

Power Direct Vent Water Heater Freezing Of The Air Inlet Terminal

Problem: Freezing screen on air inlet terminal.

Models affected: All power direct vent models.

Cause : Severe weather condition; extremely cold temperature with high wind or flurries.

How to identify the problem:

- Frost accumulation on the screen in the air inlet terminal (90° elbow).
- Error Code 4 on the gas control
The exhaust pressure switch remained open longer than five (5) seconds (or the inlet pressure switch opened) after the power venter was energized



- The blower is running all the time and is waiting for the inlet pressure switch to close.

Remedy: The air intake screen can be cleaned or removed from the air intake terminal. If removed, this can leave the air intake pipe vulnerable to debris build-up. As of December 2009, we installed a second screen on the back of power direct vent water heaters, in the rubber adaptor on the air inlet Tee, in order to prevent debris from entering the water heater. If necessary, such screen can be accessed for cleaning by removing the pipe on top of the rubber adaptor.

If the air intake screen is removed to prevent freezing, it is strongly recommended that the air inlet screen be installed in spring.