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 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)

Technical Data

	Specifications	Model Number HEP025RT
Max ambient temperature	120ºF (49ºC)	•
Max operating temperature	200ºF (93ºC)	•
Temperature control method	none	n/a
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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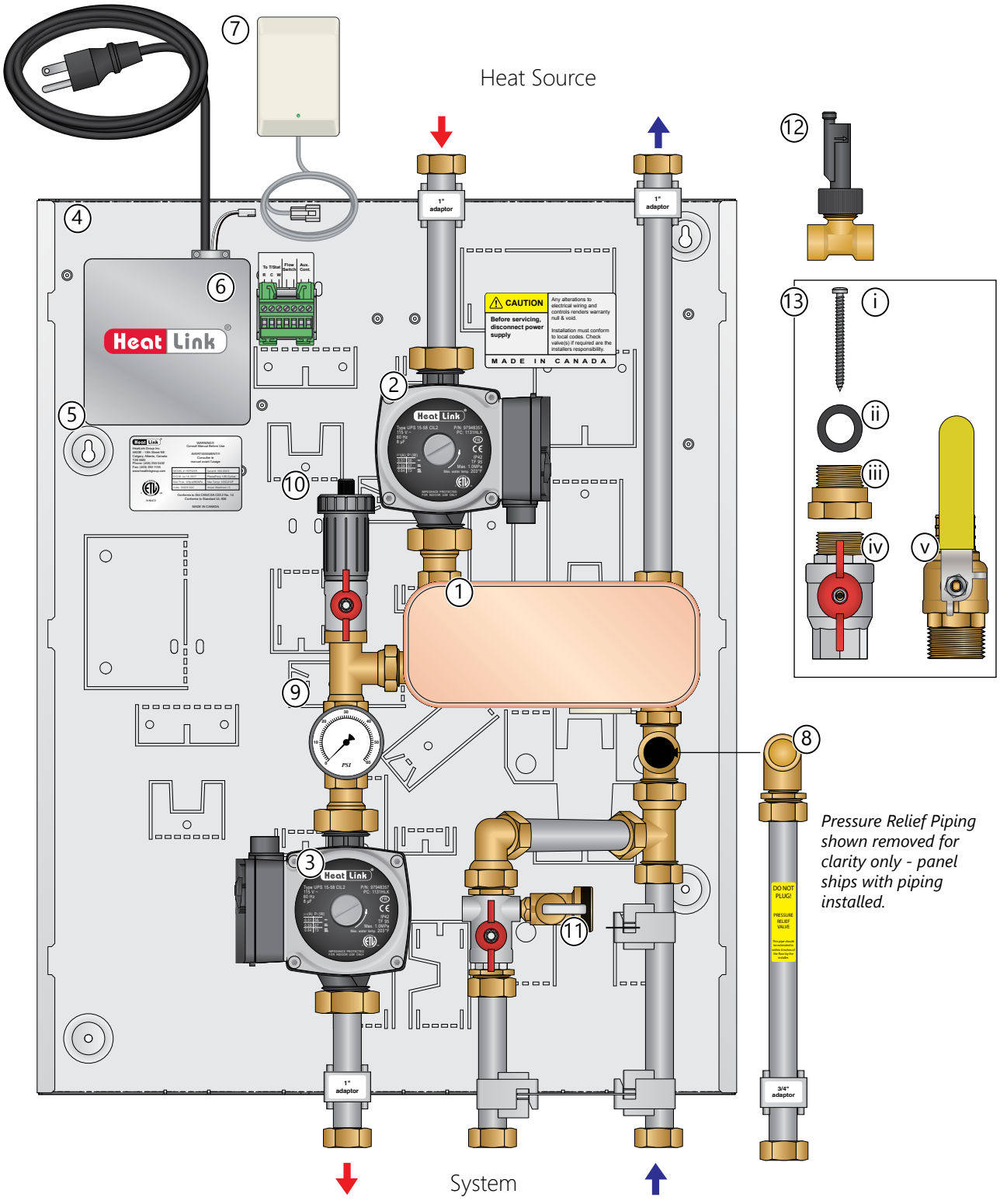

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Enclosure Dimensions

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

#	Components		Component Description	Part Number (Qty.) HEP025R
1	Single wall, brazed-plate heat exchanger		The heat exchanger provides separation of the primary and secondary loops.	HTEX3812 (3×8-12)
2	Primary pump		The circulator 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 below.	PUMP1558
3	Secondary pump			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) 40Va 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)
	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.	(×2)
	iv	¾" MBSP × 1" FNPT ball valves	Ball valves for panel isolation, & system hookup.	(×4)
	v	3/4" MIP × PEX full port ball valve	Optional - replaces threaded ball valve.	(×4)

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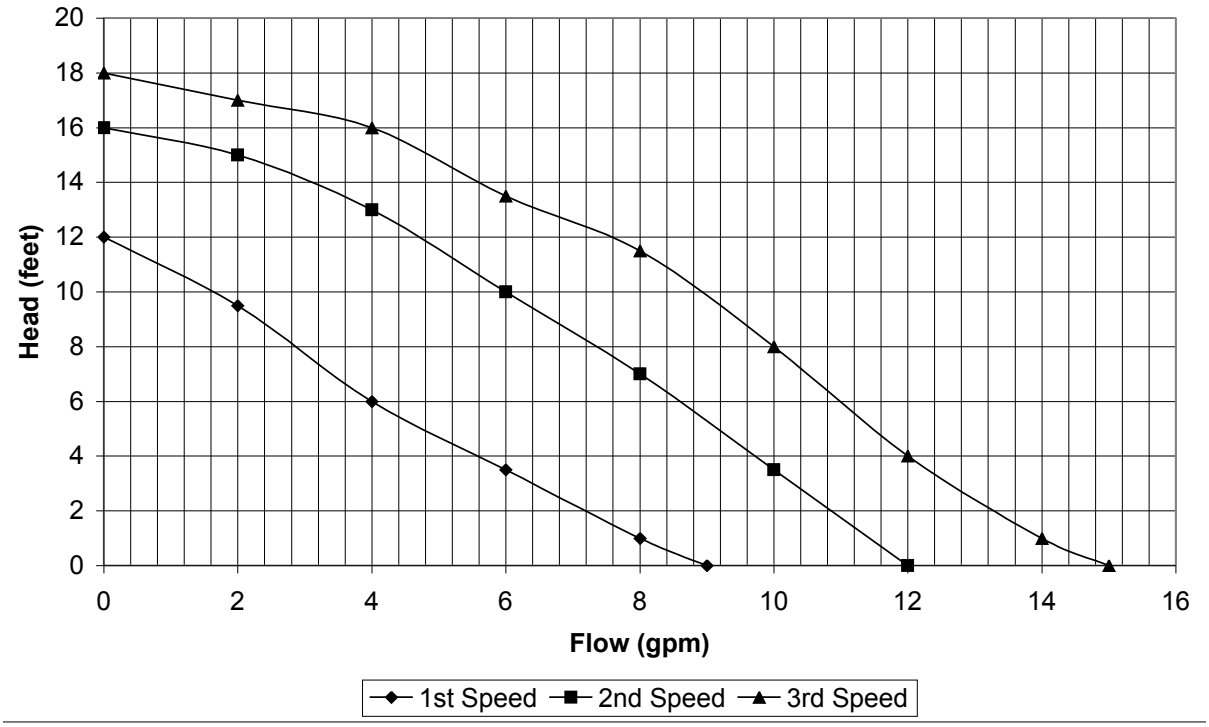
HEP Panel Performance at Different Supply Water Temperatures

Supply Temperature	HEP025RT				
	140	150	160	170	180
BTUH	39,000	55,000	66,000	77,000	88,000
GPM Primary	4	4.5	4.5	4.5	4.5
GPM Secondary	4	5	5	5	5
Htg. Sys. Available ft.hd.	10	9	9	9	9
Htg System Temp Differential °F	18	22	26	31	35

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

UPS15-58CIL2 Pump Curve



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 (L6HEP025RT)
- FLWSWTCH Flow Switch for DHW Priority Submittal (SUBFLWSWTCH)
- HeatLink Limited Heating Warranty

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