

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

These Snow Melt Panels are operation centers for fully automatic snow melt systems. They are intended for snow melt systems with non-dedicated heat sources, therefore heat exchangers are included to separate the primary loop water from the secondary loop glycol mixture. Standard snow melt control uses Snow/Ice Detector #DRVWSNS-SS (sold separately). Snow melt control can be changed to HeatLink® #31680 Snow/Ice Detector and Melt Control (OPT-SMP-680) which uses Snow/Ice Detector #30090 and Snow/Ice Sensor Socket #30091 (both sold separately).

Technical Data

Max Ambient Temperature:..... 120°F (49°C)
 Max Water Temperature:..... 200°F (93°C)
 Max Operating Pressure:..... 125 psi (862 kPa)
 Temperature Control Method:..... 3-way Mixing Valve with DDC Motor
 Mixing Valve Size:..... 1-¼"
 Mixing Valve Cv:..... 11.6
 Temperature Control Range:..... 50-180°F (10-82°C)
 Power supply:..... 110V(ac); max. current 6A
 Auxiliary Terminal:..... 1
 Piping:..... 1" 304SS Tubing
 Piping Connections:..... ¾" and 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 <i>see conditions below</i>	Primary Circulator	Secondary Circulator	Heat Exchangers	Weight
	SMP175SS-HEX	175,000 Btu/hr	Ferrous, Grundfos UPS26-99FC	Ferrous, Grundfos UPS26-99FC	2× Single-wall brazed plate; FP3×8-20	93.5 lb (42.5 kg)
	SMP300SS-HEX	300,000 Btu/hr	Ferrous, Grundfos UPS26-99FC	Ferrous, Grundfos UPS26-99FC	2× Single-wall brazed plate; FP3×8-30	
	SMP300SS-HEX-H	365,000 Btu/hr	Ferrous, Grundfos UPS26-99FC	Ferrous, Grundfos UPS26-150FC	3× Single-wall brazed plate; FP3×8-30	
	SMP300SS-HEX-HH	365,000 Btu/hr	Ferrous, Grundfos UPS26-150FC	Ferrous, Grundfos UPS26-150FC	3× Single-wall brazed plate; FP3×8-30	

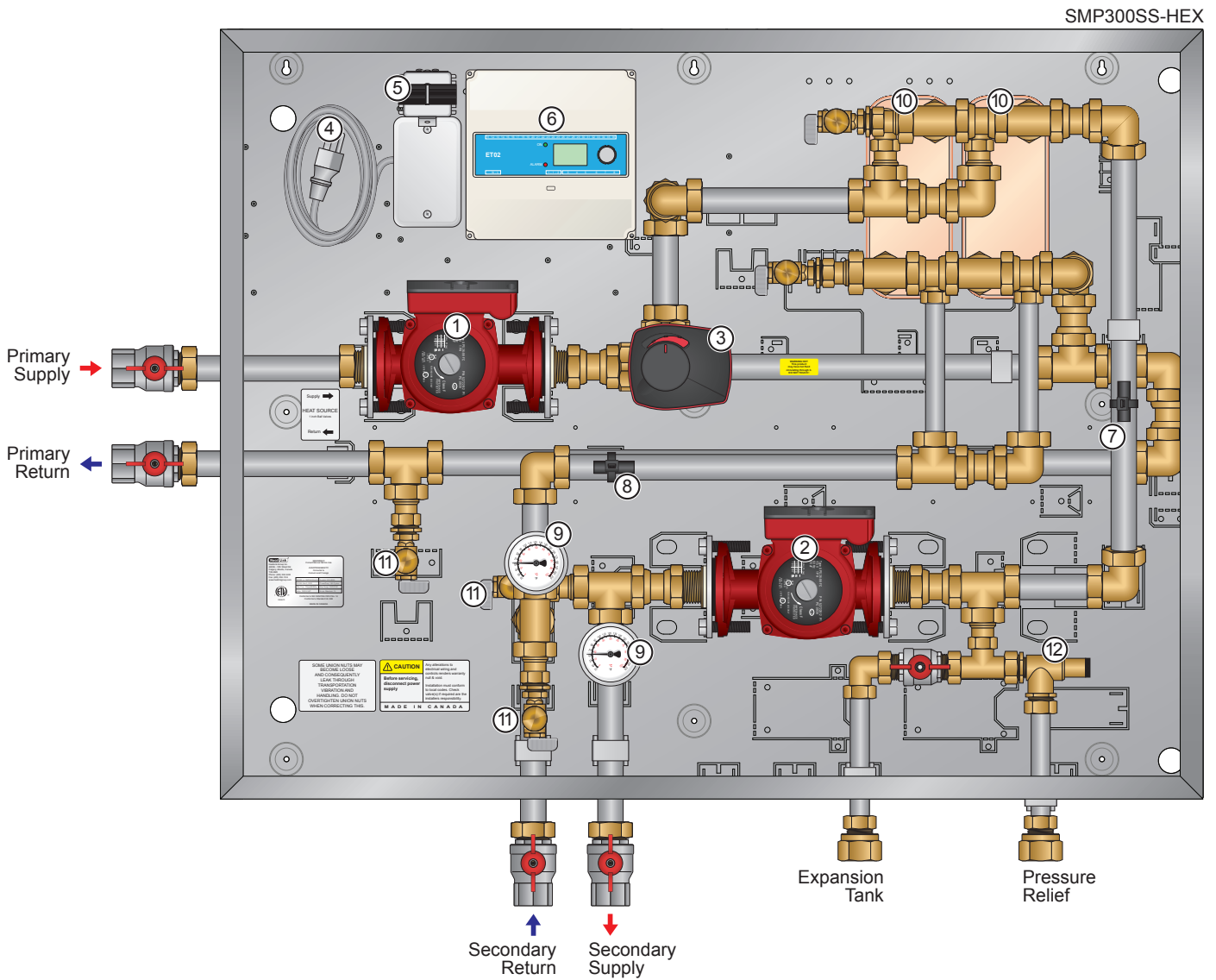
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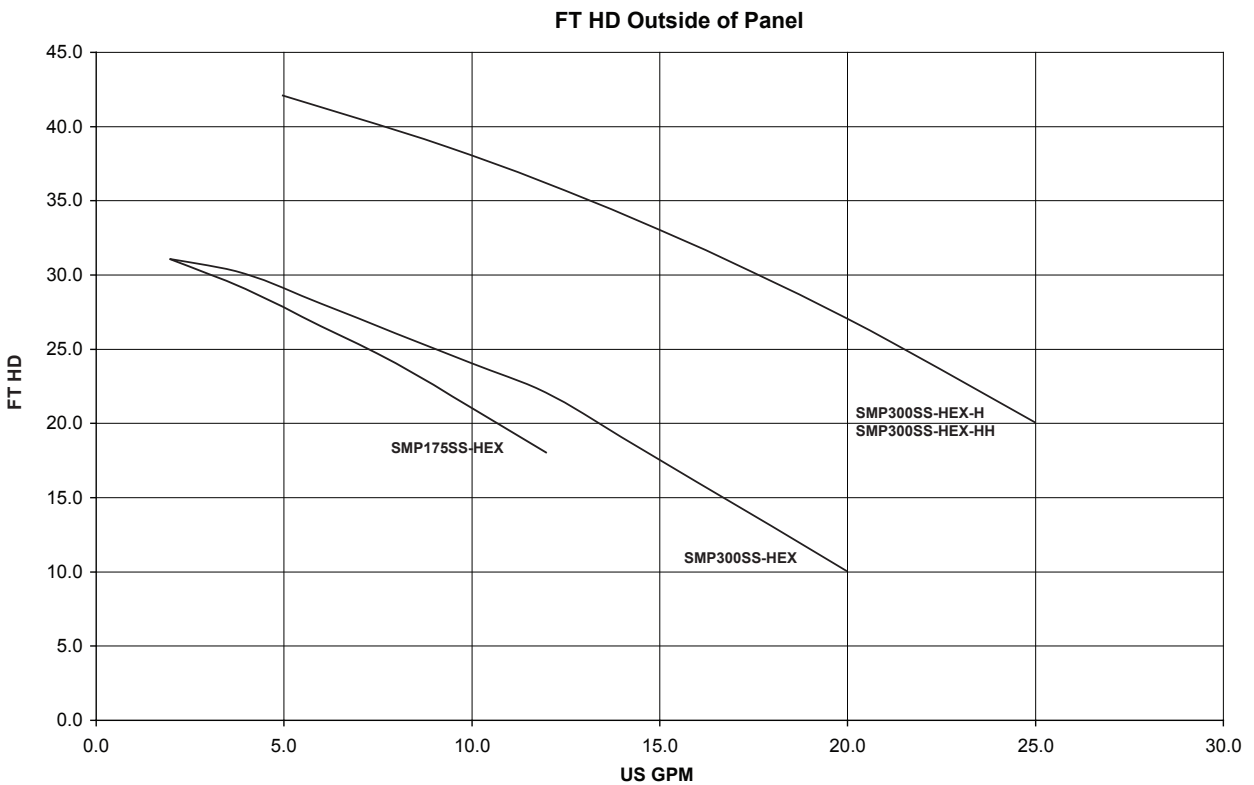
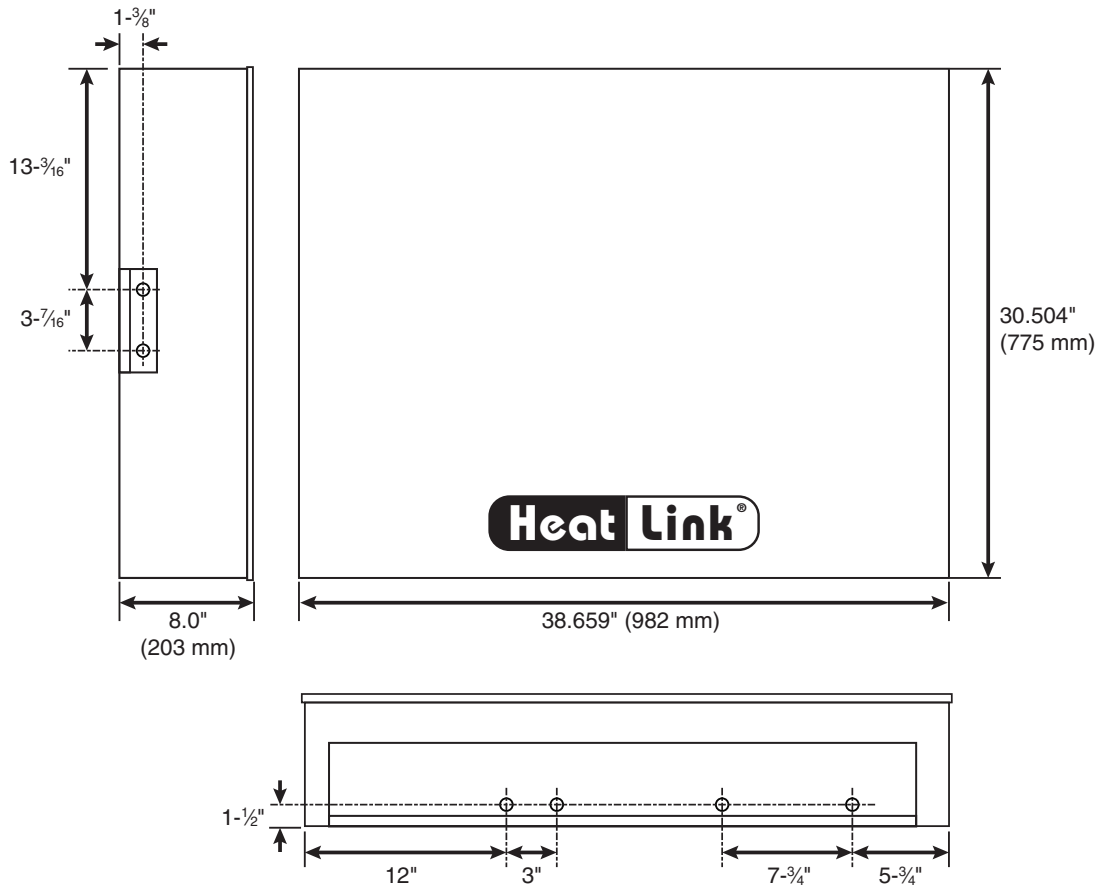
OPT-SMP-680 - replace standard snow melt control with HeatLink® #31680 Snow/Ice Detector and Melt Control (see SUB31680)

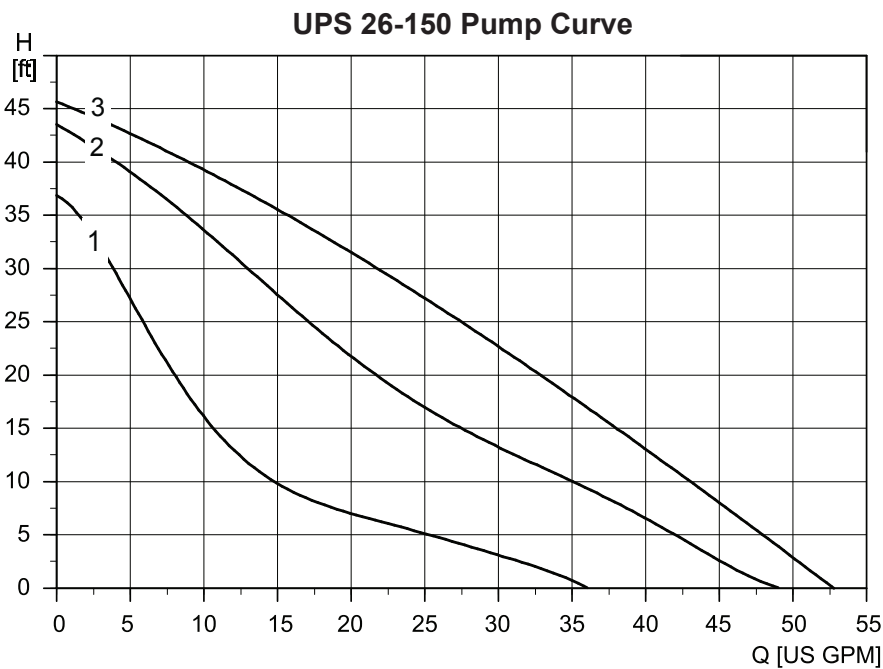
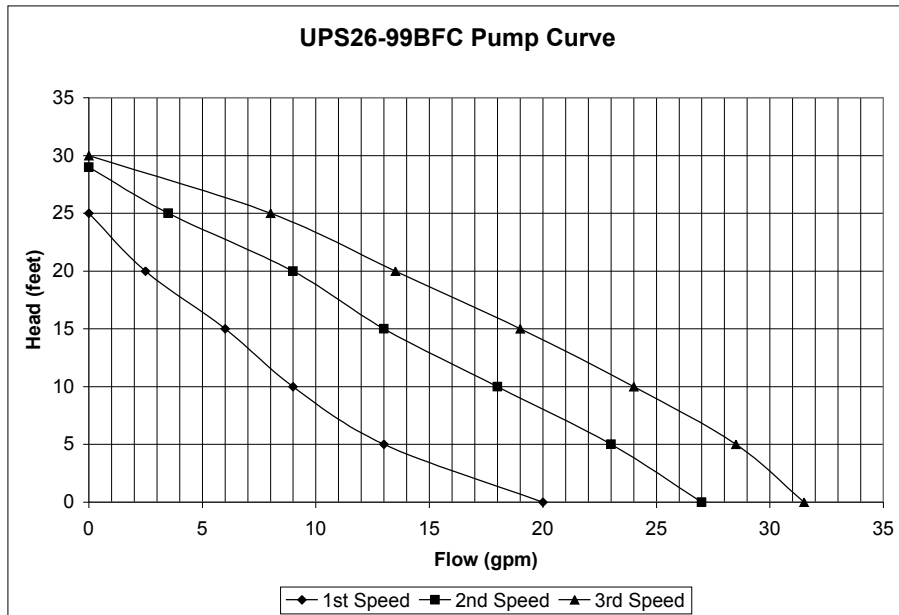
Panel Output Conditions	SMP175SS-HEX		SMP300SS-HEX		SMP300SS-HEX-H		SMP300SS-HEX-HH	
	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary
Fluid type	Water	50% glycol	Water	50% glycol	Water	50% glycol	Water	50% glycol
Entering fluid temp (°F)	185.0	110.0	185.0	110.0	182.0	110.0	182.0	110.0
Exiting fluid temp (°F)	155.0	141.2	155.0	143.7	152.0	142.8	152.0	142.8
Flow rate (US gpm)	12.0	12.6	20.6	20.0	24.9	24.9	24.9	24.9
Headloss	4.1	–	7.0	–	2.5	–	2.5	–
Allowable pressure drop outside of panel (ft head)	–	18	–	10	–	20	–	20

Panel Components

- ① Primary Pump
- ② Secondary Pump
- ③ 3-Way Mixing Valve and 24V DDC Motor
- ④ 6' Power Cord
- ⑤ 24V(ac) Transformer
- ⑥ Snow Melt Control
- ⑦ Supply Sensor
- ⑧ Return Sensor
- ⑨ Thermometer
- ⑩ Heat Exchanger
- ⑪ Drain and Fill Valve
- ⑫ Pressure Relief Valve







Installation

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

Maintenance

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

Related Documents

- SMP000SS Installation, Operation, and Maintenance Manual Instructions (L6SMP000SS)
- HeatLink Limited Heating Warranty