

Job or Customer :	
Location :	
Engineer :	
<input type="checkbox"/> Complies with Spec <input type="checkbox"/> 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 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.

Technical Data

Max Ambient Temperature:..... 120°F (49°C)
 Max Water Temperature: 200°F (93°C)
 Temperature Control Method:..... None
 Temperature Control Range: Dependent on heat source temperature
 Power Supply: 110 V(ac)
 Auxiliary Terminal: Yes
 DHW Priority:..... Optional @ ~0.5 US gpm DHW flow
 Piping:..... ¾" 304SS Tubing
 Piping Connections:..... 1" FNPT, ¾" FNPT
 Material - Backplate:..... Galvanized Steel
 Material - Enclosure:..... Powder Coated Steel

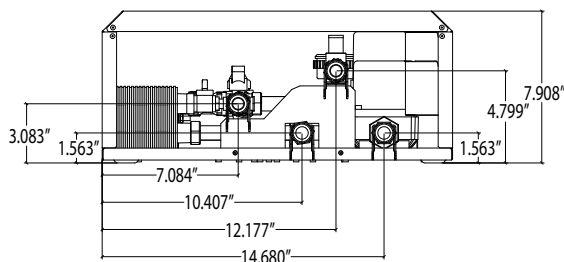
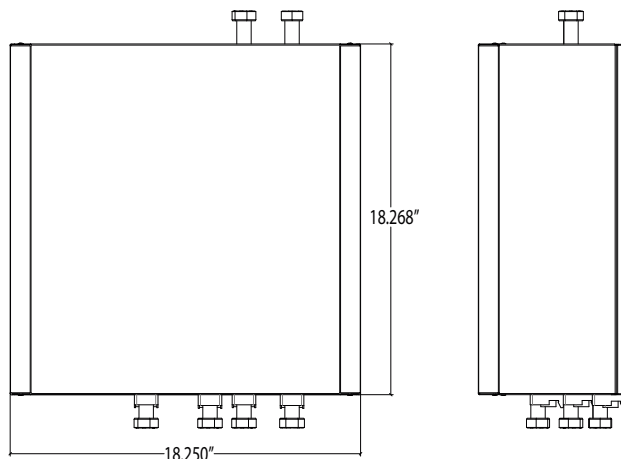
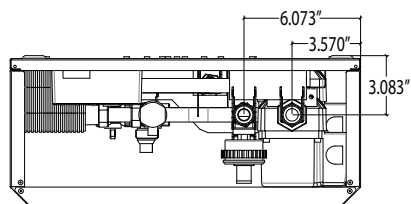
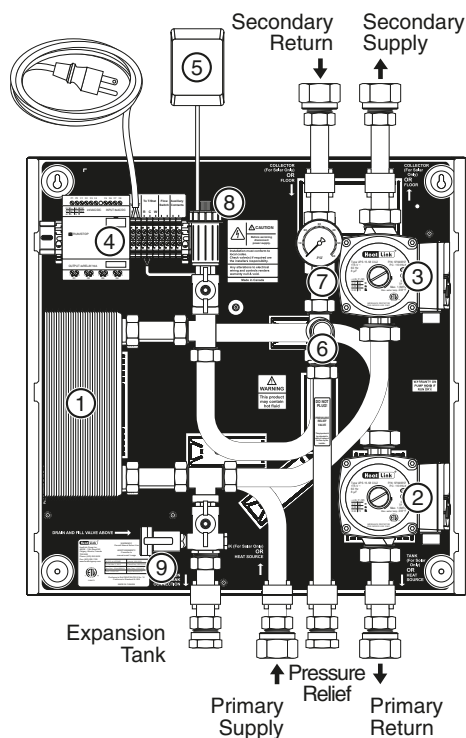
Standards / Listings

CAN/CSA-C22 No.14, UL508
 cETLus

Qty	Stk. #	Heat Exchanger	Primary Circulator	Secondary Circulator	Weight
	HEP025P	Single-wall brazed plate; 3x8-12	UPS15-58RU	UPS15-58RU	30 lb (13.6 kg)
	HEP080P	Single-wall brazed plate; 3x8-30	UPS15-58RU	UPS15-58RU	32.5 lb (14.8 kg)
	HEP095P	Single-wall brazed plate; 3x8-30	UPS26-99BFC	UPS15-58RU	46.5 lb (21.1 kg)

Panel Components - HEP025P & HEP080P

- ① Braze Plate Heat Exchanger
- ② Primary Pump
(UPS 15-58RU Composite)
- ③ Secondary Pump
(UPS 15-58RU Composite)
- ④ Programmable Logic Control
 - 24hr Timer for Potable Applications
- ⑤ 24V(ac) 20VA Plug-in Transformer
- ⑥ ½" Safety Relief Valve
- ⑦ Pressure Gauge
- ⑧ Automatic Air Vent
- ⑨ Drain and Fill Valve



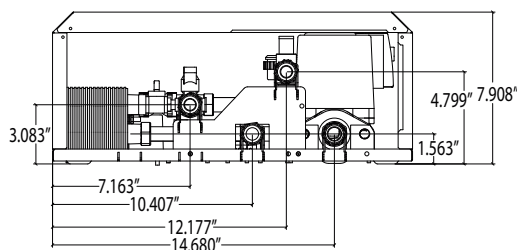
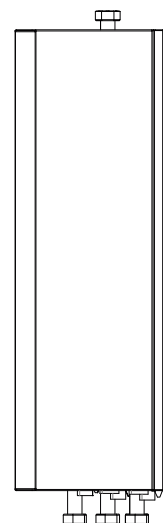
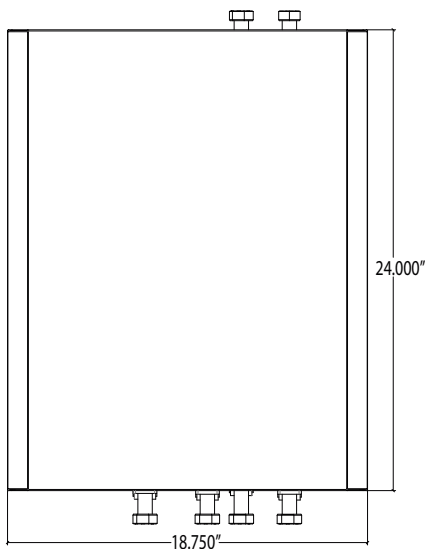
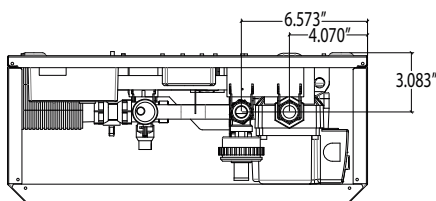
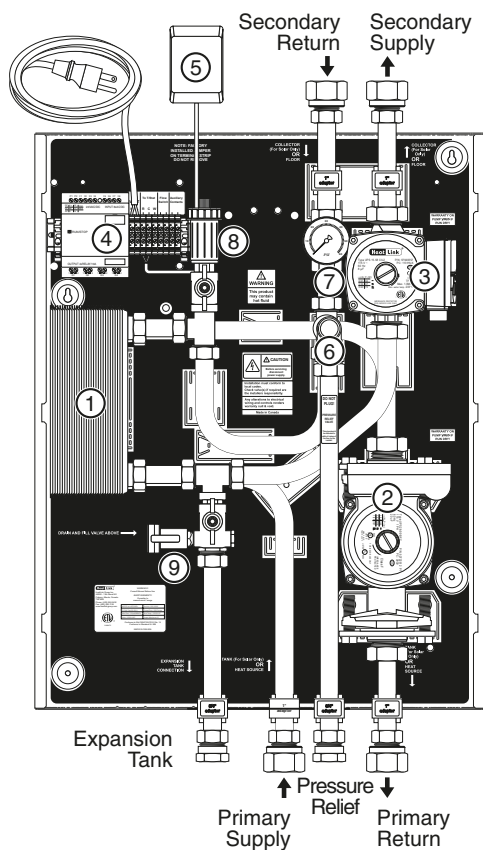
HEP Panel Performance at Different Supply Water Temperatures

Supply Temperature	HEP025P					HEP080P				
	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.

Panel Components - HEP095P

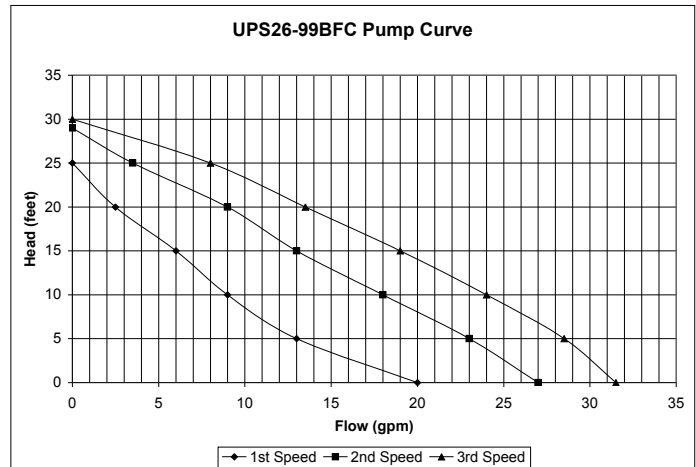
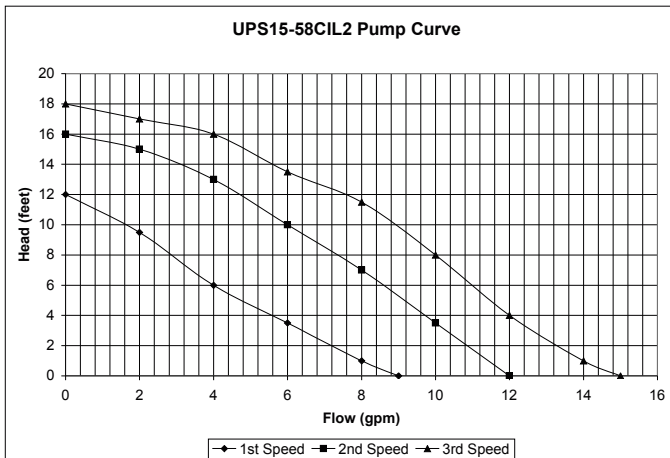
- ① Brazen Plate Heat Exchanger
- ② Primary Pump
(UPS 26-99BFC Non-ferrous)
- ③ Secondary Pump
(UPS 15-58RU Composite)
- ④ Programmable Logic Control
 - 24hr Timer for Potable Applications
- ⑤ 24V(ac) 20VA Plug-in Transformer
- ⑥ ½" Safety Relief Valve
- ⑦ Pressure Gauge
- ⑧ Automatic Air Vent
- ⑨ Drain and Fill Valve



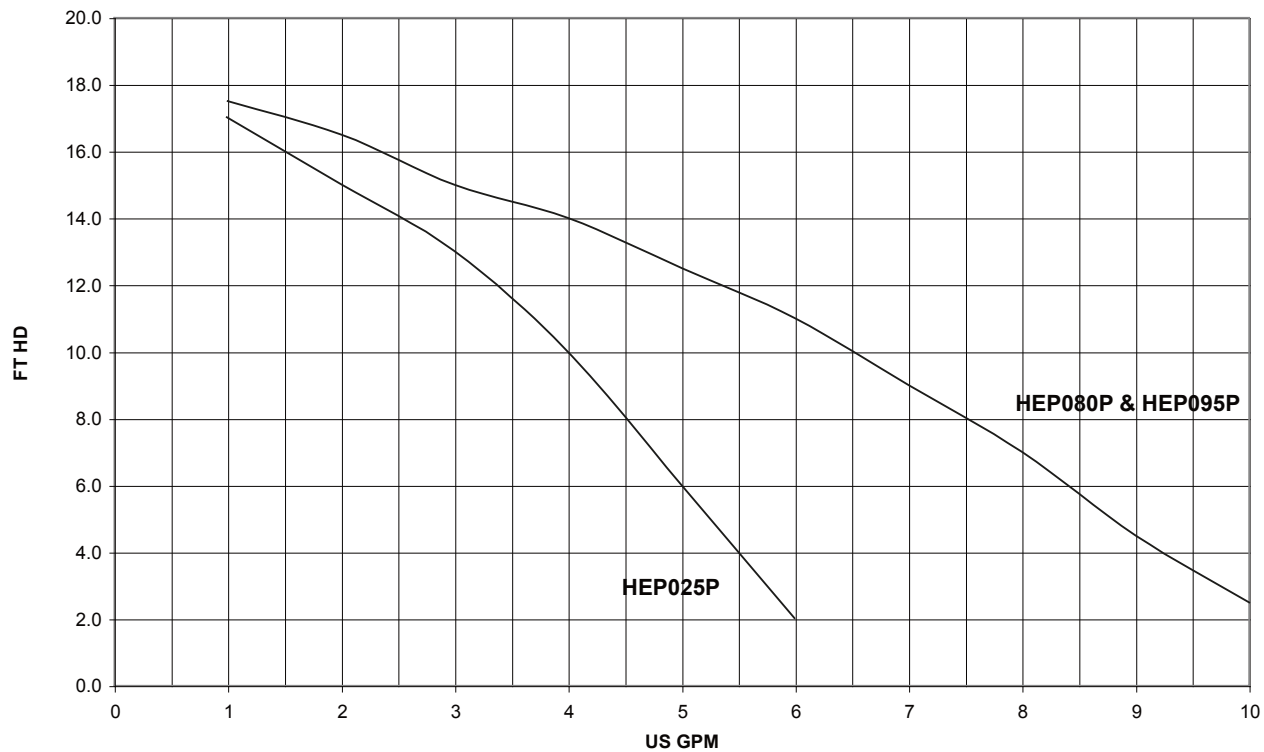
HEP Panel Performance at Different Supply Water Temperatures

Supply Temperature	HEP095P				
	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.



HEP Series FT HD Outside of Panel



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