

# Service bulletin

## Condensation and rain prevention requirements



**BOSCH**

### Purpose

Bosch Water Heating now requires the installation of an external condensate drain (in addition to the one supplied with the heater). This bulletin is an addition to the Venting section of your current installation manual. This bulletin, as well as the printed instructions in the manual, must be followed to ensure the proper operation and longevity of your Bosch water heater. Any failure to do so will void your product warranty. External condensate drains must be installed under the following conditions:

- ▶ All vertically terminating vent installations
- ▶ Horizontal terminating vent installations where the total vent length is greater than 5 feet
- ▶ Vent installations where any section of the exhaust vent pipe passes through an unconditioned space such as an unheated attic, basement or crawl space

**Note:** Straight pipe length equivalency for a 90° elbow is 2.5ft and for a 45° elbow is 1.25ft.

### External Condensate Drain installation tips

1. Install condensate drain as close to the heater as possible with vent run sloping back to the appliance ¼" per foot of lateral run.
 

**Note:** Last horizontal section of venting (including terminator) must slope down ¼" per foot of lateral run to the termination to prevent rain from entering the venting system.
2. Do not route condensate drain piping through areas where it may freeze.
3. Use ¾" ID high temperature silicone tubing to connect to drain port.
4. Form a condensate trap in silicone tubing by means of a 3" loop partially filled with mineral oil or water.
5. To increase drain tube length, connect the end of the high temperature silicone tubing to vinyl tubing, PVC or CPVC pipe. Do not use copper piping for any portion of the condensate drain. Do not reduce the internal diameter at any point.
 

**Note:** Condensate must be disposed of according to local codes.

