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TMP070RS - 3-way Mixing Panel w/Mixing Reset Control

Submittal - Page 1 of 3

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 TMP three way mixing panel's primary application is as a single zone mixing device where there are no flow requirements in the primary loop.

On a call for heat, the pump is activated and the Mixing Reset Control will regulate the water temperature in the secondary circuit via the actuator on the 3-way mixing valve.

Technical Data

Max Ambient Temperature:..... 120°F (49°C)
 Max Water Temperature: 200°F (93°C)
 Temperature Control Method:..... Outdoor Reset
 Temperature Control Range: 70-180 °F (43-60°C)
 Mixing Control:..... #31355 Compact Mixing Reset Control
 (see also SUB31355)

Power Supply:
 Circulator 110Vac
 Reset Control..... 24Vac

Circulator: Non-ferrous, Grundfos UPS15-58
 Auxiliary Terminal: Yes
 Piping:..... 3/4" 304SS Tubing
 Piping Connection: 1" FNPT Brass
 Material - Backplate:..... Galvanized Steel
 Material - Enclosure:..... Powder Coated Steel

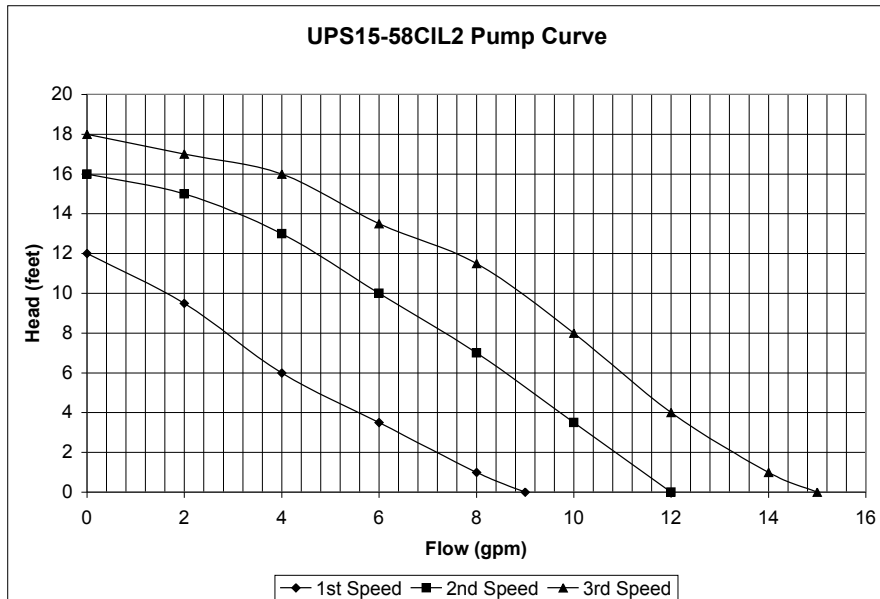
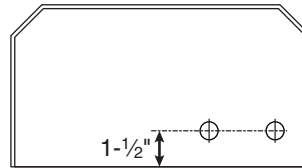
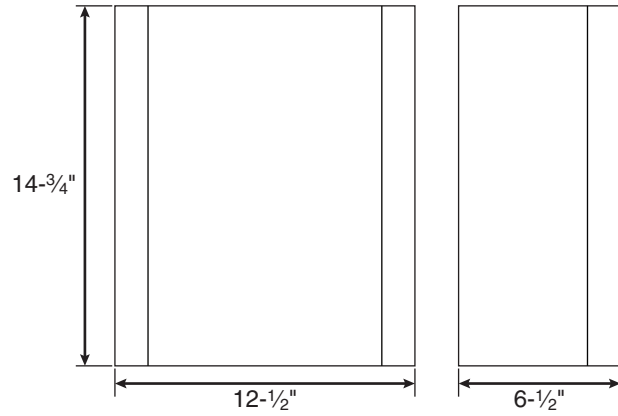
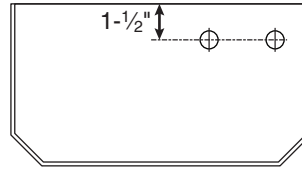
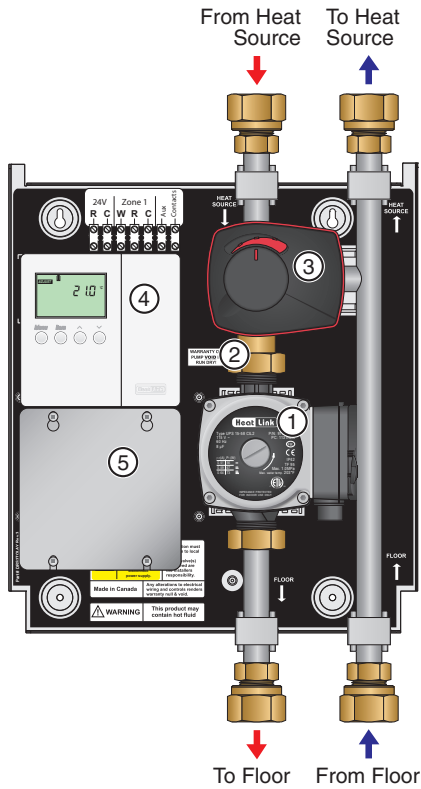
Standards / Listings

CAN/CSA-C22 No.14, UL508
 cETLus

Qty	Stk. #	Nominal Panel Output	Nominal Flow	Nominal Pressure Drop Outside of Panel	Valve Size	Valve Cv	Piping Connections	Weight
	TMP070RS	70,000 Btu/hr	7.0 US gpm @ 20 °F ΔT	11 ft	1"	7.3	1" FNPT	21 lb (9.5 kg)

Panel Components

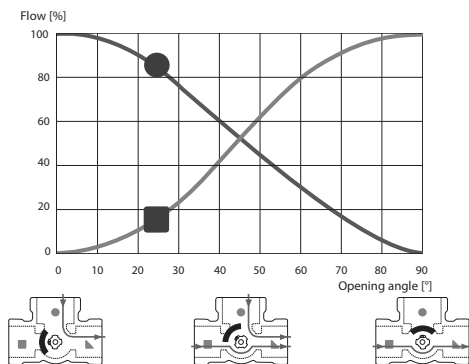
- ① UPS 15-58 Composite Pump
- ② 3-Way Mixing Valve
- ③ Mixing Valve Motor
- ④ Mixing Reset Control
- ⑤ Electrical Connection Box



Technical Data - 3-way Mixing Valve

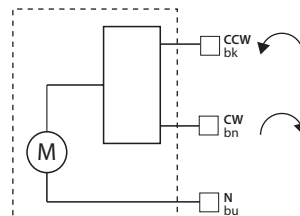
Mixing Valve Nominal Size: 1"
Mixing Valve Cv: 7.3
Material - Valve Body & Slide: Brass DZR
Material - Shaft & Bushing: PPS composite
Material - O-ring: EPDM
Max. Operating Temperature: 230°F (110°C)
Min. Operating Temperature: -15°F (-10°C)
Max. Operating Pressure: 145 psi (10 bar)
Max. Differential Pressure: Mixing - 14.5 psi (1 bar)
..... Diverting - 20 psi (2 bar)
Leaking in % of flow*: Mixing - <0.05%
..... Diverting - <0.02%
Max. Torque: <44lb*in (<5Nm)

*based on diff. pressure of 14.5 psi (1 bar)

**Technical Data - 3 Point Floating Mixing Valve Motor**

Ambient Temperature: max. 131°F (55°C)
..... min. 23°F (-5°C)
Power Supply: 24 ± 10% VAC 50/60 Hz
Enclosure Rating: IP41
Protection Class: II
Torque: 6 Nm
Power Consumption - Dimensioning: 24V: 3 VA
Rating Auxiliary Switch: 6(3)A 250VAC
Running Time 90°: 45/120 sec

The motor should be preceded by a multi-pole contact breaker in the fixed installation.



CE LVD 2006/95/EC
EMC 2004/108/EC
RoHS 2002/95/EC

Installation

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

Maintenance

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

Related Documents

- TMP070RS Installation, Operation, and Maintenance Manual Instructions (L6TMP070RS)
- HeatLink Limited Heating Warranty