Job or Customer :	
Location :	
Engineer :	
☐ Complies with Spec ☐ 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 can be used for fully automatic snow melt systems with a dedicated heat source (e.g. a boiler or other non-DHW appliance), or a non-dedicated heat source with a heat exchanger.

The 680 Snow Melt control uses 30090 Snow/Ice sensor and 30091 Snow/Ice socket (sold separately).

Qty	Stk. #	Pump
	4WMIX-680	Ferrous, Grundfos UPS26-99FC
	4WMIXHH-680	Ferrous, Grundfos UPS26-150FC

Technical Data

	Specifications
Max ambient temperature	120ºF (49ºC)
Max operating temperature	200ºF (93ºC)
Max operating pressure	125 psi (862 kPa)
Temperature Control Method	4-Way Mixing Valve w/DDC Motor
Temperature Control Range	50-180ºF (10-82ºC)
Snow Melt Control option	OPT-SMP-680
Power supply	120V(ac)
Piping	1" 304SS Tubing, 1" Brass
Piping connections	1" FNPT
Material - backplate	16 Gauge galvanized steel
Material - enclosure	16 Gauge galvanized steel

Standards / Listings

CAN/CSA-C22 No.14, UL508

cETLus

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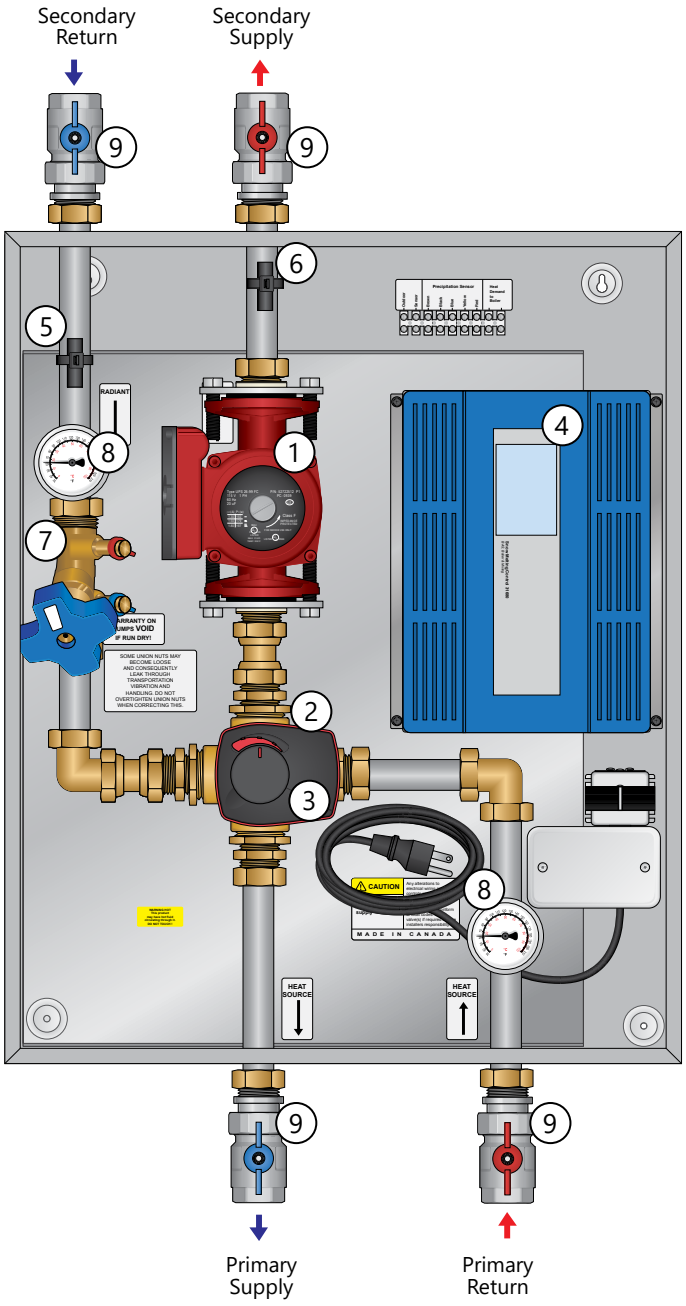
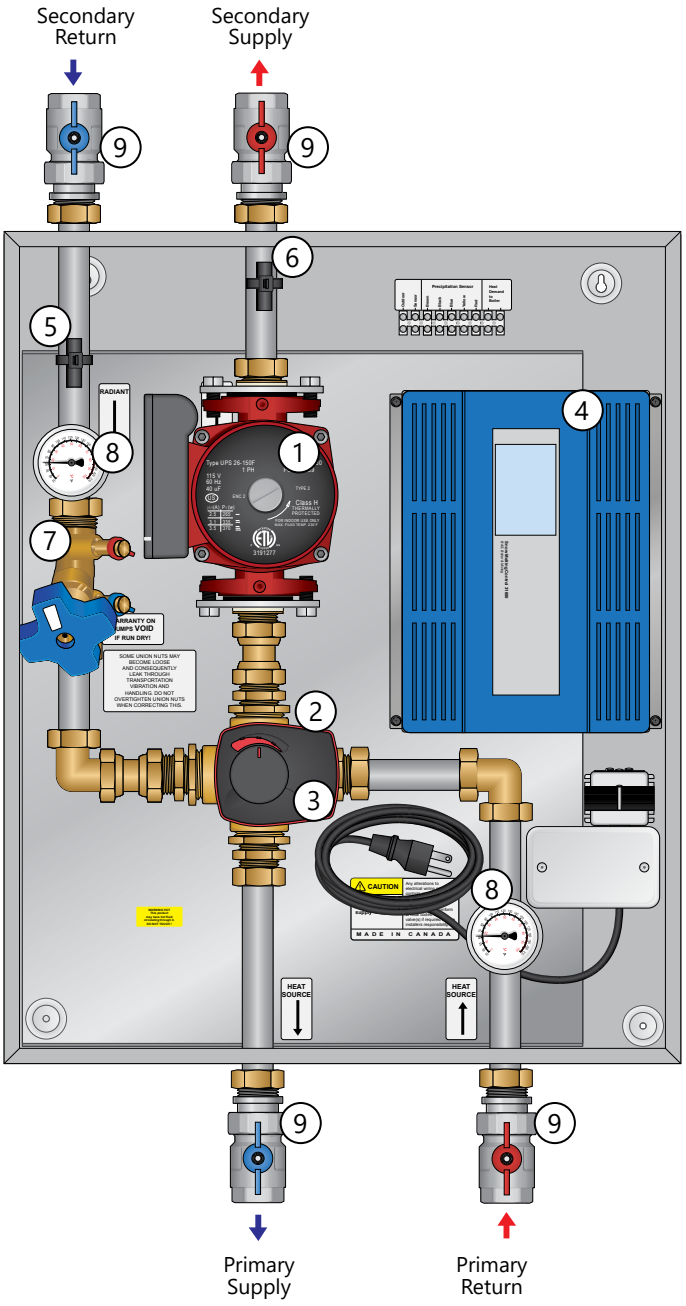
Panel Diagrams

4WMIX-SMCP-BAC



4WMIX-HH-SMCP-BAC



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Panel Dimensions

	Enclosure Dimensions			Cover Dimensions	
Stk. #	Width	Height	Depth	Width	Height
4WMIX-680 4WMIXHH-680	22.0” (559mm)	27.0” (686mm)	8.00” (203mm)	22.25” (565mm)	27.25” (692mm)

*See page 6 for diagram

Panel Components

#	Components	Component Description	Part Number	
			4WMIX-680	4WMIXHH-680
1	Secondary pump	Moves the heated fluid through the system when there is a call for heat from the system controller.	UPS26-99	UPS26-150
2	1¼” Mixing valve (hidden)	4-way brass mixing valve regulates the temperature in the hydronic system with the help of the electric motor actuator and system controller.		
3	DDC Mixing Valve Motor	Mounted to the control valve and moves the valve appropriately to allow the heated fluid to enter. Works in conjunction with the system controller.		
4	Snow Melt control	The system controller regulates the panel operation.	31680	
5	Return sensor	Temperature sensor on the system return piping.		
6	Supply sensor	Temperature sensor on the system supply piping.		
7	Balancing valve	Adjusts flow.		
8	Thermometer	Shows system temperature.		
9	Isolation valve assemblies*	Zone valve used to isolate the panel from the system during fill & purge, and maintenance.		

*Packaged in accessory box for shipping.

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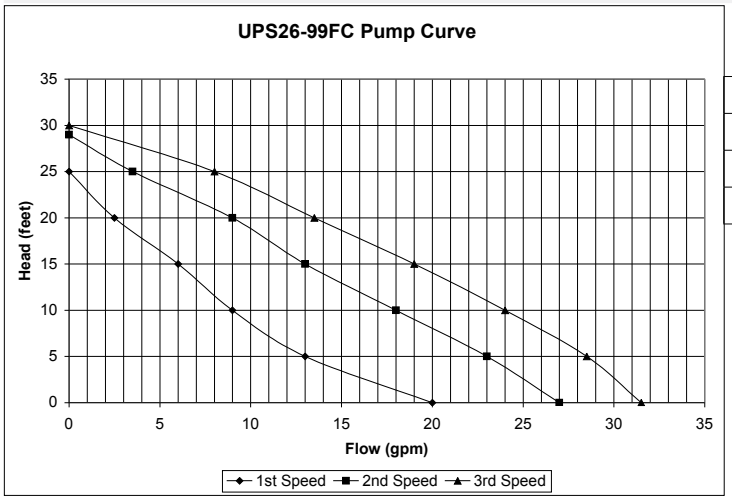
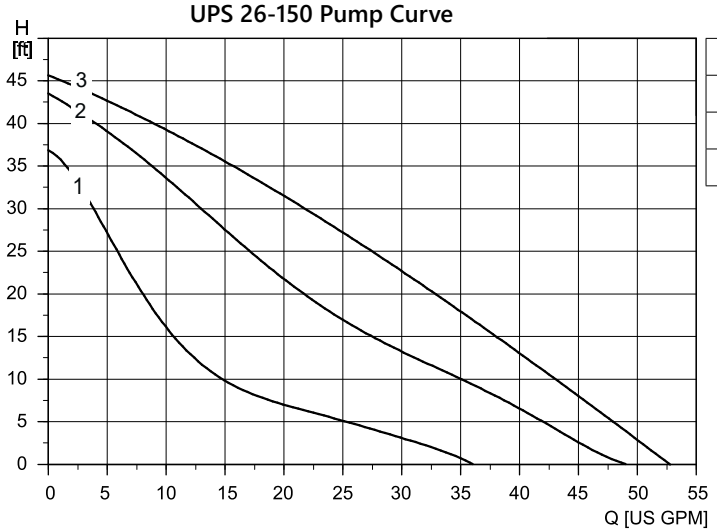
Pump Technical Data

	Model Number	
	UPS 26-99FC	UPS 26-150 FC
Material		
Inlet cone, bearing plate, bearing retainers, rotor can, rotor cladding, shaft retainer	Stainless steel	
Stator housing	Aluminum	
Shaft, upper and lower radial bearings	Aluminum oxide ceramic	
Thrust bearing	Carbon bearing and EPDM retainer	
Check valve	ACETA with 302 SS spring and nitrile rubber seats	
Pump housing (volute)	Cast iron	
O-ring and gaskets	EPDM	
Impeller	PES composite (30% glass filled)	
Terminal box	Noryl® with EPDM gasket	
Flow range	0-33 US gpm (0-7.5 m^3/h)	0-53 US gpm (0-12 m^3/h)
Head range	0-29 ft(0-8.8 m)	0-46 ft (0-14 m)
Motors	2-pole, single phase	
Max. liquid temperature	230ºF (110ºC)	
Min. liquid temperature	36ºF (2ºC)	
Max. system temperature	145 psi (10 bar)	



Speed	Volts	Amps	Watts	Hp	Capacitor
3	115	1.8	197	1/6	20 µF/180V
2		1.5	179	1/6	
1		1.3	150	1/6	



Speed	Volts	Amps	Watts	Hp	Capacitor
3	115	3.5	370	1/6	40 µF/180V
2		3.1	335	1/6	
1		2.5	265	1/6	

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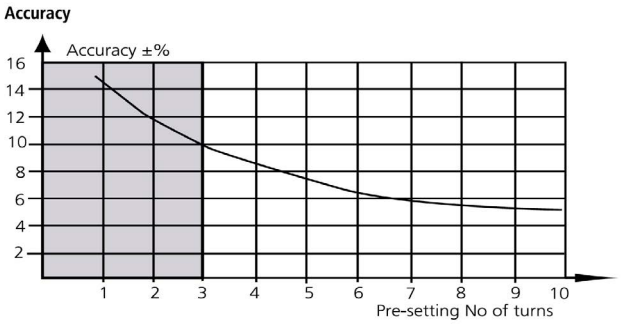
Balancing Valve Technical Data

Technical Data - Balancing Valve

Pressure Class:.....PN 20
Max. Temperature:.....248ºF (120ºC)
Min. Temperature:.....-4ºF (-20ºC)
Max. Closing Pressure:.....10 bar
Min Pressure Drop:.....2 kPa
Body Material:.....Dezincification resistant brass
Gasket Material:.....EPDM

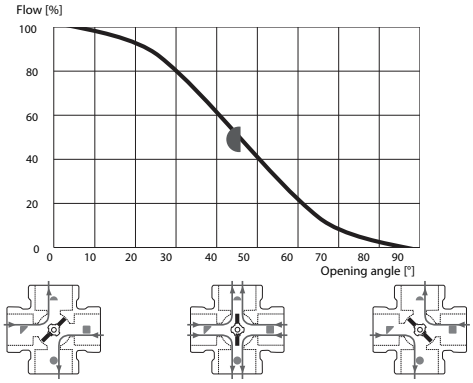


Mixing Valve Technical Data

Technical Data - 4 Way Mixing Valve

Mixing Valve Nominal Size:.....1-¼"
Mixing Valve Cv:.....18.7
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:.....14.5 psi (1 bar)
Leaking in % of flow*:.....<1.0%
Max. Torque:.....<44lbf*in (<5Nm)

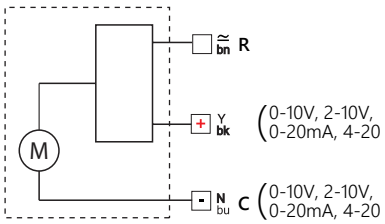
*based on diff. pressure of 14.5 psi (1 bar)



Technical Data - DDC Mixing Valve Motor

Ambient Temperature:.....max. 131°F (55°C)
min. 23°F (-5°C)
Power Supply:.....24±10% Vac/dc, 50/60 Hz
Enclosure Rating:.....IP41
Protection Class:.....II
Torque:.....6 Nm
Power Consumption - Operation:.....AC: 5W
DC: 2.5W
Power Consumption - Dimensioning:.....AC: 8 VA
DC: 4 VA
Rating Auxiliary Switch:.....6(3)A 250Vac
Running Time 90°:.....45/120 sec
Control Signal.....0-10V, 2-10V, 0-20mA, 4-20mA

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

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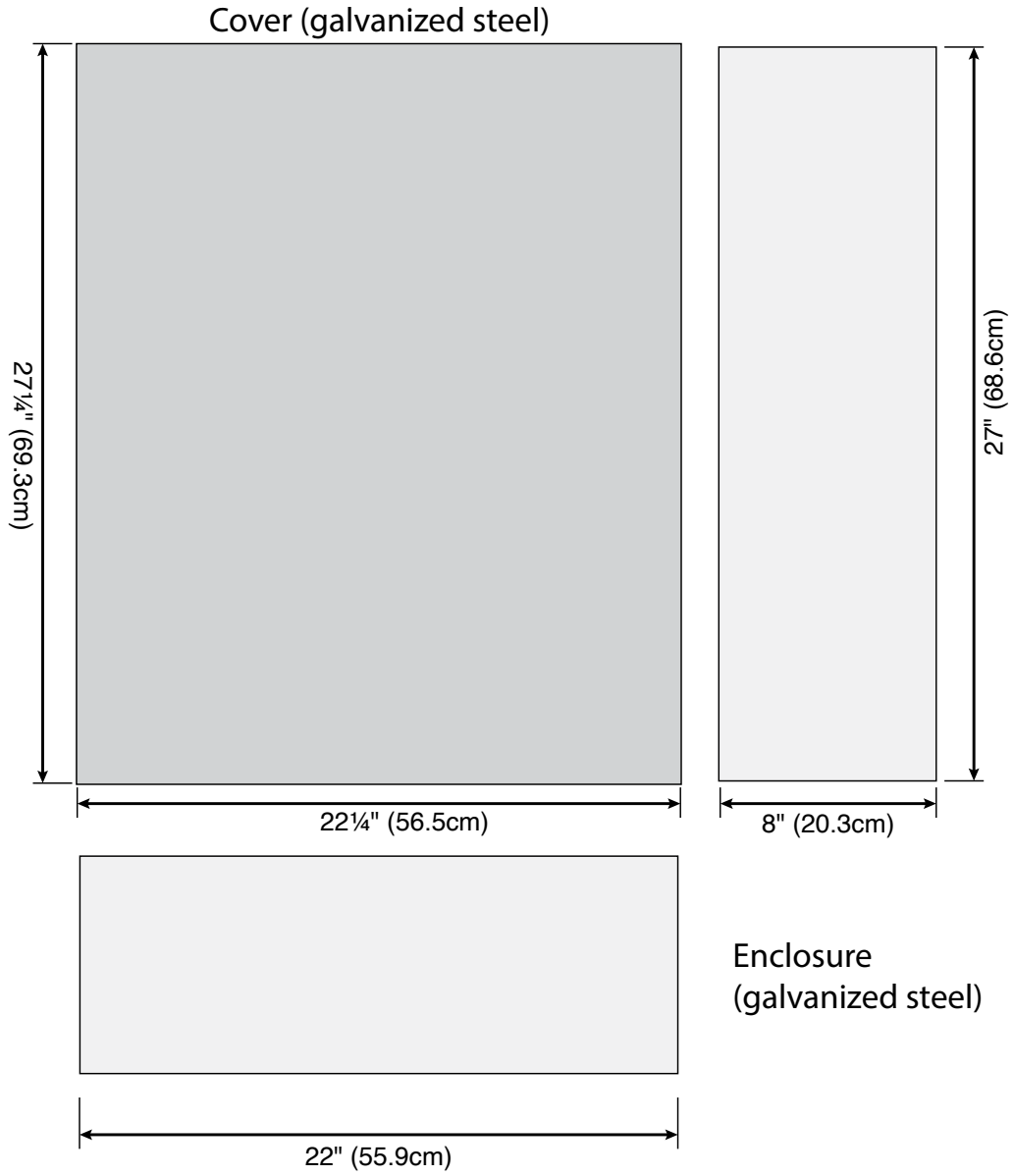
Panel Dimensions



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 (L6-4WMIX)
- HeatLink Limited Heating Warranty

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