

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 a dedicated heat source (e.g. a boiler or other non-DHW appliance), therefore no heat exchangers are required. The included 30654 snow melt control uses Snow/Ice Detector #30090 and Snow/Ice Sensor Socket #30091 (both sold separately).

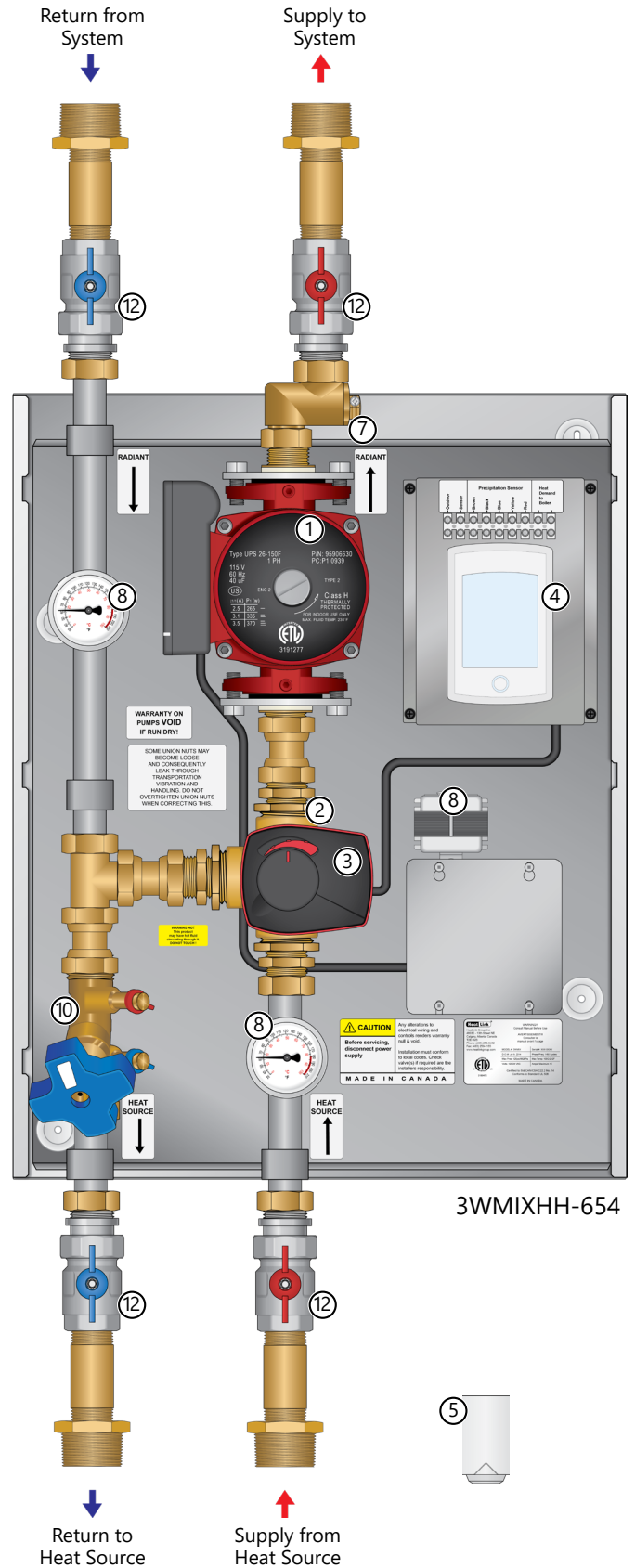
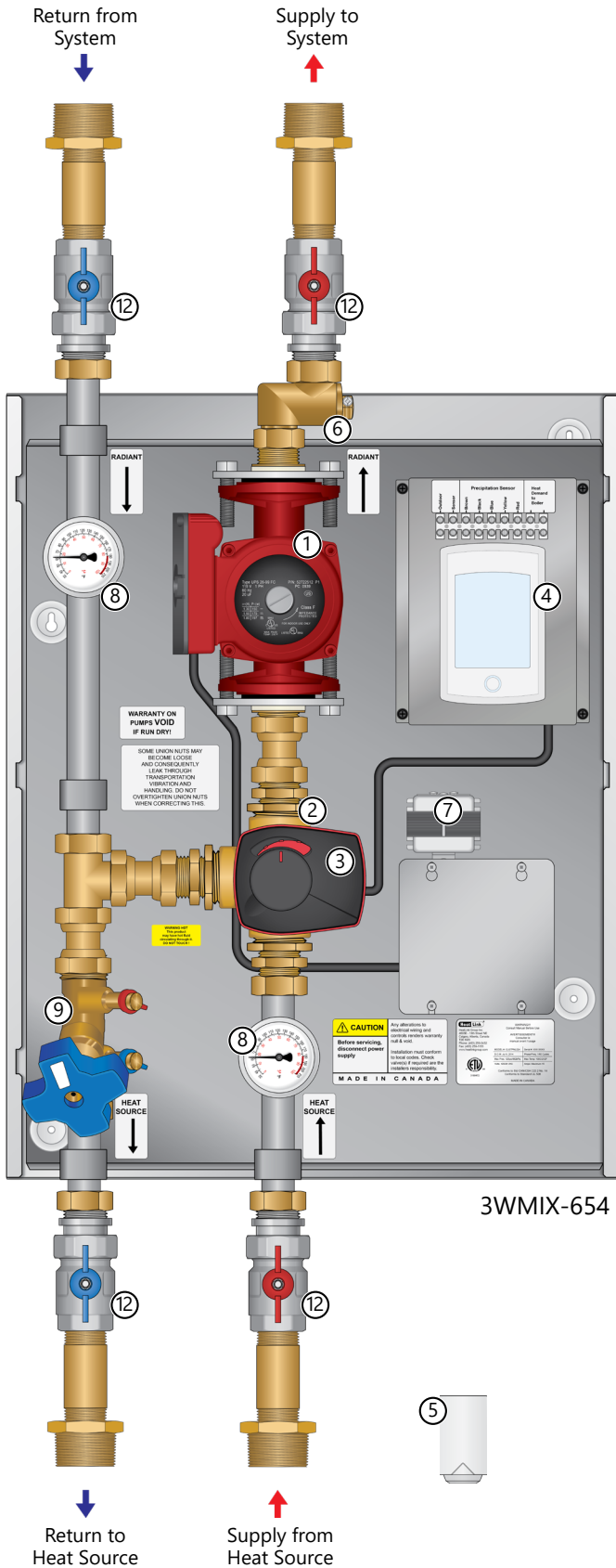
Qty	Stk. #	Secondary Pump
	3WMIX-654	Ferrous, Grundfos UPS26-99FC
	3WMIXHH-654	Ferrous, Grundfos UPS26-150FC

Technical Data

	Specifications
Max ambient temperature	120°F (49°C)
Max operating temperature	200°F (93°C)
Max operating pressure	125 psi (862 kPa)
Temperature Control Method	3-Way mixing valve w/DDC motor
Temperature Control Range	50-180°F (10-82°C)
Power supply	120/24 V(ac)
Piping	1" 304SS Tubing
Piping connections	1½" MNPT
Material - backplate	16 Gauge galvanized steel
Material - enclosure	Powder coated steel

Standards / Listings
CAN/CSA-C22 No.14, UL508
cETLus

Panel Diagrams

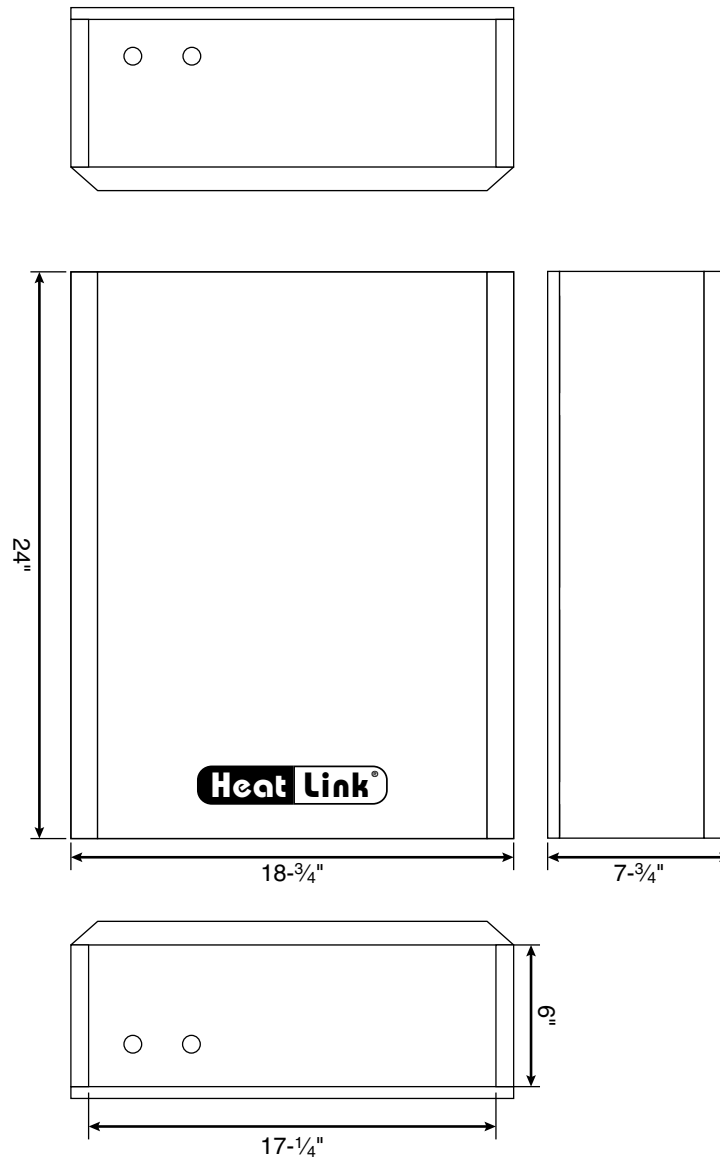


Panel Components

- ① Secondary Pump
- ② 1¼" Mixing valve (hidden)
- ③ DDC Mixing valve motor
- ④ Snowmelt control w/terminal block
- ⑤ Outdoor sensor
- ⑥ Supply sensor
- ⑦ Balancing valve
- ⑧ Thermometer
- ⑨ 24V Transformer
- ⑩ Isolation valve assemblies*
Panel cover (not shown)

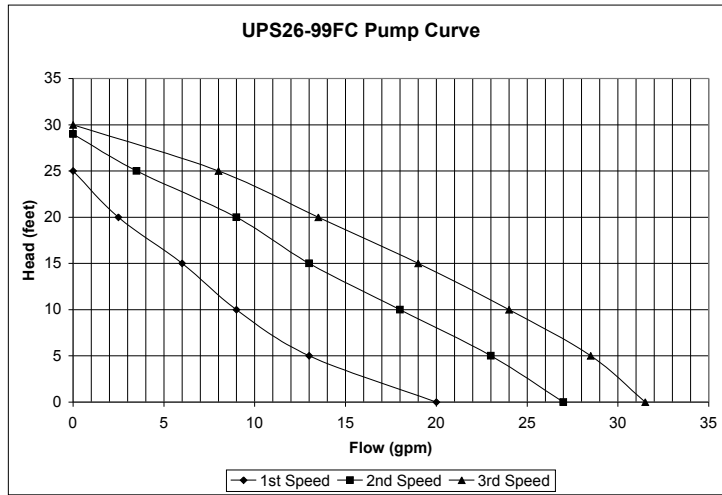
*Packaged in accessory box for shipping.

Enclosure and Panel Dimensions

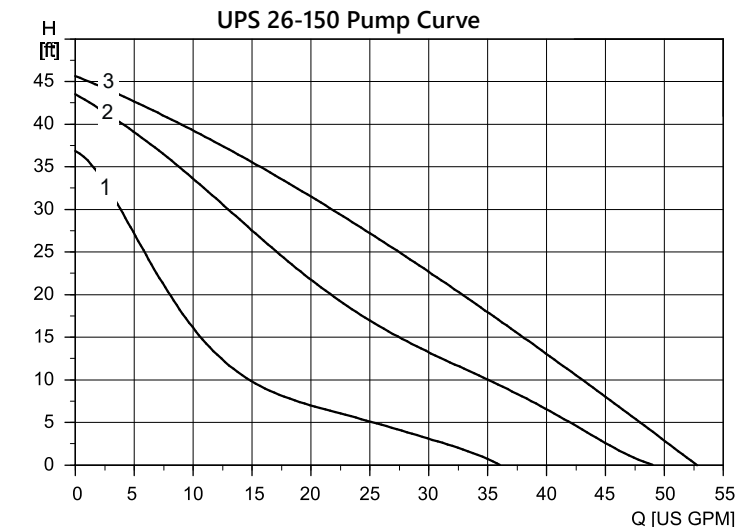


Pump Technical Data

	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 m³/h)	0-53 US gpm (0-12 m³/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	Hp	Capacitor
3	115	1.8	197	1/6	20 µF/180V
2		1.5	179	1/6	
1		1.3	150	1/6	

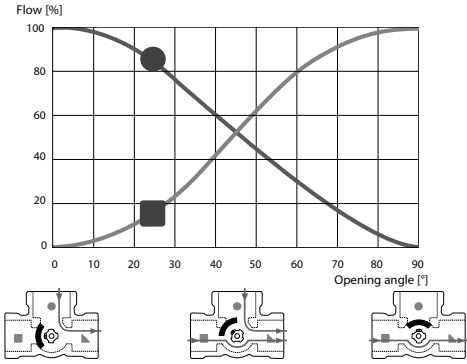


Speed	Volts	Amps	Watts	Hp	Capacitor
3	115	3.5	370	1/6	40 µF/180V
2		3.1	335	1/6	
1		2.5	265	1/6	

Technical Data - 3-way Mixing Valve

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:	-15°F (-10°C)
Max. Operating Pressure:	145 psi (10 bar)
Max. Differential Pressure:	Mixing - 14.5 psi (1 bar) Diverting - 20 psi (2 bar)
Leaking in % of flow*:	Mixing - <0.05% Diverting - <0.02%
Max. Torque:	<44lbf*in (<5Nm)

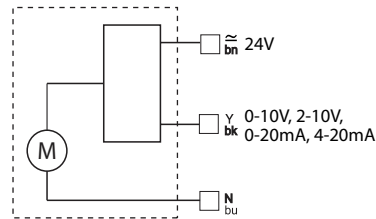
*based on diff. pressure of 14.5 psi (1 bar)



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

Installation

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

Maintenance

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

Related Documents

- Installation, Operation, and Maintenance Manual L63WMIX-654
- Snowmelt Control Submittal SUB30654
- HeatLink Limited Heating Warranty

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