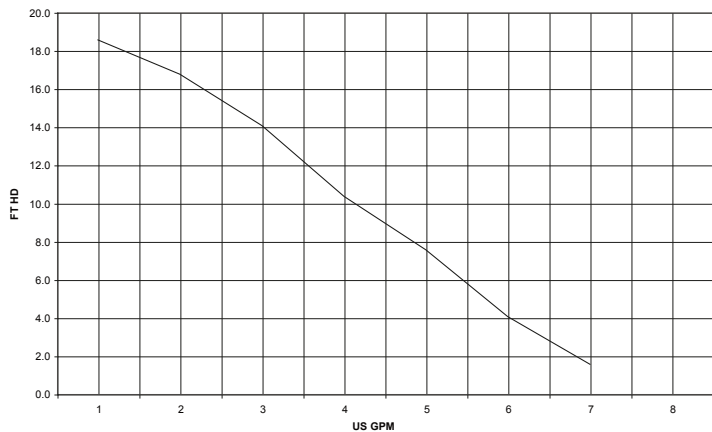
Maintenance must follow all of HeatLink's instructions and guidelines.

Related Documents

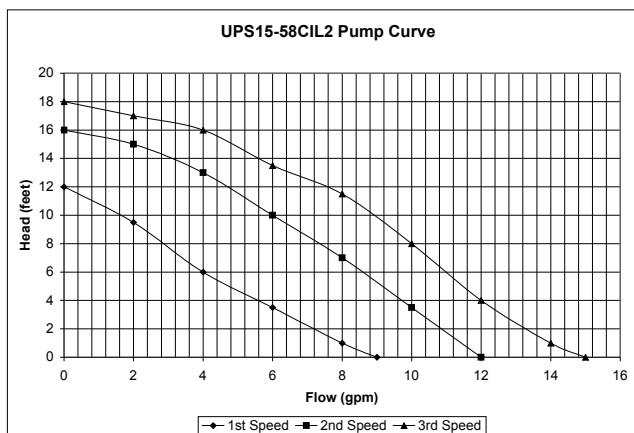
- TWH000P Installation, Operation, and Maintenance Manual Instructions (L6TWH000P)
- FLWSWTCH Flow Switch for DHW Priority Submittal (SUBFLWSWTCH)
- HeatLink Limited Heating Warranty



TWH Series FT HD Outside of Panel



UPS15-58CIL2 Pump Curve



UPS26-99BFC Pump Curve

