



Date: October 10, 2019

To: PB Heat, LLC Manufacturer's Representatives

Subject: Peerless® Partner® PV Tank Wiring with PureFire® Boiler

Bulletin: TSB-19-1 (Technical Service Bulletin)

ISSUE: The voltage supplied by the PureFire® Boiler DHW T-Stat/Sensor terminals is insufficient to initiate a call for heat on the Partner® PV ETC101 control. The following wiring methods shown in the Partner® PV manual do not work properly with PureFire® boilers:

- ETC101 Thermostat Diagrams 3 and 5 (pages 19-20 of Rev 1.4 manual).
- PureFire® Boilers Alternate Wiring using a 24VAC transformer (page 21 of Rev 1.4 manual).
- Zoning Panel with PureFire Boiler - SR503 shown (no dedicated DHW dry contacts) (page 22 of Rev 1.4 manual).

CORRECTIVE ACTIONS:

Option 1 (Recommended) –Partner® PV sensor directly connected to the PureFire® DHW Sensor terminals. The ETC101 control is then used just as a junction box to extend the sensor leads. This is the recommended method due to simplicity and it also allows the PureFire® control to capture the actual Partner® temperature.

Option 2 – Partner® PV ETC101 Limit Control connected to Zone Panel. For correct operation of boiler reset and priority functions, the zone relay panel must include dedicated DHW end switch/dry contacts (such as the Taco SR500 EXP series or equal).

Option 3 – Partner® PV ETC101 Limit Control connected to Individual Zone Relay. The ETC101 thermostat terminals (T-T) are connected to a zone relay such as a Honeywell R845 or White Rodgers R829A. This option is shown in the current Partner manual.

See attached supplement for further information and wiring details. As always, please refer to our website for the latest versions of all manuals, supplements, etc.
