Job or Customer :	
Location :	
Engineer :	
☐ Complies with Spec ☐ Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

The main application of the HEP Isolation Heat Exchanger Panel is to provide single wall isolation between a DHW tank and a heating system. While other applications are possible, it is important to note that this panel is *not* a temperature control device. The secondary water temperature is wholly dependent on the temperature of the primary supply water. The HEP095P is designed for applications where there is an extremely high flow resistance in the heat source. When the panel receives a call for heat, it activates both primary and secondary pumps. The primary pump is also activated once every 24 hours, for 15 minutes, to ensure that potable water in the piping or heat exchanger is not stagnant.

The HEP000P series features secondary supply/return on the top of the panel (see diagram on page 2).

The panel is pre-wired to work with the FLWSWTCH DHW priority switch (mounted externally). When using the FLWSWTCH priority switch, a flow sensor is installed in the DHW supply to the house downstream from the branch to the HEP panel. When the FLWSWTCH detects water flow, it will turn off the primary pump in the HEP panel, until such time that the DHW flow to the house falls below ~0.5 US gpm.

Qty	Stk. #	Heat Exchanger	Primary Circulator	Secondary Circulator	Weight
	HEP025P	Single-wall brazed plate; 3×8-12	UPS15-58CIL2	UPS15-58CIL2	30 lb (13.6 kg)
	HEP080P	Single-wall brazed plate; 3×8-30	UPS15-58CIL2	UPS15-58CIL2	32.5 lb (14.8 kg)
	HEP095P	Single-wall brazed plate; 3×8-30	UPS26-99BFC	UPS15-58CIL2	46.5 lb (21.1 kg)

Note: When ordering, please include a copy of the completed submittal.

Technical Data

	Specifications
Max ambient temperature	120ºF (49ºC)
Max water temperature	200ºF (93ºC)
Temperature control method	None
Temperature control range	Dependent on heat source temp.
Power supply	110 V(ac)
Auxiliary terminal	Yes, dry contacts, max. load 10A
DHW priority	Optional @ ~0.5 US gpm DHW flow
Piping	¾" 304SS Tubing
Piping connections	¾" and 1" FNPT
Material - backplate	16 Gauge galvanized steel
Material - enclosure	Powder coated steel

Use MIP × PEX ball valves

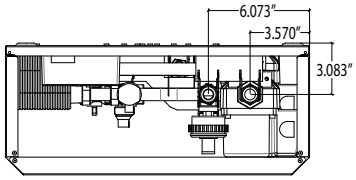
Standards / Listings

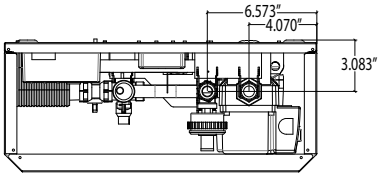
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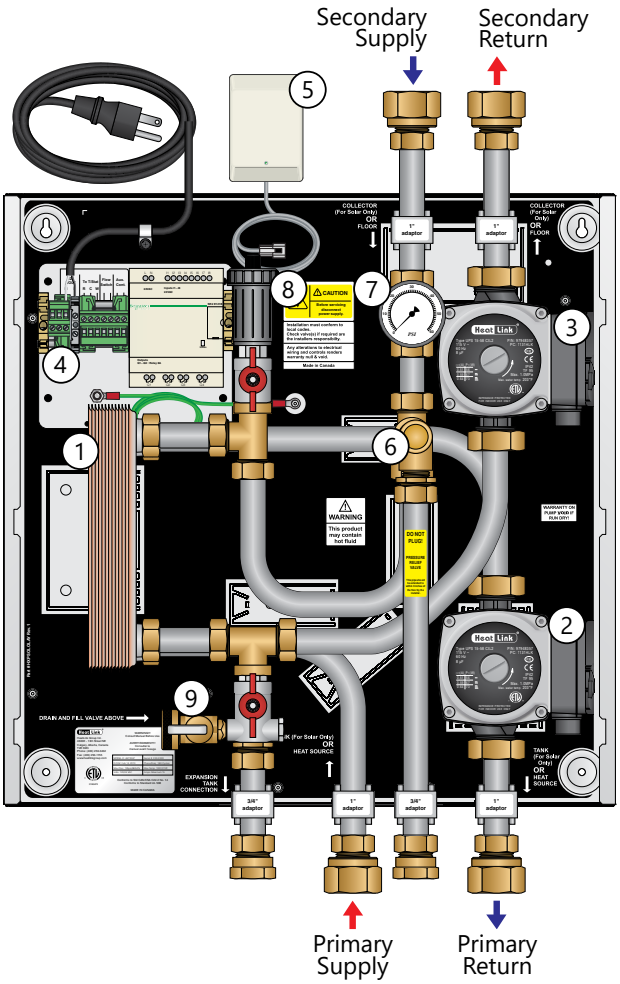
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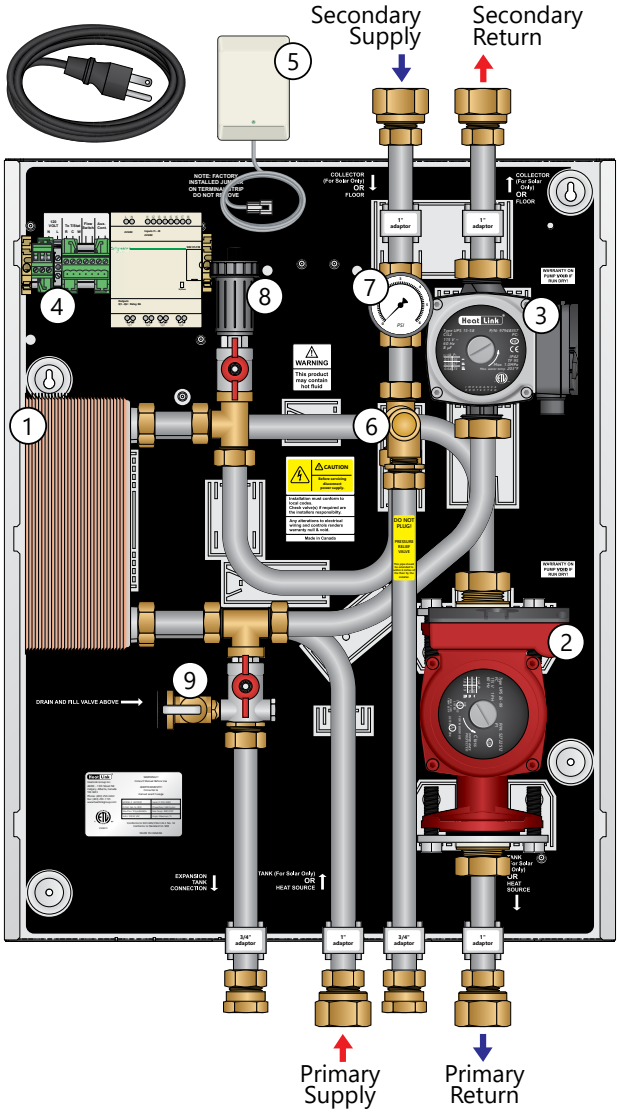
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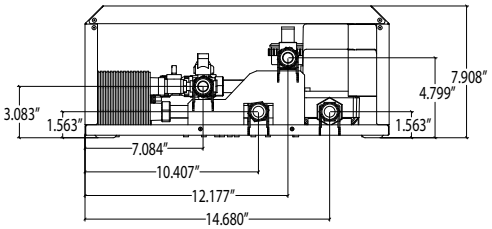
Panel Diagrams

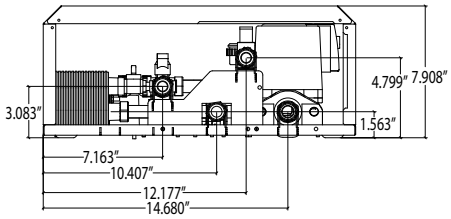


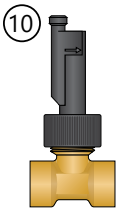












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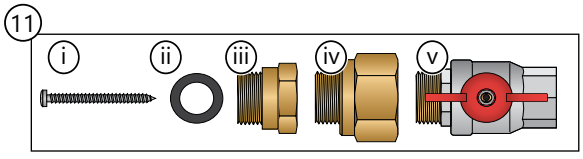
Panel Dimensions

Enclosure Dimensions

Stk. #	Width	Height	Depth
HEP025P HEP080P	18.25" (463mm)	18.268" (464mm)	7.90" (200mm)
HEP095P	18.75" (476mm)	24.0" (609mm)	

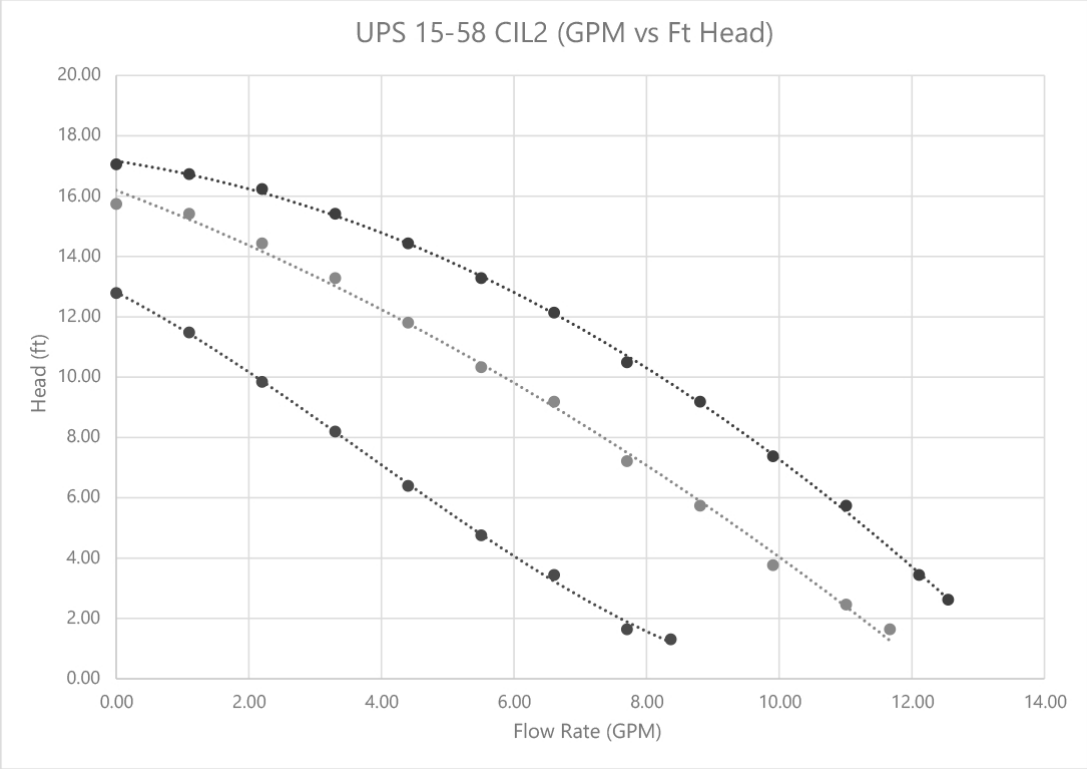
Panel Components

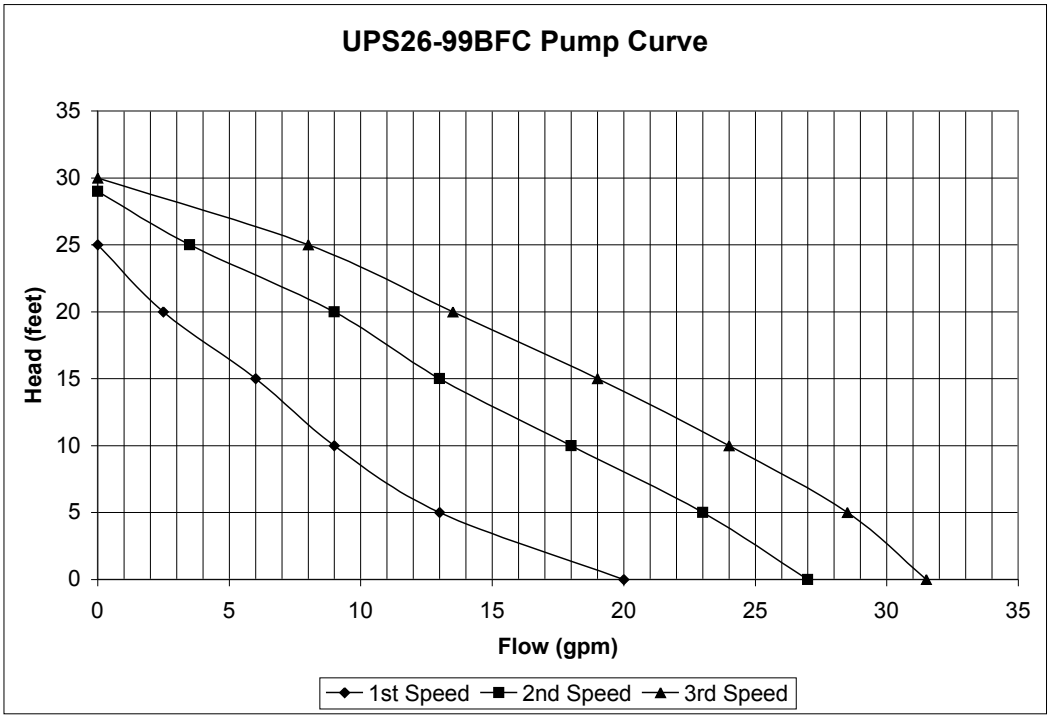
#	Components		Component Description	HeatLink Part Number (Qty.)		
				HEP025P	HEP080P	HEP095P
1	Single wall, brazed-plate heat exchanger		The heat exchanger provides separation of the primary and secondary loops.	HTEX3812	HTEX3830	
2	Primary pump		The primary pump moves the heated fluid from the heat source through the heat exchanger when there is a call for heat from the thermostat. Factory set to 3rd speed. See pump curves on page 4.	PUMP1558		**PUMP2699**
3	Secondary pump		The secondary pump moves the heated fluid through the hydronic system when there is a call for heat from the thermostat. Factory set to 3rd speed. See pump curves on page 4.	PUMP1558		
4	Terninal block		Provides easy access wiring for thermostats, flow switch (opt.), and aux. contacts.	n/a		
5	24V(ac) 20Va plug-in transformer		Provides power to the panel electronics.	PLINT40VA		
6	½" Safety relief valve			n/a		
7	Pressure gauge		The rear connection pressure gauge reads the secondary loop pressure. May not be exactly as shown. Range: 0-60psi	PG14NPT260		
8	Automatic air vent		Automatic air vent purges air trapped in the secondary loop. May not be exactly as shown.	79932		
9	Drain and fill valve		Access point for filling and draining the panel.	n/a		
10	Optional flow switch		The electronic flow indicator provides DHW priority when the DHW flow rate reaches a factor pre-set level (approx. 0.5 US gpm). Must be piped in downstream of panel.	FLWSWTCH		
11	Accessory pack		Panel installation accessories.	ACCHEP000P		
	i	Mounting screw	Panel mounting screws.	(×4)		
	ii	¾" Nitrile washer	Washers for installation of adapters, plus (4) spares.	NTRWSH34 (×10)		
	iii	¾" MBSP × ¾" FNPT adapters	Adapters for expansion tank, and pressure relief piping (shown installed on panel diagram).	(×2)		
	iv	¾" MBSP × 1" FNPT adapters	Adapters for system piping (shown installed on panel diagram).	(×4)		
	v	¾" MBSP × ¾" FNPT ball valves	Ball valves for panel isolation, & system hookup.	(×4)		



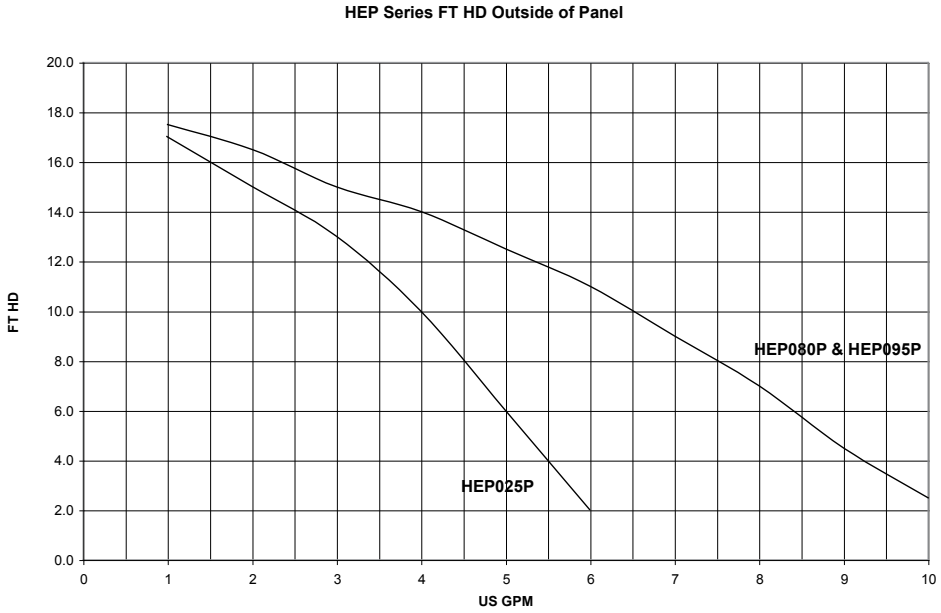
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Pump Curves





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HEP Panel Performance at Different Supply Water Temperatures

	HEP025P					HEP080P				
Supply Temperature	140	150	160	170	180	140	150	160	170	180
BTUH	39,000	55,000	66,000	77,000	88,000	80,000	102,000	125,000	149,000	172,000
GPM Primary	4	4.5	4.5	4.5	4.5	8	8	8	8	8
GPM Secondary	4	5	5	5	5	8	8	8	8	8
Htg. Sys. Available ft.hd.	10	9	9	9	9	8	8	8	8	8
Htg System Temp Differential °F	18	22	26	31	35	20	25	31	37	43

Note: Performance data is based on water as the primary and secondary heating fluid.

HEP Panel Performance at Different Supply Water Temperatures

	HEP095P				
Supply Temperature	140	150	160	170	180
BTUH	96,000	115,000	140,000	165,000	190,000
GPM Primary	13	13	13	13	13
GPM Secondary	8	8	8	8	8
Htg. Sys. Available ft.hd.	8	8	8	8	8
Htg System Temp Differential °F	24	29	35	41	48

Note: Performance data is based on water as the primary and secondary heating fluid.

Installation

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

Maintenance

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

Related Documents

- HEP000P Installation, Operation, and Maintenance Manual Instructions (L6HEP000P)
- FLWSWTCH Flow Switch for DHW Priority Submittal (SUBFLWSWTCH)
- HeatLink Limited Heating Warranty

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