

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 *multizone* mixing device for tankless DHW heaters. Both the primary and secondary pumps are activated, and actuators (sold separately) are opened once every 24 hours, for 15 minutes, to ensure that potable water in the piping is not stagnant. At this time, a DHW priority option for these panels is not available.

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. When used with a tankless DHW heater as a heat source, secondary zoning downstream of the panel is possible (subject to local codes). The TWH070XPZ is designed for applications where there is an extremely high flow resistance in the heat source.

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:..... 3.9
 Temperature Control Range:..... 110-140 °F (43-60°C)
 Min Required Flow for Correct Temp Control:..... 1 US gpm
 Power Supply:..... 110 V(ac)
 Auxiliary Terminal:..... Yes
 Piping:..... 3/4" 304SS Tubing
 Piping Connections:..... 1" FIP
 Material - Backplate:..... Galvanized Steel
 Material - Enclosure:..... Powder Coated Steel

Standards / Listings

CAN/CSA-C22 No.14, UL508
 cETLus

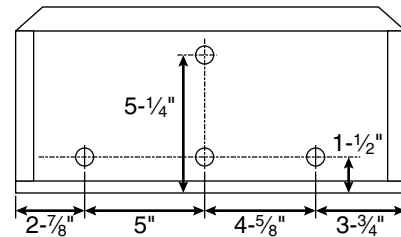
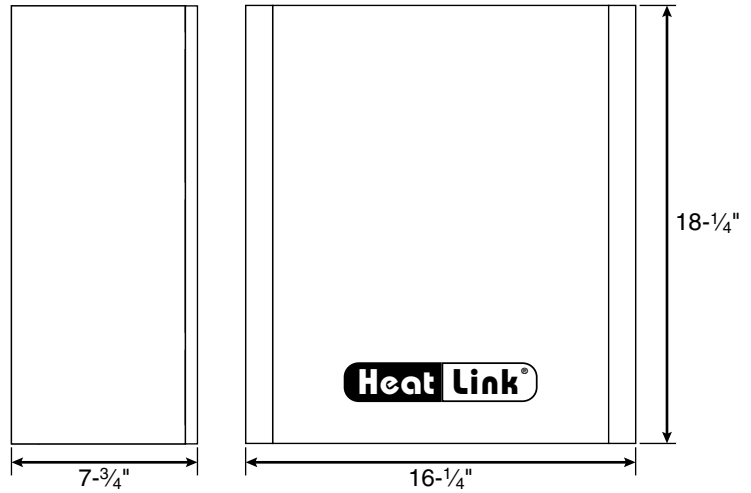
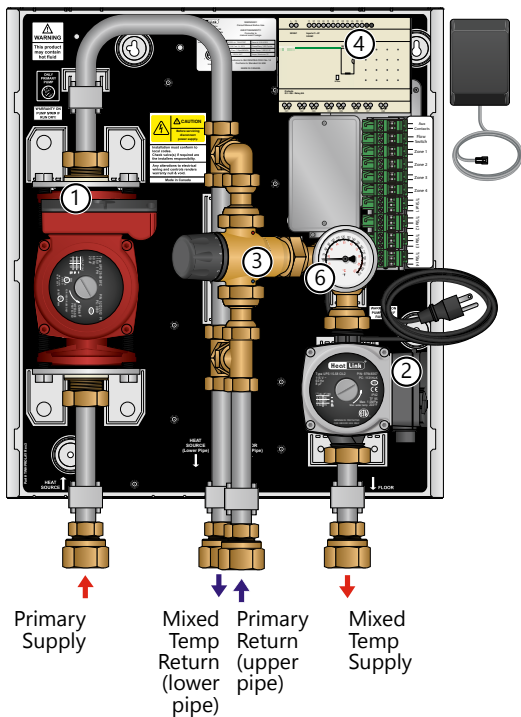
Qty	Stk. #	Nominal Panel Output	Nominal Flow		Nominal Pressure Drop Outside of Panel		Primary Pump	Mixed Temp Pump	Weight
			Primary	Secondary	Primary	Secondary			
	TWH070Z	70,000 Btu/hr	4.0 US gpm @ 35°F ΔT	7 US gpm @ 20 °F ΔT	14 ft	4 ft	UPS 15-58RU	UPS 15-58RU	28.5 lb (12.9 kg)
	TWH070XPZ	70,000 Btu/hr	4.0 US gpm @ 35°F ΔT	7 US gpm @ 20 °F ΔT	24 ft	4 ft	UPS 26-98BFC	UPS 15-58RU	39 lb (17.7 kg)

Panel Components

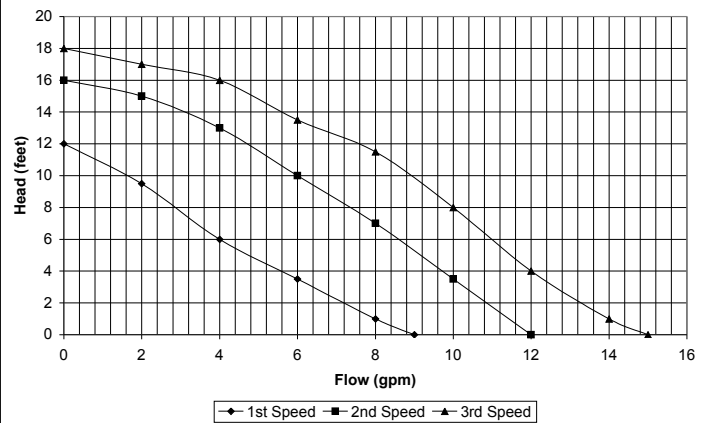
- ① Primary Pump with Check Valve
- ② Mixed Temp Pump
- ③ 3-Way Thermostatic Mixing Valve
- ④ Programmable Logic Control
 - 24hr Timer for Potable Applications
 - Auxiliary Dry Contacts for Heat Source
 - Thermostat Inputs and Actuator Outputs for 4 zones.
- ⑤ 24Vac 40VA Plug-in Transformer
- ⑥ Thermometer

⑤

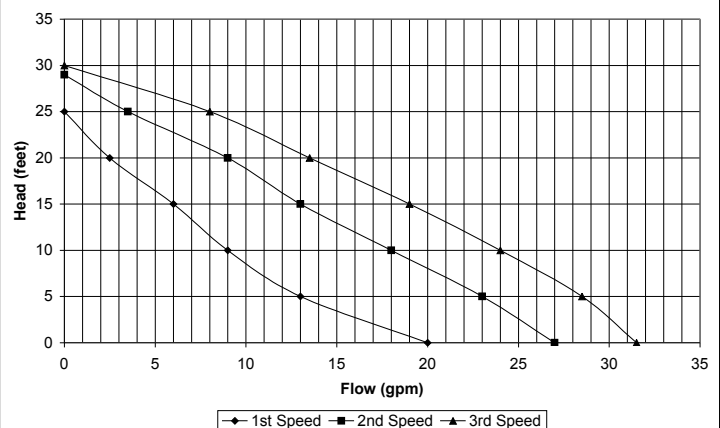
TWH070XPZ shown



UPS15-58CIL2 Pump Curve



UPS26-99BFC Pump Curve



Installation

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

Maintenance

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

Related Documents

- TWH000Z Installation, Operation, and Maintenance Manual Instructions (L6TWH000Z)
- HeatLink Limited Heating Warranty