Job or Customer :	
Location :	
Engineer :	
☐ Complies with Spec ☐ Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

The SMP335-654 and SMP425-654 Snow Melt Panels are central operations centers for fully automatic snow melt systems requiring isolation. Housing the snow melt pump, mixing valve, and controls, it also contains brazed plate heat exchangers to isolate the snow melt system glycol mixture from the heating system water. On the snow melt side, this panel incorporates an air eliminator, a pressure relief valve, and taps for an expansion tank and make up water. The included 30680 snow melt control uses Snow/Ice Detector #30090 and Snow/Ice Sensor Socket #30091 (both sold separately).

Qty	Stk. #	Nominal Panel Output* see conditions below	Heat Exchanger Size	Pump	Weight
	SMP335-680	335,000 btu/hr	4× 3×8-20	Ferrous, UP43-110	
	SMP425-680	425,000 btu/hr	4× 3×8-30	Ferrous, UP43-110	165 lbs. (74.8 kg)

Note: When ordering, please include a copy of the completed submittal.

Technical Data

	Specifications
Material - Backplate and Sides	Galvanized steel
Material - Cover	Powder coated steel
Material - Piping	Type L & M copper
Temperature Control Method	1¼" 3-way diverting valve and motorized actuator, controlled by a snow melt control
Mixing Valve Cv	18.6
Temperature Control Range	50-180°F (10-82°C)
Piping Connections	1½" FNPT
Expansion Tank Fitting	½" FNPT
Cold Water Fill	¾" hosebib
Max Ambient Temperature	120°F (93°C)
Max Water Temperature	200°F (93°C)
Max Operating Pressure on Secondary Side	100 psi (689 kPa)
Power Supply	Hard-wired, requires shut off switch for maintenance/repairs, 15 Amp, 120V, 60Hz, single phase

Panel Output Conditions	SMP335-680		SMP425-680	
	Primary	Secondary	Primary	Secondary
Fluid type	Water	50% glycol	Water	50% glycol
Entering fluid temp (°F)	180	100	180	100
Exiting fluid temp (°F)	140	130	140	130
Flow rate (US gpm)	17	22	21	28
Headloss	14.3	–	16.8	–
Allowable pressure drop outside of panel (ft head)	–	32	–	29

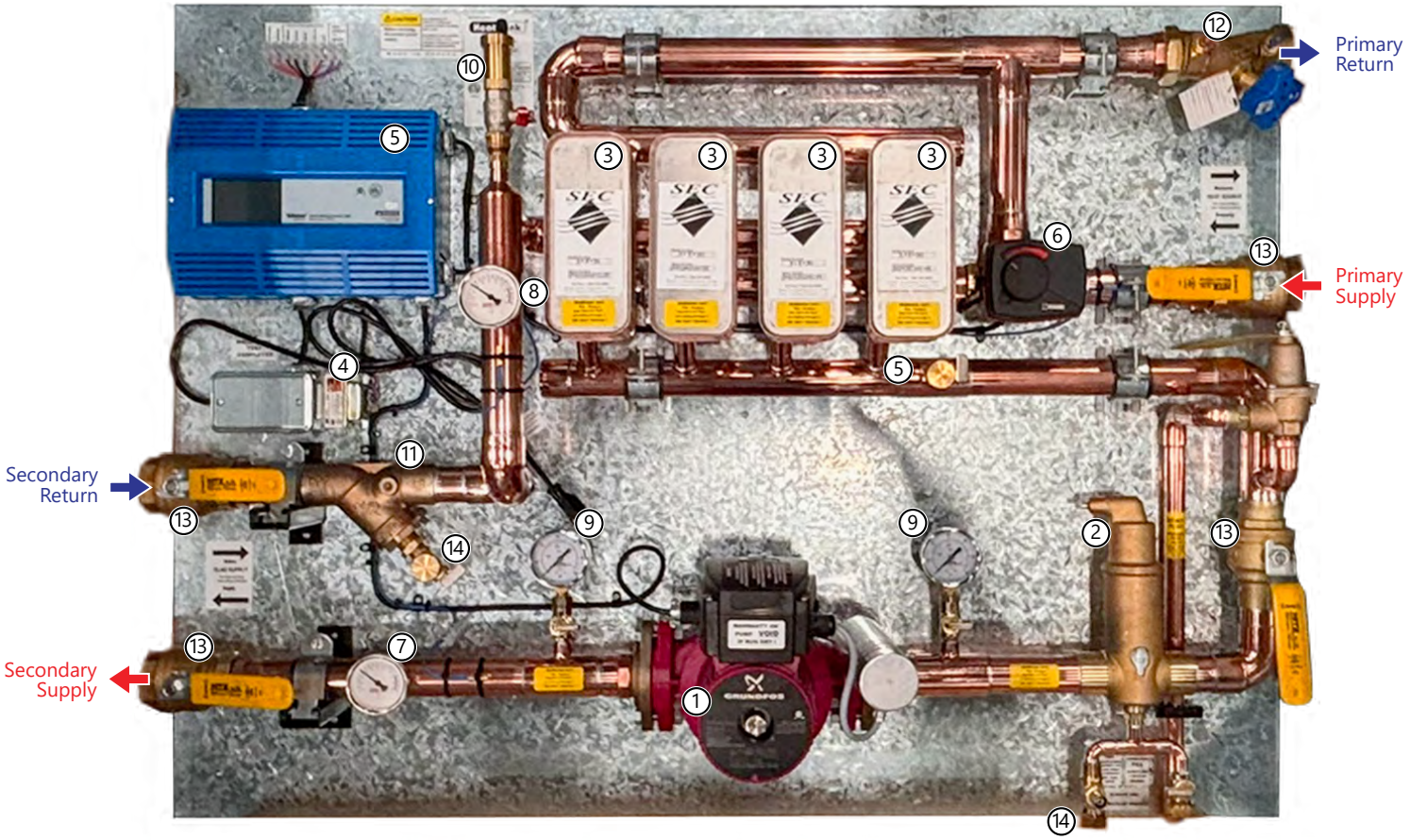
Standards / Listings

CAN/CSA-C22 No.14, UL508

cETLus

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Panel Diagrams



Panel Components



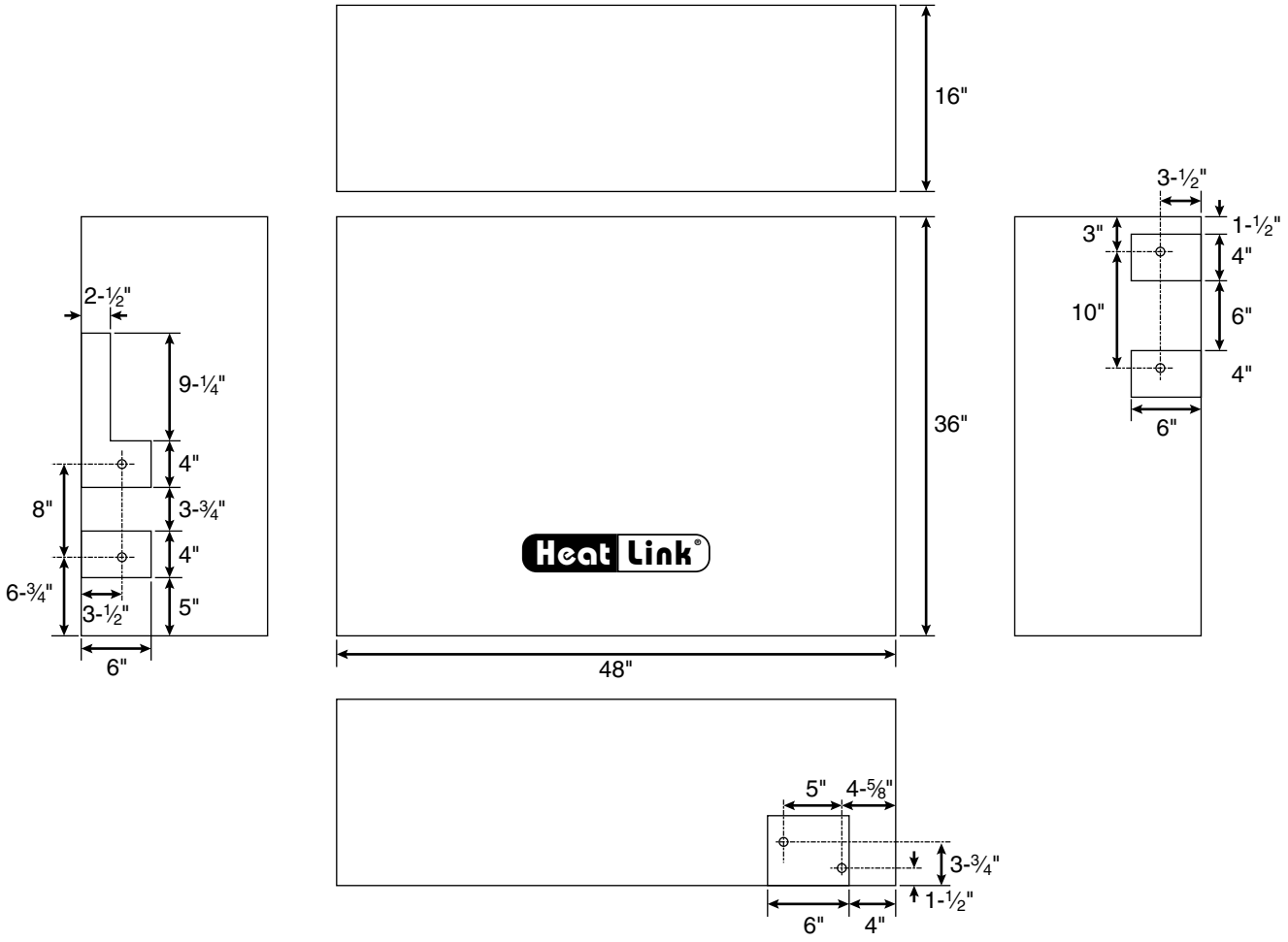
1. Secondary Pump
2. Air Eliminator
3. Heat Exchanger
4. 24Vac Transformer
5. Snow Melt Control
6. 3-Way Diverting Valve with Motor
7. Supply Sensor
8. Thermometer
9. Pressure Gauge
10. Automatic Air Vent
11. Strainer
12. Balancing Valve
13. Isolation Valve
14. Drain and Fill Valve
15. Pressure Relief Valve
16. Outdoor Sensor (#30070)

Panel Cover (not shown)

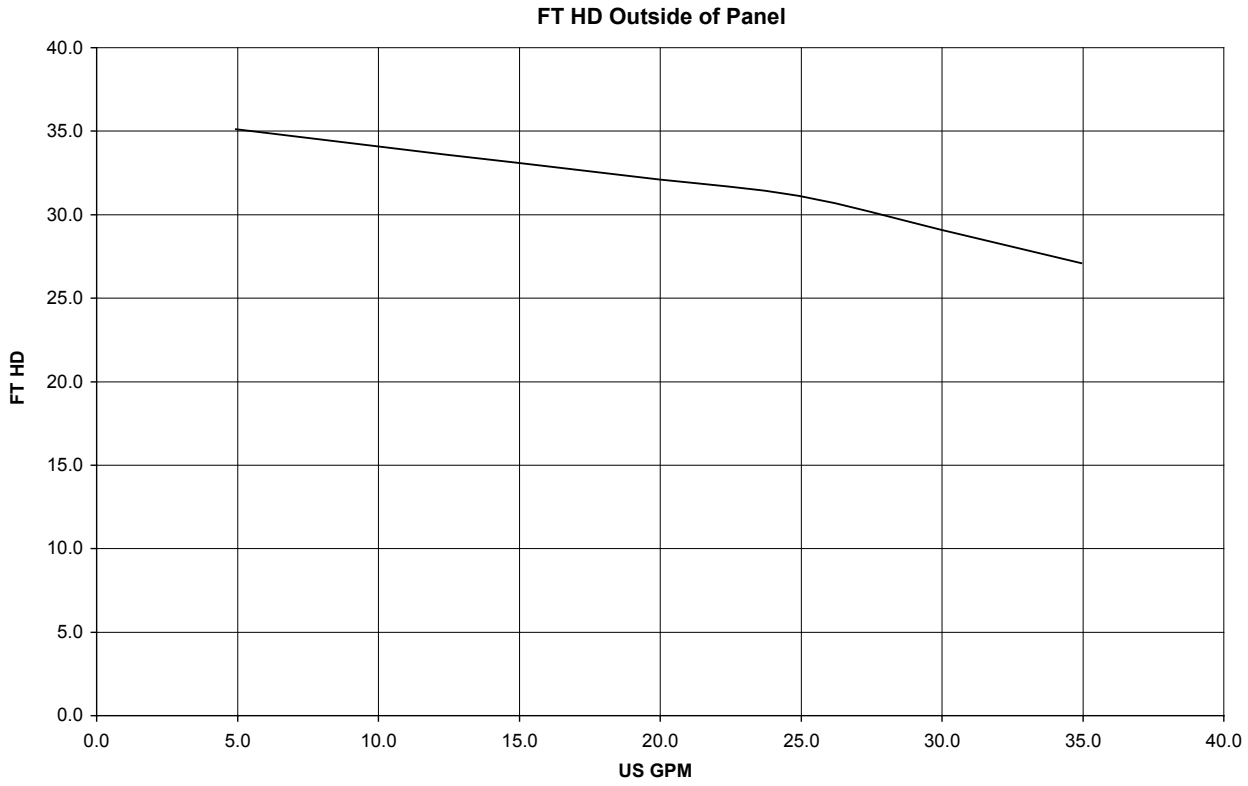
All information is subject to change without notice.
Please check our website to ensure you have the latest version of this document.

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Panel Dimensions



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Installation

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

Maintenance

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

Related Documents

- Operation and Maintenance Manual (L6SMP000-654)
- HeatLink Limited Heating Warranty

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