

4-Way Mixing Snow Melt Panel (BACnet option) Submittal - Page 1 of 6

Job or Customer	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 are intended for snow melt systems with a dedicated heat source (e.g. a boiler or other non-DHW appliance), therefore no heat exchangers are required.

OPT-SMP-680 Snow Melt control uses 30090 Snow/Ice sensor and 30091 Snow/Ice socket (sold separately). Required OPT-SMP-680 option selected below.

Qty	Stk. #	Pump	Control Option (required)	Qty
	4WMIX-SMCP-BAC	Ferrous, Grundfos UPS26-99FC	OPT-SMP-680	
	4WMIX-HH-SMCP-BAC	Ferrous, Grundfos UPS26-150FC	OPT-SMP-680	

Technical Data

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

Standards / Listings

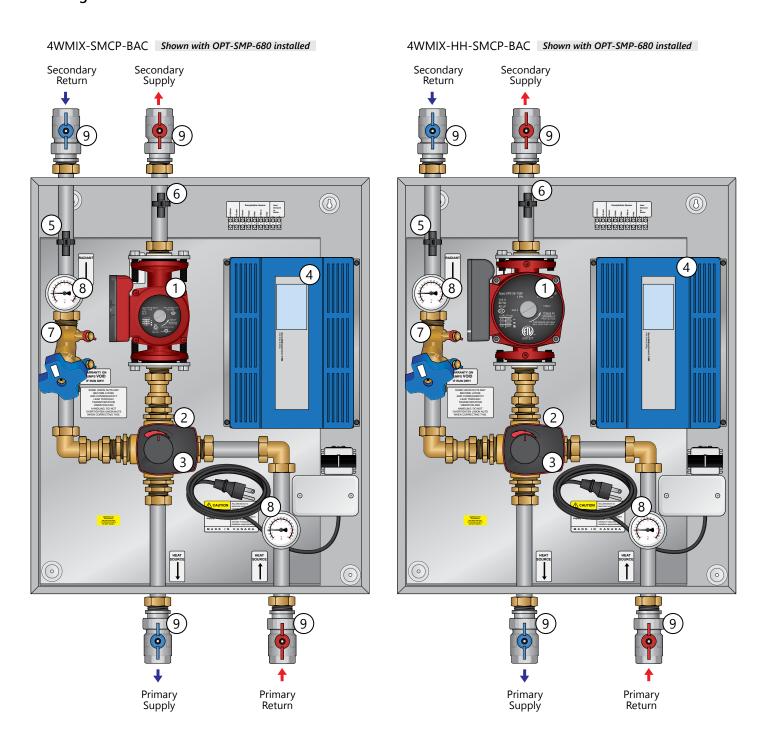
CAN/CSA-C22 No.14, UL508

cETLus

^{*}See SUB31680 for details.



Panel Diagrams





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Panel Dimensions

	Enclosure Dimensions			Cover Dimensions	
Stk. #	Width	Height	Depth	Width	Height
4WMIX-SMCP-BAC	22.0"	27.0"	8.00"	22.25"	27.25"
4WMIX-HH-SMCP-BAC	(559mm)	(686mm)	(203mm)	(565mm)	(692mm)

^{*}See page 6 for diagram

Panel Components

# Components		Component Description	Part Number		
		Component Description	4WMIX-SMCP-BAC	4WMIX-HH-SMCP-BAC	
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.	OPT-SMF	2-680 (option)	
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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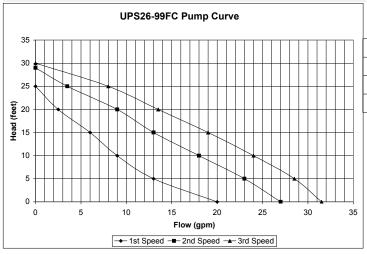
Pump Technical Data

Model Number

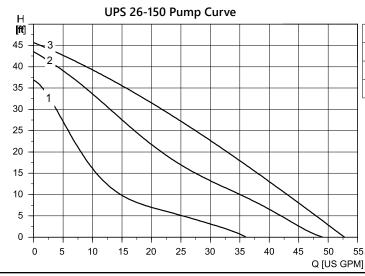
UPS 26-99FC

UPS 26-150 FC

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Material		
Inlet cone, bearing plate, bearing retainers, rotor can, rotor cladding, shaft retainer	Stainles	s steel
Stator housing	Aluminum	
Shaft, upper and lower radial bearings	Aluminum ox	kide ceramic
Thrust bearing	Carbon bearing ar	nd 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	230°F (110°C)	
Min. liquid temperature	36°F (2°C)	
Max. system temperature	145 psi (10 bar)	
	,	



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



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

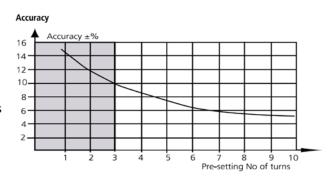


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Balancing Valve Technical Data

Technical Data - Balancing Valve

Pressure Class:	PN 20
Max. Temperature:	248°F (120°C)
Min. Temperature:	4°F (-20°C)
Max. Closing Pressure:	10 bar
Min Pressure Drop:	
Body Material:	Dezincification resistant brass
Gasket Material:	

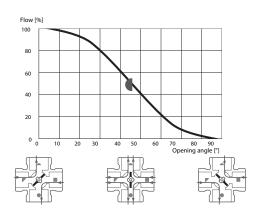


Mixing Valve Technical Data

Technical Data - 4 Way Mixing Valve

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Mixing Valve Nominal Size:	1-1/4"
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:	
Max. Operating Pressure:	145 psi (10 bar)
Max. Differential Pressure:	14.5 psi (1 bar)
Leaking in % of flow*:	<1.0 ['] %
Max. Torque:	

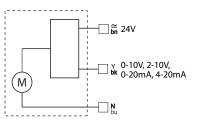
^{*}based on diff. pressure of 14.5 psi (1 bar)

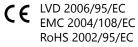


Technical Data - DDC Mixing Valve Motor

1°F (55°C)
°F (-5°C)
6 Vac/dc, 50/60 Hz
N
4
A
50Vac
sec
2-10V, 0-20mA, 4-20mA

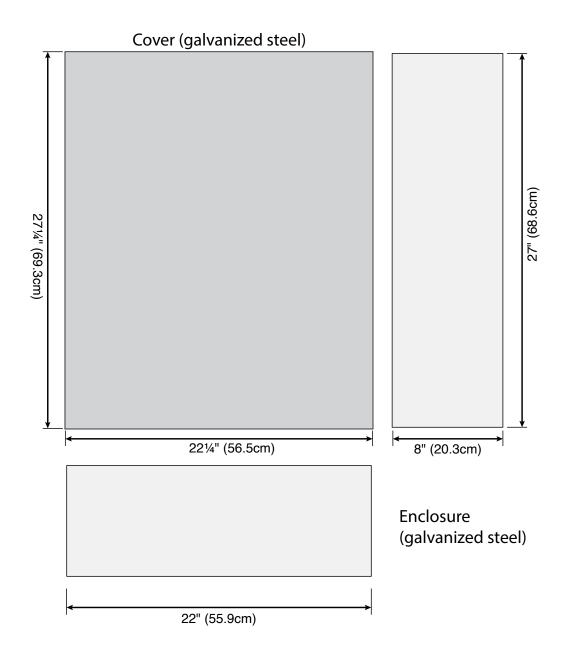
The motor should be preceded by a multi-pole contact breaker in the fixed installation.







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