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SMP - Copper Snow Melt Panels with Heat Exchangers

Submittal - Page 1 of 4

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 SMP335 and SMP425 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. Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS (sold separately). Snow melt control can be changed to HeatLink® #31680 Snow Melt Control (OPT-SMP-680) which uses Snow/Ice Detector #30090 and Snow/Ice Sensor Socket #30091 (both sold separately).

Technical Data

Material - Backplate and Sides:.....galvanized steel
 Material - Cover:.....powder coated steel
 Material - Piping:.....type L & M copper
 Temperature Control Method:.....1-¼" 3-Way diverting valve and motorized actuator, controlled by snow melt control
 Mixing Valve Cv:18.6
 Temperature Control Range:50-180 °F (10-82°C)
 Piping Connections:.....1-½" FNPT
 Expansion Tank Fitting:½" FNPT
 Cold Water Fill:¾" hose bib
 Max Ambient Temperature:.....120°F (49°C)
 Max Water Temperature:200°F (93°C)
 Max Operating Pressure on secondary side:689 kPa / 100 psi
 Power Supply:Requires dedicated receptacle, 15 Amp, 120V, 60Hz, single phase.

Standards / Listings

CAN/CSA-C22 No.14, UL508
 cETLus

Qty	Stk. #	Nominal Panel Output* <i>see conditions below</i>	Heat Exchanger Size	Pump	Weight
	SMP335	335,000 btu/hr	4x 3x8-20	Ferrous, UP43-110	
	SMP425	425,000 btu/hr	4x 3x8-30	Ferrous, UP43-110	165 lbs. (74.8 kg)

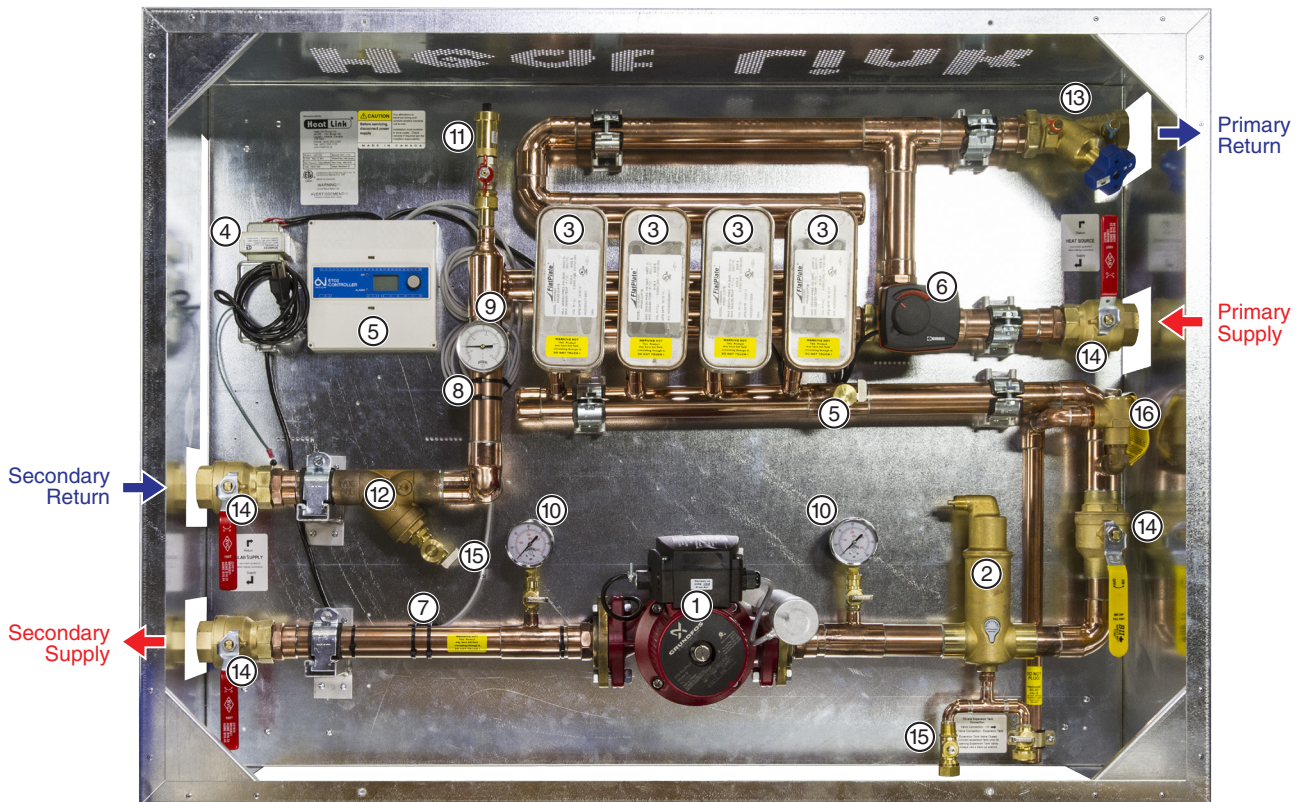
Options

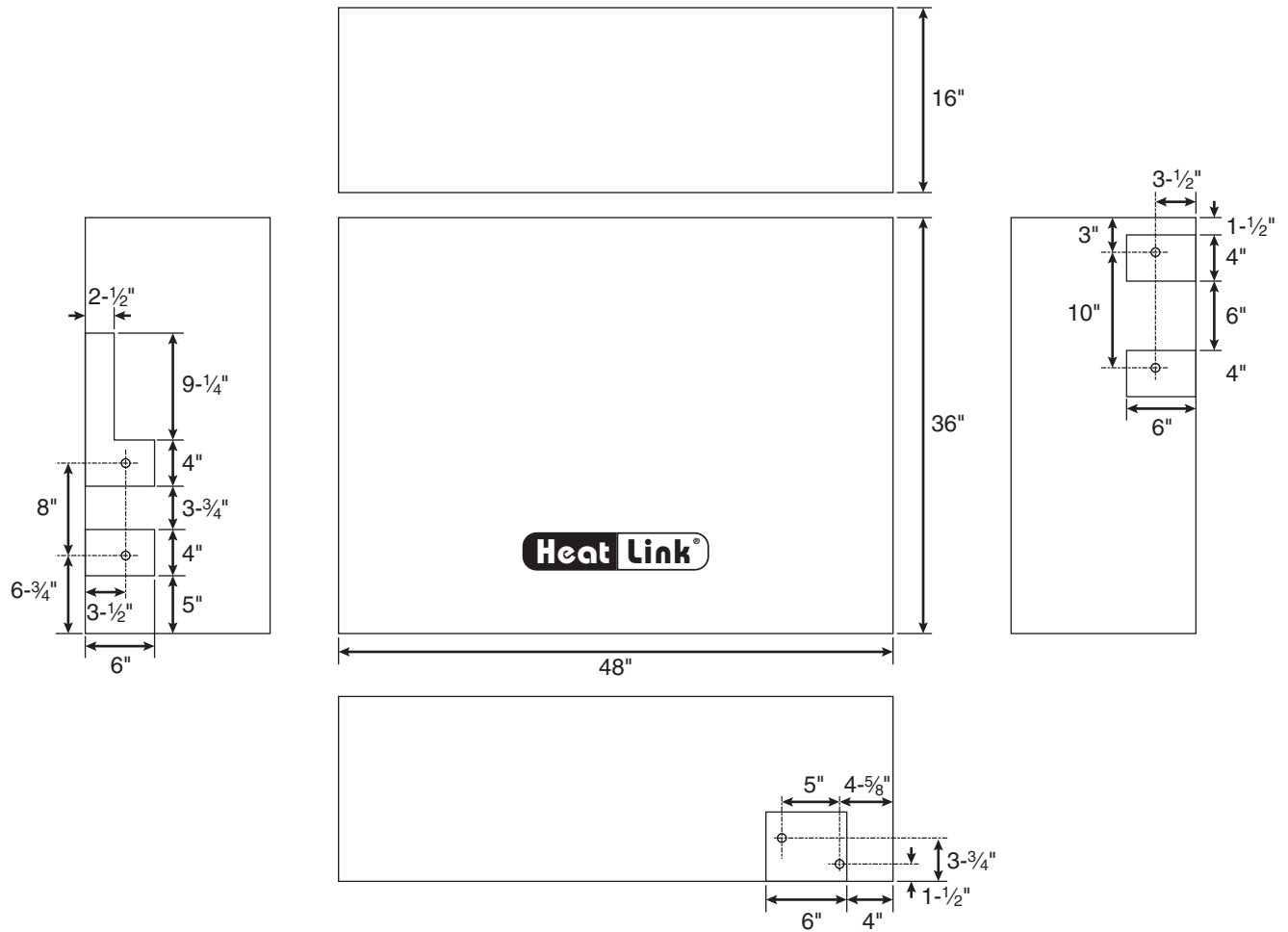
OPT-SMP-680 - replace standard snow melt control with HeatLink® #31680 Snow Melt Control (see SUB31680)

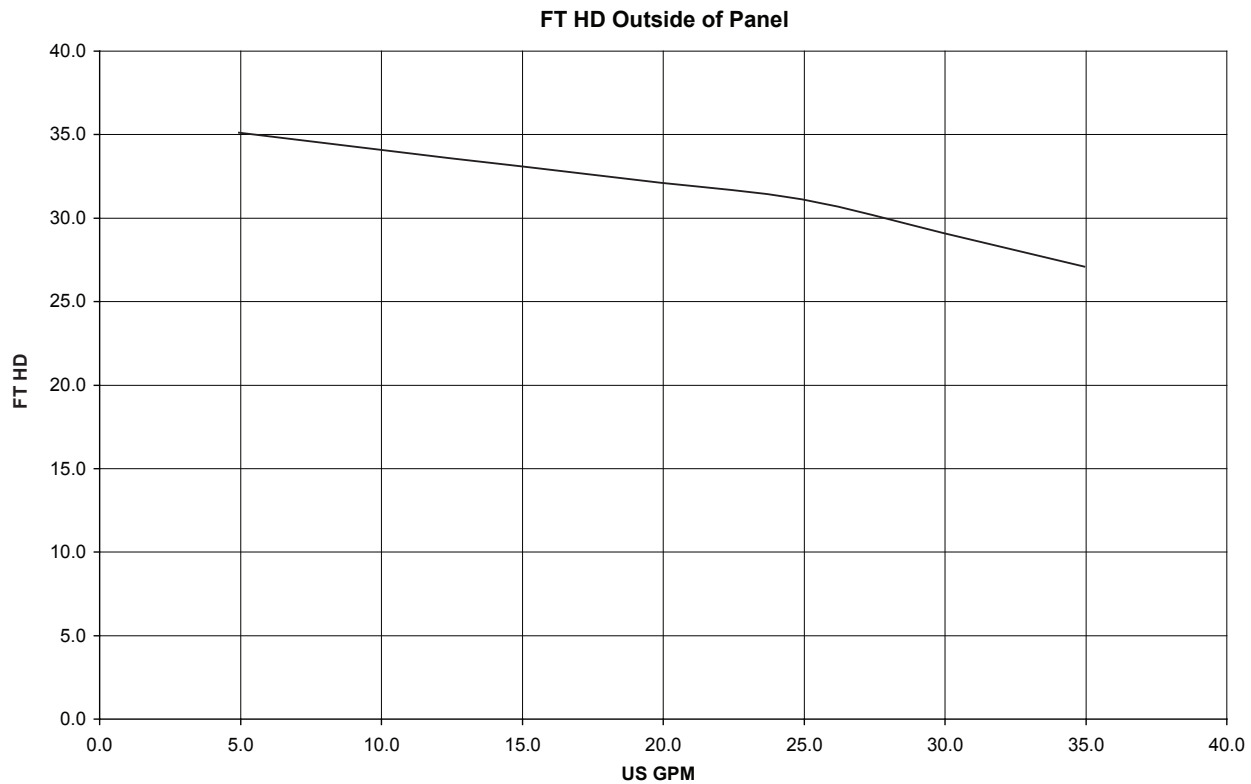
Panel Output Conditions	SMP335		SMP425	
	Primary	Secondary	Primary	Secondary
Fluid type	Water	50% glycol	Water	50% glycol
Entering fluid temp (°F)	180	100	180	100
Exiting fluid temp (°F)	140	130	140	130
Flow rate (US gpm)	17	22	21	28
Headloss	14.3	—	16.8	—
Allowable pressure drop outside of panel (ft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

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 Return Sensor
- ⑨ Thermometer
- ⑩ Pressure Gauge
- ⑪ Automatic Air Vent
- ⑫ Strainer
- ⑬ Balancing Valve
- ⑭ Isolation Valve
- ⑮ Drain and Fill Valve
- ⑯ Pressure Relief Valve
- Panel Cover (not shown)





**Installation**

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

Maintenance

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

Related Documents

- Snow Melt Panel Instructions (L6SMP000)
- HeatLink Limited Heating Warranty