

CAUTION: This drawing is a simple schematic guide to a successful installation. There may be many necessary components not shown here. We require that our boilers be installed by licensed and experienced trades people who are familiar with the applicable local and national codes. System design is to be completed by an experienced hydronic designer or Engineer. It is necessary to carefully read and follow the installation instructions that come with the boiler along with the application drawing that fits your system.

(4) – Boiler pump is UPS 15-58 or equivalent; minimum flow is 2 gpm; inlet and outlet piping is 1" NPT.

115 1.2.rad IBC SL 20-115 2 loads radiant

DRAWN BY
BRAD POULSEN 11/09/2015

DESCRIPTION

Two-sided installation with two loads. Domestic hot water gets priority operation. One space heating load operates by outdoor reset or on setpoint.

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120VAC (HOT) (COM) G Field-wiring Bundle AC in Primary Boiler Pump Pump **VS Pump** Radiant Pump (4) DHW Pump Factory-installed Ganged endswitches from Therm 24Vac > radiant zone valves Therm. 1 2 0 Therm GND > 10 -(1) Outdoor (3) Indoor 2nd Loop 0

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Wiring Diagram



Wiring Notes

- –No external voltages to be applied to TB2 control terminal strip connections 1-20.
- 2 DHW sensor from indirect tank to terminals 17 and 18; if an aquastat is used connection will be to terminals 5 and 7 (Therm 2).
- 3 Outdoor sensor installed on North exterior wall, exposed to actual outdoor air temperature.
- (4) Pump circuits are fused for a total draw of 5A; maximum amperage draw of 4A is recommended.
 - Note that many other Therm. and P/V connections are possible, as long as the number (1-4) of the Therm. connection agrees with the number of the P/V (pump) connection and with the load (1-4) that the installer choses for that number.

Programming Notes

- ① In Express Setup Menu set Load 1 to Set Point or Reset Heating as desired. If using Reset Heating, confirm that Outdoor Sensor is installed and enter the Design Outdoor Temperature for the installation locale, available from your wholesaler heating department, online or IBC Tech Support. The Design Supply Temperature will be the water temperature delivered when the outdoor temperature has dropped to design temperature.
- 2 In Express Setup Menu set Load 2 to DHW, and for this load only set Boiler Pump to Off. If using a DHW sensor adjust Tank Setpoint if desired (common value is 125°F / 52°C).

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