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 Pump	Secondary Pumps	Weight
	HEP025RTDP	Single-wall brazed plate; 3×8-12	UPS15-58CIL2	UPS15-58CIL2	30 lb (13.6 kg)
	HEP080RTDP	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

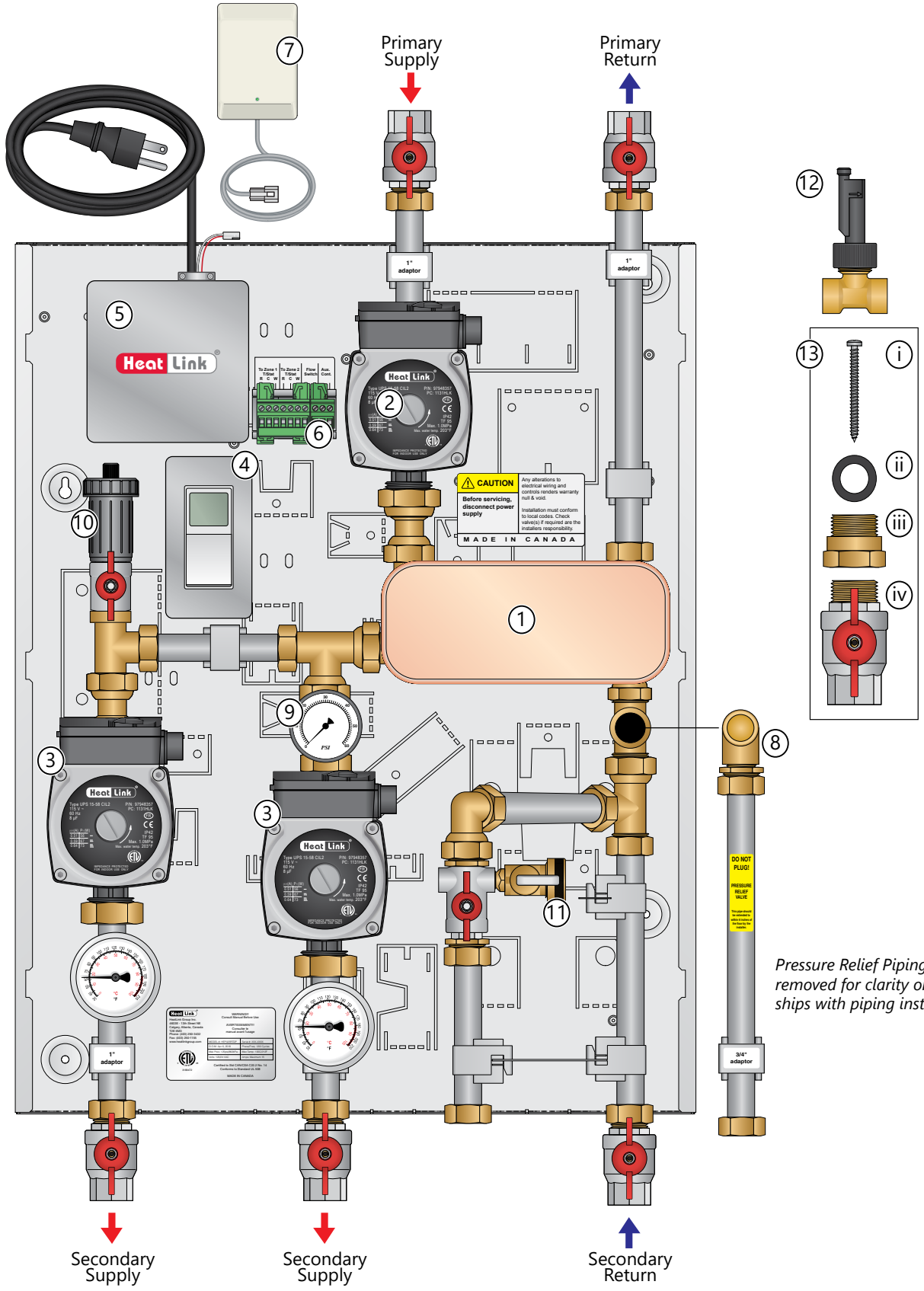
	Specifications
Max ambient temperature	120ºF (49ºC)
Max operating temperature	200ºF (93ºC)
Temperature control method	none
Temperature control range	Dependant on heat source temperature
Power supply	120/24 V(ac)
Primary Pump	Grundfos UPS15-58
Secondary pumps	
Auxiliary terminal	Yes
DHW priority	Optional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



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

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Enclosure Dimensions

Stk. #	Width	Height	Depth
HEP025RTDP HEP080RTDP	18.75” (476mm)	24.0” (610mm)	8.00” (203mm)

#	Components		Component Description	Part Number (Qty.)	
				HEP025RTDP	HEP080RTDP
1	Single wall, brazed-plate heat exchanger		Provides separation of the primary and secondary loops.	HTEX3812 (3×8-12)	HTEX3830 (3×8-30)
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 pumps		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.	PLINTR40VA	
8	½" Safety relief valve			n/a	
9	Pressure gauge		Reads the secondary loop pressure. May not be exactly as shown. Range: 0-60psi	PG14NPT260	
10	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)	
	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 × ¾" FNPT ball valves	Ball valves for panel isolation, & system hookup (shown installed on panel diagram).	(×4)	

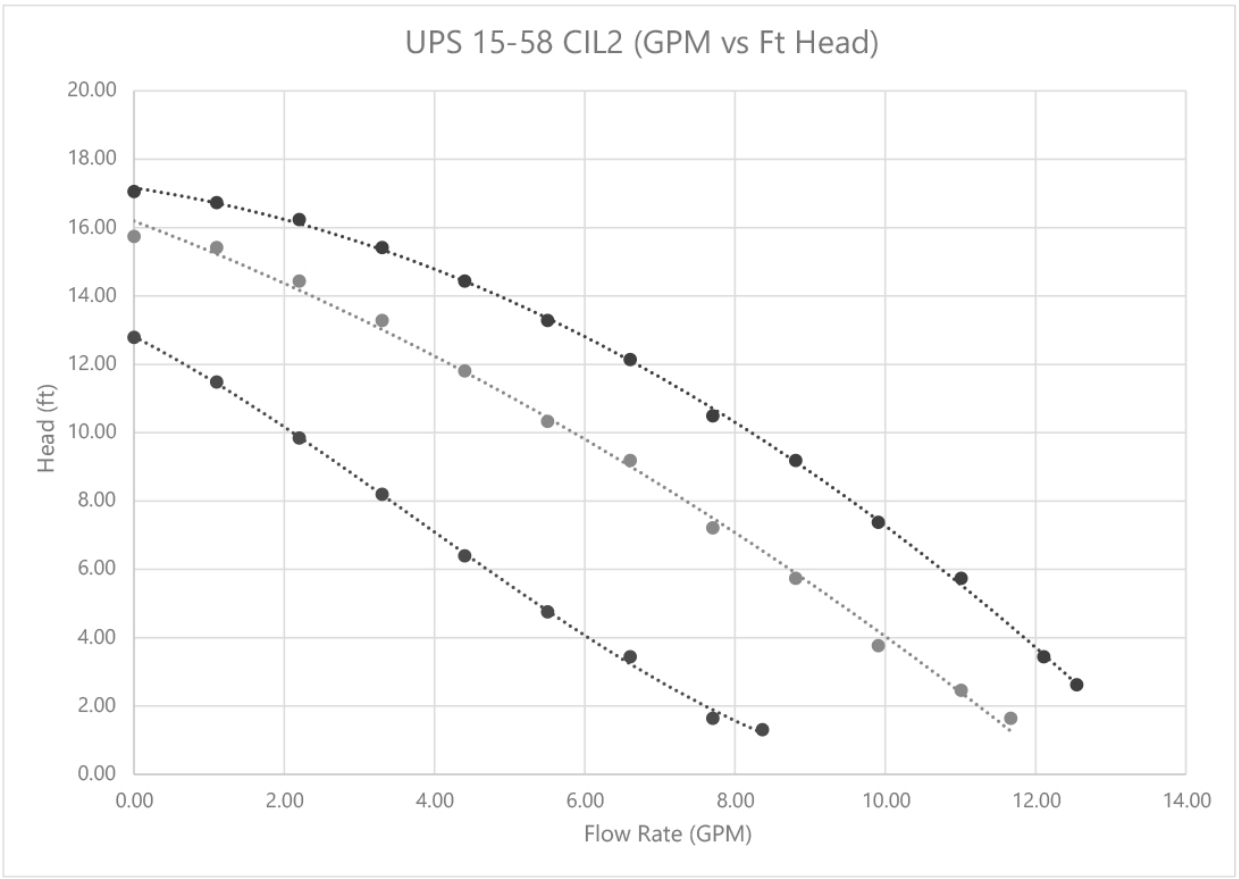
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HEP Panel Performance at Different Supply Water Temperatures

Supply Temperature	HEP025RTDP					H8EP080RTDP				
	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
- HEP0xxRTDP Installation, Operation, and Maintenance Manual Instructions (L6HEP0xxRTDP)
- FLWSWTCH Flow Switch for DHW Priority Submittal (SUBFLWSWTCH)
- HeatLink Limited Heating Warranty

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