



**Direct Vent Nuisance Pilot Outages
And High Wind Vent Cap**

As a result of our research and field tests, the prescribed procedure for correcting draft induced nuisance pilot outage problems in HUD Direct Vent Water Heaters follows:

1. **Vent Cap Termination:** Terminate the roof jack cap according to the National Fuel Gas Code “10-2 Rule” (ANSI Z223.1Section 7.6.2); terminate the vent cap 2 feet higher than anything within a 10 foot radius, including dormers, gables and roof peak.
 - a. **Roof Jack Extension Kit:** Install our 18” Roof Jack Extension Pipe Kit if needed to elevate the vent cap to the proper height; multiple lengths may be needed to obtain the necessary vent cap height on steeper pitch roofs or if an obstruction such as a gable or dormer is located within the 10 foot radius. Order part # AP12021.
 - b. **High Wind Vent Cap:** A High Wind Vent Cap should always be installed in combination with the Extension Pipe Kit. High wind caps are available singly or in cartons of six and may be factory or field installed. Order part # SP13068 for 1 cap or AP13068 for a carton of 6.
2. **Basement Installations:** Homes with Rheem Direct Vent water heaters may be installed over basements if fresh outside combustion air is provided to the water heater per UL 302B, Section 4.3 (c). Rheem’s Preferred Vent™ Side Air Inlet Kit is UL certified for both OEM and Retrofit installations, is easy to install and contains everything needed for a complete side air inlet installation including a computer designed air intake grill with inner baffle that virtually eliminates draft induced nuisance pilot outage problems. OEM’s may also prefabricate their own side air inlet system if they choose. Order part # AP12191-1.
3. **Natural To LP Fuel Conversions:** The number 1 cause of nuisance pilot outage problems is faulty Natural to LP gas conversions. While most conversion technicians replace the Natural gas with LP gas orifices (main burner & pilot), many fail to adjust the two settings located on the body of the thermostat from Natural to LP gas per the instructions located just above the thermostat on the front of the water heater and in the Installation Manual. Failure to set the two thermostat adjustments to the LP setting will create an oily, sooty flame and pilot outage problems.