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 timer activates the primary pump once every 24 hours, for 15 minutes, to ensure that potable water in the piping or heat exchanger is not stagnant.

The HEP-RT series features primary supply/return on the top of the panel (see diagram on page 2).

The panel is pre-wired to work with the optional 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
	HEP025RT	Single-wall brazed plate; 3×8-12	UPS15-58CIL2	UPS15-58CIL2	30 lb (13.6 kg)
	HEP5080RT	Single-wall brazed plate; 3×8-30	UPS15-58CIL2	UPS15-58CIL2	32 lb (14.5 kg)

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

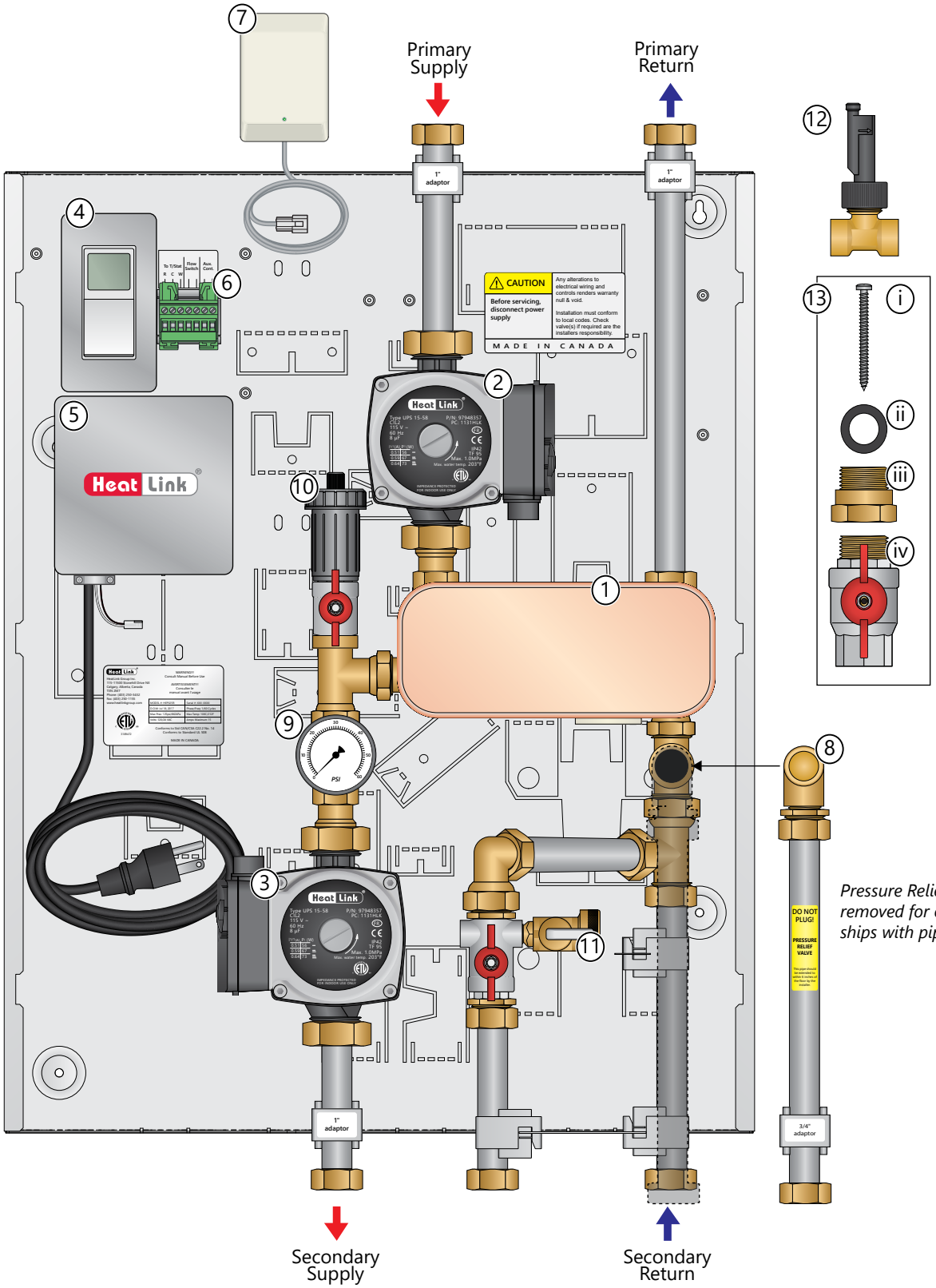
Technical Data

	Specifications
Max ambient temperature	120ºF (49ºC)
Max operating temperature	200ºF (93ºC)
Temperature control method	none
Temperature control range	Dependant on heat source temperature
Power supply	120/24 V(ac)
Primary Pump	Grundfos UPS15-58
Secondary pump	
Auxiliary terminal	Yes
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

Use MIP × PEX ball valves

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

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Pressure Relief Piping shown removed for clarity only - panel ships with piping installed.

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Enclosure Dimensions

Stk. #	Width	Height	Depth
HEP025RT HEP080RT	18.75” (476mm)	24.0” (610mm)	8.00” (203mm)

#	Components	Component Description	Part Number (Qty.)	
			HEP025RT	HEP080RT
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	
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	Timer	Exercises the system 15 minutes every 24 hours to keep water from getting stagnant.	n/a	
5	Electrical box	Houses relays and wiring.	n/a	
6	Terninal block	Provides easy access wiring for thermostats, flow switch (opt.), and aux. contacts.	n/a	
7	24V(ac) 20Va plug-in transformer	Provides power to the panel electronics.	PLINT40VA	
8	½" Safety relief valve		n/a	
9	Pressure gauge	The rear connection pressure gauge reads the secondary loop pressure. May not be exactly as shown. Range: 0-60psi	PG14NPT260	
10	Automatic air vent	Automatic air vent purges air trapped in the secondary loop. May not be exactly as shown.	79932	
11	Drain and fill valve	Access point for filling and draining the panel.	n/a	
12	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	
13	Accessory pack	Panel installation accessories.	ACCHEP025R	
	i Mounting screw	Panel mounting screws.	(×4)	

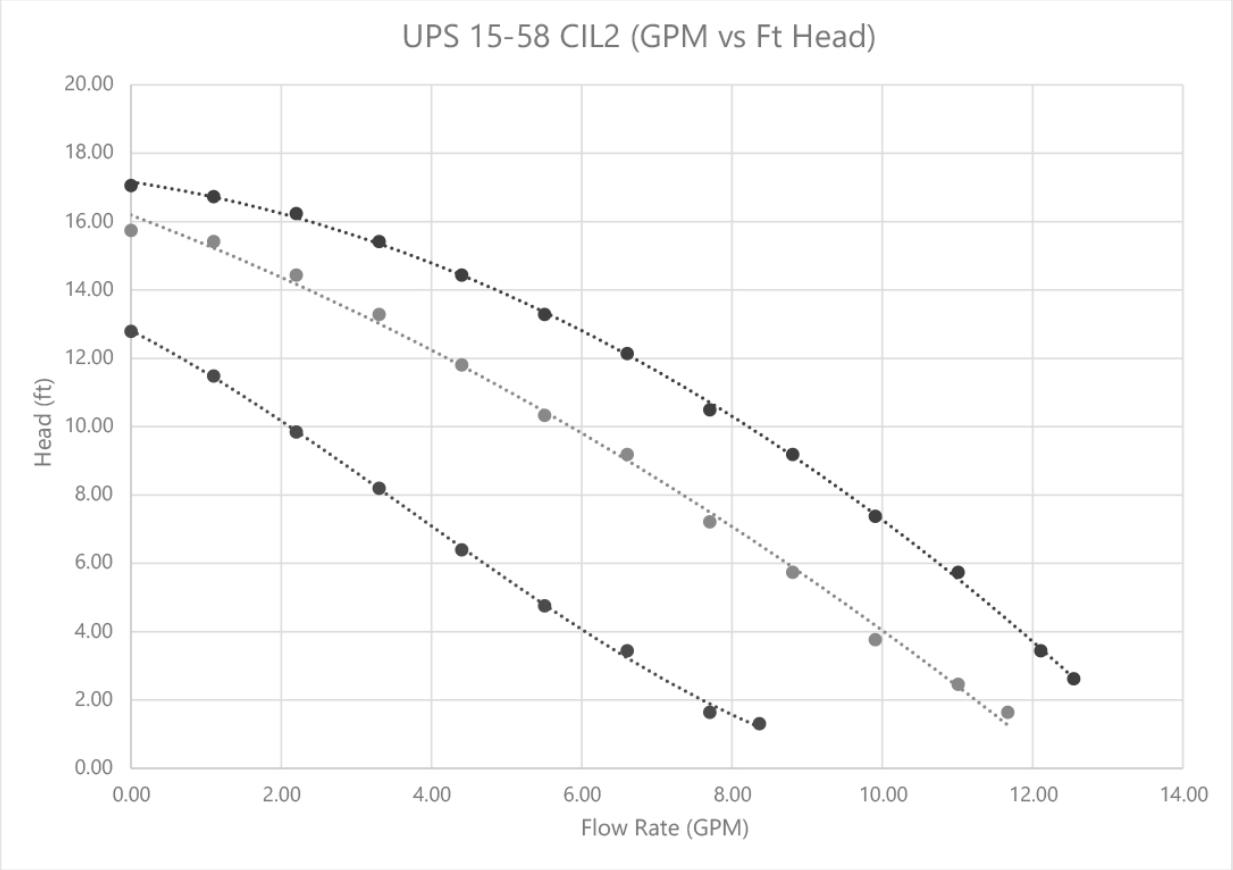
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HEP Panel Performance at Different Supply Water Temperatures

	HEP025RT					HEP080RT				
Supply Temperature (°F)	**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.



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

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

Related Documents
- HEP025RT Installation, Operation, and Maintenance Manual Instructions (L6HEP000RT)
- FLWSWTCH Flow Switch for DHW Priority Submittal (SUBFLWSWTCH)
- HeatLink Limited Heating Warranty

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