Inspections Division
Date: 06/27/14

Intake / Exhaust Guidelines

- This water heater is a direct vent water heater and therefore is certified and listed with the vent system. You must use vent components that are certified and listed with the water heater model.
- Do not combine vent components from different manufacturers.
- The vent system must vent directly to the outside of the building and use outside air for combustion.
- Every vent connection must be accessible for inspection, cleaning, and replacement.
- Avoid dips or sags in horizontal vent runs by installing supports per the vent manufacturer's instructions.
- Support horizontal vent runs every four feet and all vertical vent runs every six feet or in accordance with local codes.

Refer to the specific instructions on your vent product for additional installation requirements.

- Venting should be as direct as possible with a minimum number of pipe fittings.
- Vent diameter must not be reduced.
- Do not connect the venting system with an existing vent or chimney.
- Do not common vent with the vent pipe of any other water heater or appliance.
- Vent connections must be firmly pressed together so that the gaskets form an air tight seal.
- R50LSi, R75LSi, R94LSi: The vent piece connected to the water heater must be secured with one self-tapping screw.
- Refer to the vent pipe manufacturers' instructions for component assembly instructions.

Condensate

Condensate formation can occur in high efficiency direct vent appliances. To prevent condensate damage follow these instructions.

- Vertical terminations must incorporate a condensate drain and trap as close as possible to the appliance.
- The condensate trap must contain a minimum of 3 inches (75 mm) of water.
- Dispose of condensate per local codes.
- Rinnai offers a condensate trap.
- Rinnai LSi tankless water heaters have an integrated condensate collector.

⚠ WARNING

If the condensate collector is not used, the drain pipe must be capped to prevent exhaust gases and condensate from entering the building. The cap is supplied on the appliance.

NOTICE

Provisions must be made to prevent the condensate from entering the water heater. Without proper drainage or disposal condensate will damage the heat exchanger.

- Slope any horizontal venting 1/4 inch per foot (19 mm / m), towards the heater if the condensate collector is used, or towards the exhaust terminal if the condensate collector is not used.
- Regions of cold climate will create more condensate in the vent system. The condensate collector should be used in cold climates.