

| | |
|---|---------|
| 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 Electric Boiler Panel includes: a 240V electric boiler (with electrical box for hardwiring the connection), automatic air vent, pressure relief valve, pump, expansion tank connection, electrical box with 6' cord for 120V input (for pump operation), and 24Vac transformer (for StatLink operation).

Ensure that both power supplies (240V for the boiler & 120V for the pump & electronics) are wired to the panel correctly for proper panel operation.

The ELBP's primary application is for heating small areas where quick Plug & Play installation is needed, or alternative fuel sources aren't available.

Technical Data

| Specifications | Stock Number | | | Qty | Stk. # | Boiler |
|------------------------------|---------------------------|------------|------------|------------|--------|----------|
| | ELBP18 | ELBP30 | ELBP50 | | | |
| Pump power supply | 110-120V | • | • | • | ELBP18 | HA008240 |
| Electric boiler power supply | 210-240V | • | • | • | ELBP30 | HA011240 |
| Maximum output | (based on 220V) | 18,000 BTU | 30,000 BTU | 50,000 BTU | ELBP50 | HA018240 |
| Max ambient temperature | 120°F (49°C) | • | • | • | | |
| Primary Pump | Grundfos UPS15-58 | • | • | • | | |
| Auxiliary terminal | Yes | • | • | • | | |
| Piping | ¾" 304SS Tubing | • | • | • | | |
| Piping connections | ¾" and 1" FNPT | • | • | • | | |
| Material - backplate | 16 Gauge galvanized steel | • | • | • | | |
| Material - enclosure | Powder coated steel | • | • | • | | |

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

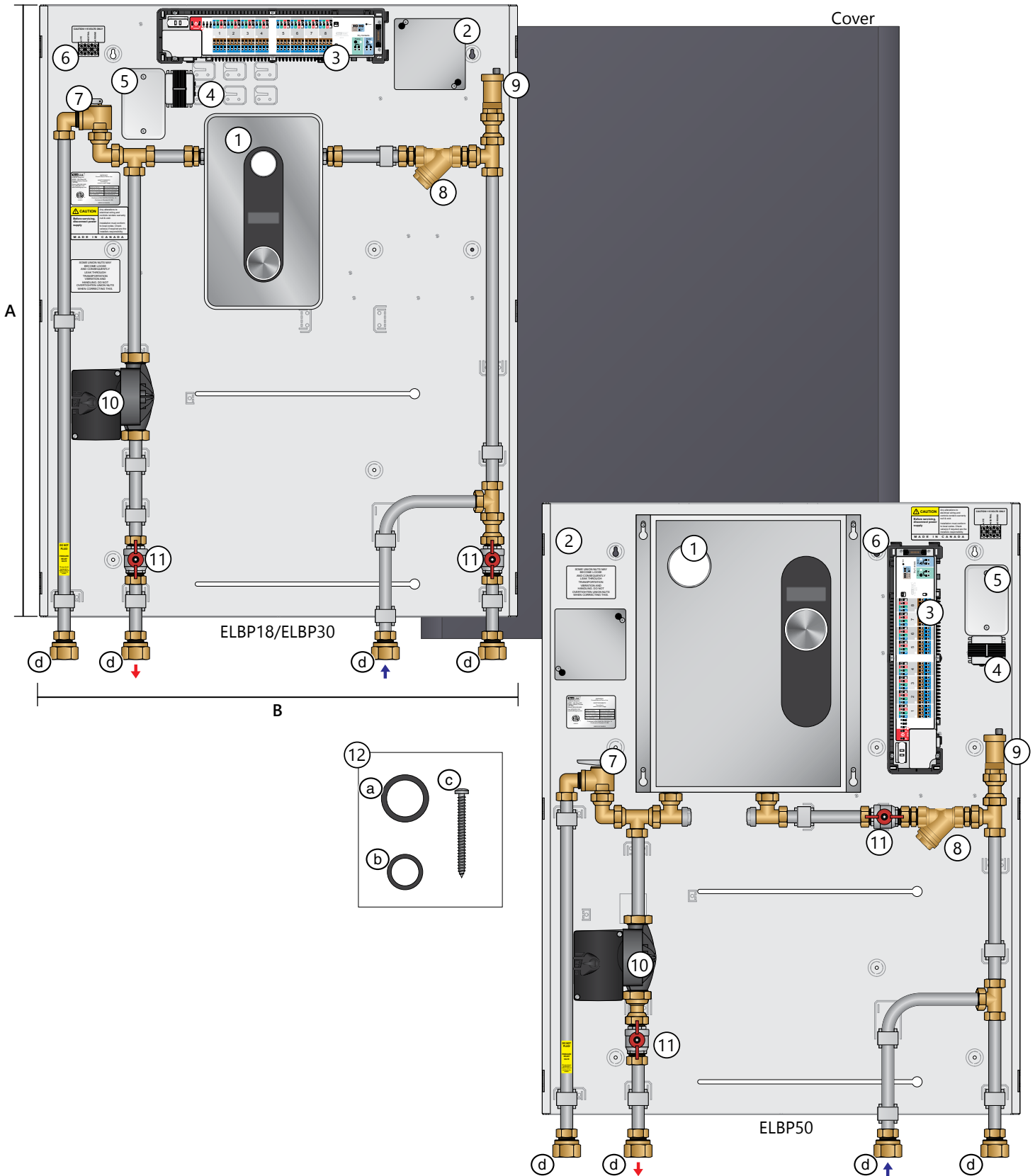
Boiler Specs

| | HA008240 | HA011240 | HA018240 |
|---------------------------|----------------------------|-------------------|-------------------|
| Number of elements | 1 | 2 | 2 |
| Voltage | 240Vac | 240Vac 50/60Hz | 240Vac 50/60Hz |
| Max kW | 8 | 11 | 18 |
| AMPS | 33(1x40)A | 46 (1x50)A | 75 (2x40)A |
| Wire size | 8 AWG | 6 AWG | 8 AWG |
| Minimum PSI | | 25 PSI | |
| Maximum PSI | | 150 PSI | |
| Minimum flow rate (GPM) | 0.3 GPM | 0.3 GPM | 0.3 GPM |
| Maximum flow rate (GPM) | 4.8 GPM | 4.8 GPM | 7.0 GPM |
| Temperature control range | 80°F - 140°F (26°C - 60°C) | | |

Standards / Listings

CAN/CSA-C22 No.14, UL508
cETLus

Panel Diagrams



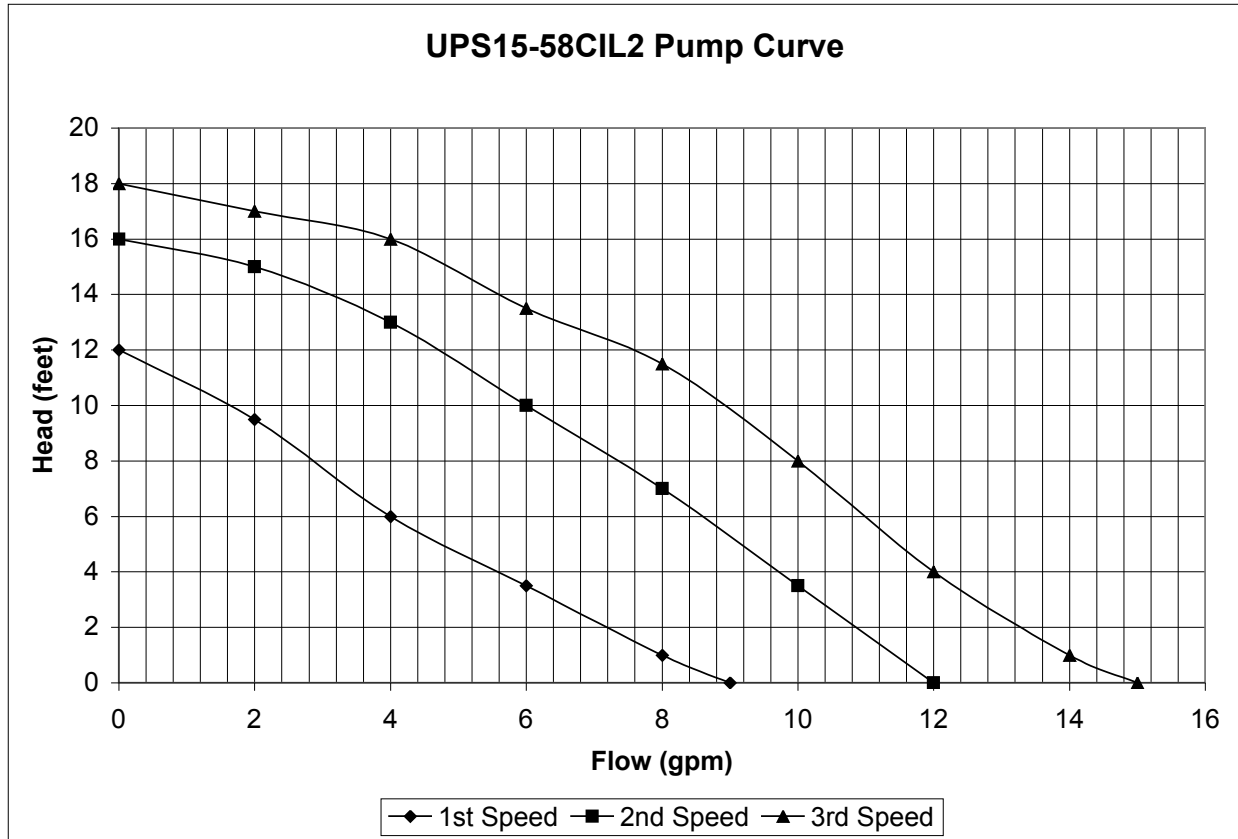
Panel Dimensions

| Stk. # | Enclosure Dimensions | | |
|--------|----------------------|------|-------|
| | A | B | Depth |
| ELBP18 | | | |
| ELBP30 | 37½" | 29¼" | 4¾" |
| ELBP50 | | | |

Panel Components

| # | Components | Component Description | Part Number (Qty.) | | |
|----|-------------------------------|--|--------------------|--------------|--------------|
| | | | ELBP18 | ELBP30 | ELBP50 |
| 1 | Electric boiler | The electric boiler supplies hot water to the system, and is activated when there is a call for heat via a built in flow switch. Requires 240V power source. | HA008240 (1) | HA011240 (1) | HA018240 (1) |
| 2 | Junction box | Wiring connection box for 240V | n/a | n/a | n/a |
| 3 | StatLink® 8 Zone Wired Module | Connects room thermostats to their corresponding actuators. Each zone has an LED which indicates a call for heat. | ----- | 40318 (1) | ----- |
| 4 | 24Vac Transformer | Supplies 24V power to the StatLink® | n/a | n/a | n/a |
| 5 | Electrical box | Houses transformer wiring | n/a | n/a | n/a |
| 6 | Terminal strip | Field wiring connections | n/a | n/a | n/a |
| 7 | Pressure relief valve | Vents excess system pressure | n/a | n/a | n/a |
| 8 | Y strainer | Removes entrained air | n/a | n/a | n/a |
| 9 | Automatic air vent | Automatically vents entrained air | n/a | n/a | n/a |
| 10 | Pump | The circulator moves the heated fluid through the hydronic system when there is a call for heat from the thermostat. See pg 6 for pump curve. | ----- | PUMP1558 (1) | ----- |
| 11 | Ball valve | Allows for panel isolation for fill & purge/maintenance | n/a | n/a | n/a |
| 12 | Accessory pack | Installation Accessories | ----- | ACCELBP (1) | ----- |
| a | 1" nitrile washer | Spare washers for pump | | NTRWSH1 (4) | |
| b | ¾" nitrile washer | Washers for adapters, plus 2 spares for ball valves | | NTRWSH34 (8) | |
| c | Mounting screw | Screws to mount panel to wall | | n/a (4) | |
| d | Piping adapters | ¾"MSBP × 1"NPT Lead Free adapters | | n/a (4) | |

Pump Curves



Installation

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

Maintenance

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

Related Documents

- Operation and Maintenance Manual (L6ELBPxx)
- HeatLink Limited Heating Warranty