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 panels provide outdoor reset control with a secondary pump, 3-way rotary mixing valve, and 3-Point Floating Mixing Valve Motor.

Qty	Stk. #	Pump
	3WMIX-360	Ferrous, Grundfos UPS26-99FC
	3WMIXHH-360	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	3-Way Mixing Valve w/3-point floating point motor
Temperature Control Range	50-180ºF (10-82ºC)
Power supply	120V(ac)
Piping	1" 304SS Tubing, 1" Brass
Piping connections	1" FNPT
Material - backplate	16 Gauge galvanized steel
Material - enclosure	Powder coated steel

Standards / Listings

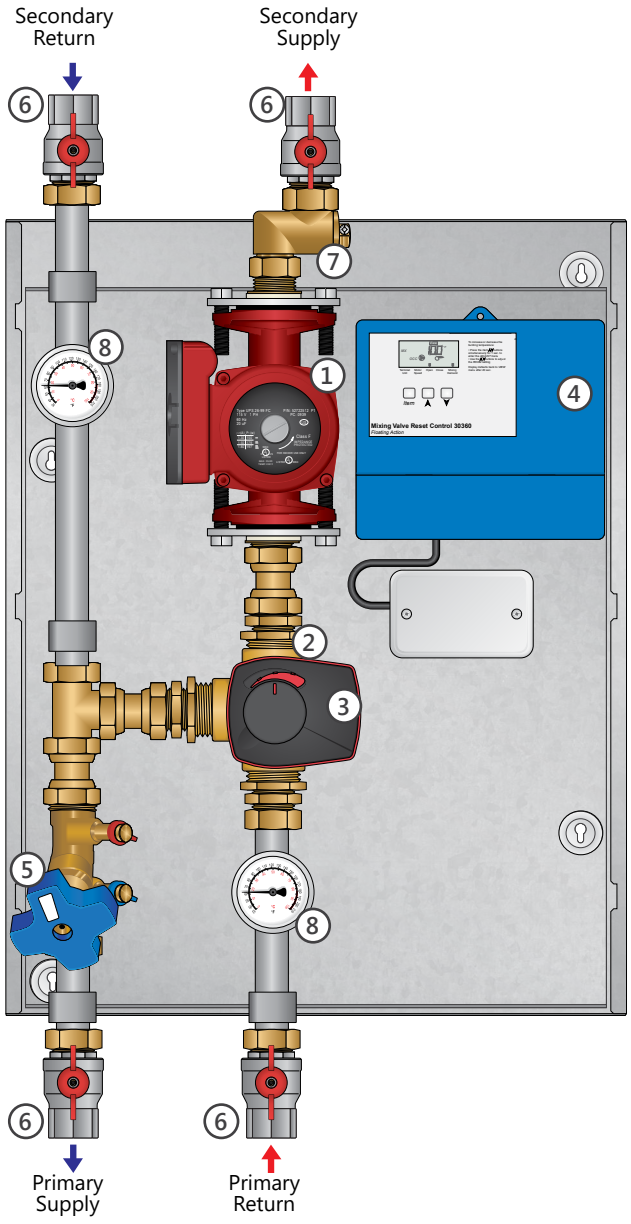
CAN/CSA-C22 No.14, UL508

cETLus

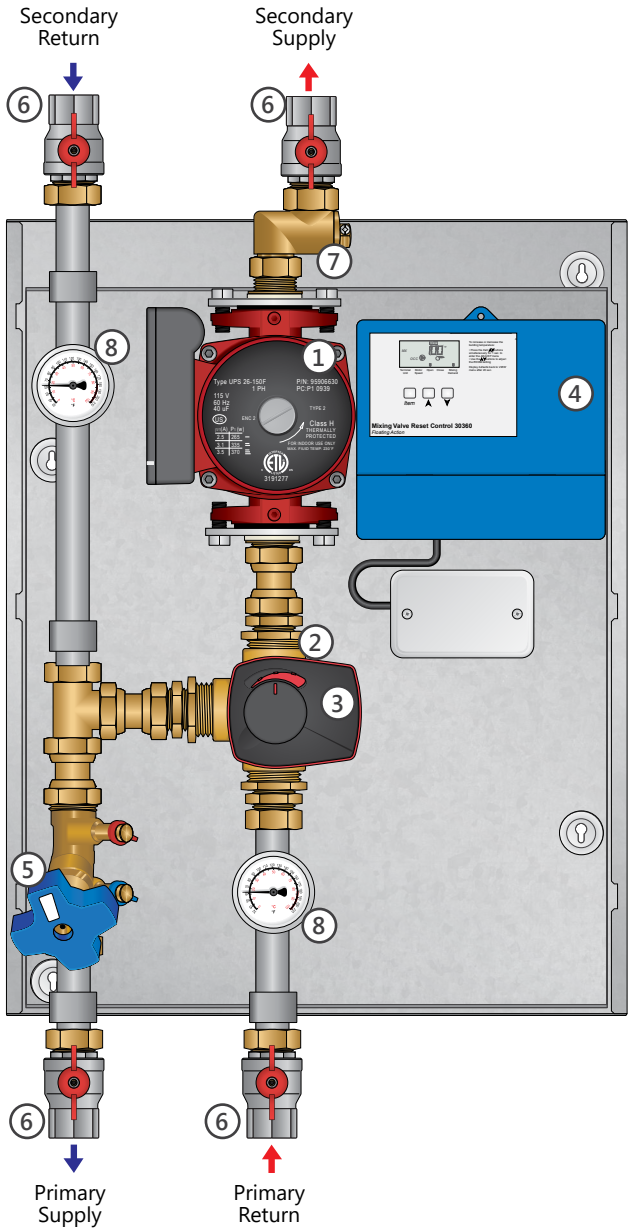
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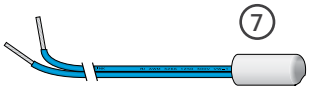
Panel Diagrams

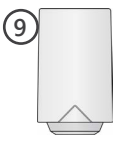
3WMIX-360

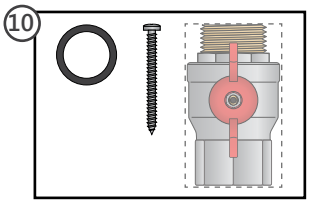


3WMIXHH-360









Panel Dimensions

Enclosure Dimensions

Stk. #	Width	Height	Depth
3WMIX-360	18.75” (mm)	24.0” (mm)	7.75” (mm)
3WMIXHH-360			

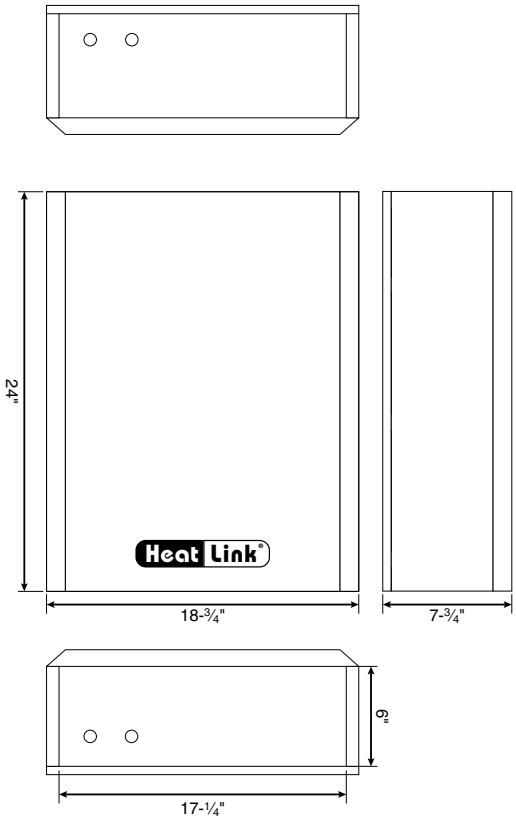
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Panel Components

#	Components	Component Description	Part Numbers	
			3WMIX-360	3WMIXHH-360
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	3-way mixing valve (hidden)	Regulates the temperature in the hydronic system with the help of the electric motor actuator and system controller	63539	
3	Floating point motor	Operates the rotary 3-way valve in conjunction with the system controller	58131	
4	30360 Indoor/Outdoor Mixing Reset Control	The pre-wired system controller regulates the panel operation.	30360	
5	Balancing Valve	Adjusts flow	n/a	
6	Isolation Valves* (x4)	Isolate the panel from the system during fill & purge and maintenance	n/a	
7	Universal Sensors (x2)	Temperature sensor for return fluid, and optional boiler sensor (to be installed in the field)	30071	
8	Thermometer (x2)	Shows system temperature	n/a	
9	Outdoor Sensor	Relays outdoor temperature to the reset control	30070	
10	Accessory pack			
	i 1" nitrile washers (x4)	Washers for isolation valve connections to panel	NTRWSH1	
	ii Mounting screws (x4)	For panel mounting	n/a	
11	Cover (not shown)		n/a	

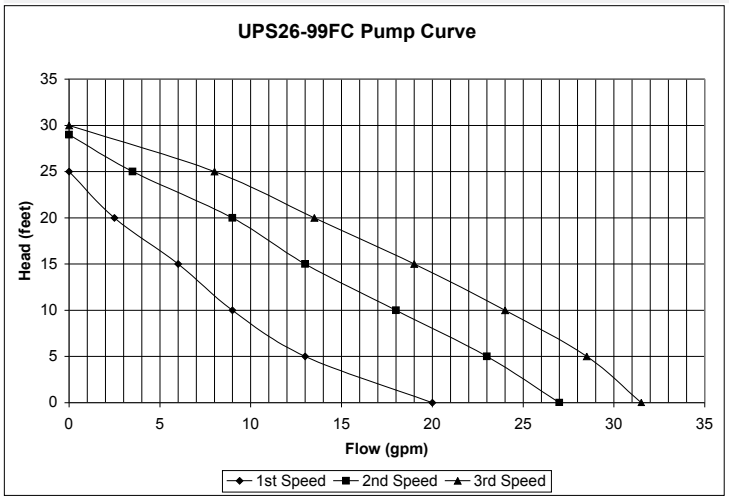
*Packaged in accessory box for shipping.



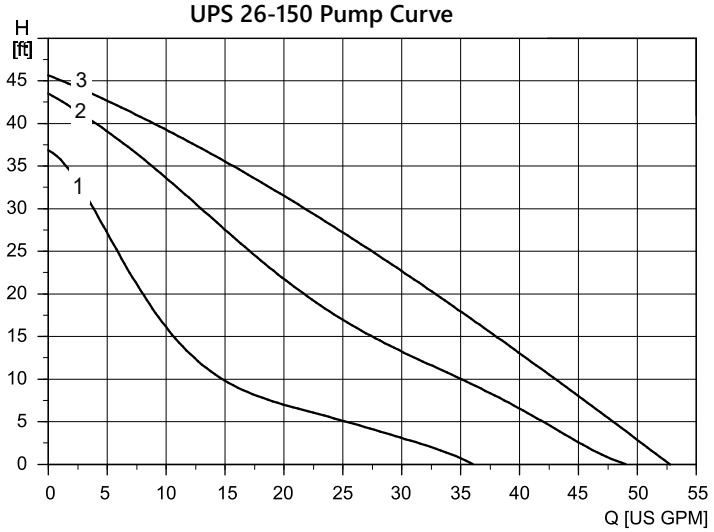
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Pump Technical Data

	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	

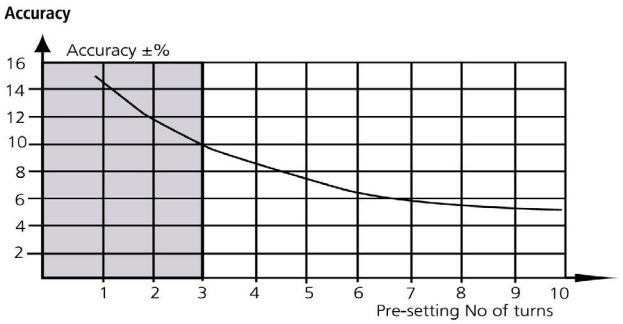
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Balancing Valve Technical Data

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

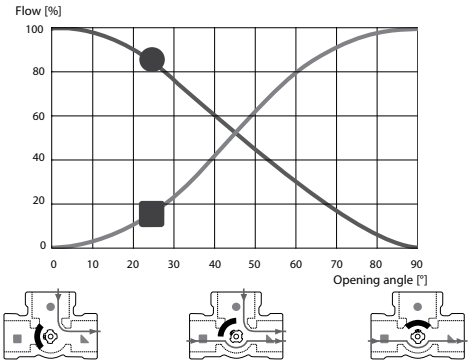


Mixing Valve Technical Data

Technical Data - 3-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:	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)

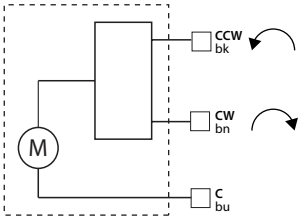
*based on diff. pressure of 14.5 psi (1 bar)



Technical Data - 3-Point Floating Mixing Valve Motor

Ambient Temperature:	23 to 131°F (-5 to 55°C)
Power Supply:	24Vac ± 10%, 50/60 Hz
Enclosure Rating:	NEMA 1, IP41
Protection Class:	II
Torque:	53.1 lbf.in (6 Nm)
Power Consumption:	2 VA
Angle of Movement:	90°
Running Time 90°:	96 sec
Control Signal	3-point SPDT

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

- Operation and Maintenance Manual (L63WMIX-360)
- HeatLink Limited Heating Warranty

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