

## 4. VENT SYSTEM

### GENERAL

- Install the boiler / venting system in accordance with these instructions and with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, CAN/CSA B149.1, and/or applicable provisions of local building codes.
- This boiler is a direct vent appliance according to ANSI Z21.13/CSA 4.9 standard.

### DANGER

Ensure the exhaust and intake piping comply with these instructions regarding vent system. Inspect finished combustion air intake and exhaust piping thoroughly to ensure all joints are well secured and airtight and comply with all applicable code requirements, as well as with the instructions provided in this manual. Failure to provide a properly installed vent system will cause severe personal injury or death.

### WARNING

This vent system will operate with a positive pressure in the pipe. Do not connect vent connectors serving appliances vented by natural draft into any portion of mechanical draft systems operating under positive pressure. Follow the venting instructions below carefully. Failure to do so may result in severe personal injury, death, or substantial property damage.

- Do not use Foam Core Pipe in any portion of the exhaust piping from this boiler. Use of Foam Core Pipe may result in severe personal injury, death, or substantial property damage.
  - Cellular foam core piping may be used on air inlet piping only. Never use cellular foam core material for exhaust vent piping.
- **Determine exhaust vent location:**
    - a) See illustration within this section of clearances for the location of the exit terminals of direct-vent venting systems.
    - b) Provide a minimum of 3.00 ft / 0.92 m distance from any door, operable window, or gravity intake into any building.
    - c) Provide a minimum of 1.00 ft / 0.30 m clearance from the bottom of the exhaust above the grade (snow removal may be necessary to maintain clearance).
    - d) In the United States provide a 4.00 ft / 1.22 m horizontal clearance and in Canada a 3.00 ft / 0.92 m clearance from electrical meters, gas meters, gas regulators and relief equipment. In no case shall the exit terminal be above or below the aforementioned equipment unless the 4.00 ft / 1.22 m horizontal distance is maintained.
    - e) Do not locate the exhaust over public walkways where condensate could drip and/or freeze and create a nuisance or hazard.
    - f) When adjacent to a public walkway, locate exit terminal at least 7.00 ft / 2.13 m above grade.
    - g) Do not locate the exhaust directly under roof overhangs to prevent icicles from forming.
    - h) Provide a 6 in / 152 mm clearance from the inside corner of vertical walls, chimneys, etc., as well as horizontal corners created by roof overhangs.
  - **Determine air intake vent location.**
    - a) Provide 1.00 ft / 0.30 m clearance from the bottom of the intake air vent and the grade.
    - b) Do not locate intake air vent in a parking area where machinery may damage the pipe.
    - c) When venting with a two-pipe system. Minimum distance between exhaust vent and intake air vent on a single boiler is 4.72 in / 120.00 mm center-to-center.

### EXHAUST VENT AND INTAKE AIR VENT

This boiler is a direct vent appliance according to ANSI Z21.13/CSA 4.9 standard. The intake and exhaust venting methods are detailed in the section 4: "VENT SYSTEM". Do not attempt to install the Boiler using any other means. Be sure to locate the boiler such that the air intake and exhaust vent piping can be routed through the building and properly terminated.

### INSTALLING EXHAUST VENT AND INTAKE AIR VENT

### DANGER

Ensure that the flow of combustion and ventilation air are not obstructed. BAXI urges users to install CO detectors in buildings where the boiler is located, even though such detectors may not be required by local law. CO detectors should be calibrated regularly as specified by the manufacturer.

#### Note:

To fix flue pipes to the wall, supports should be approximately 3.28 feet (1 meter) from each other. Supports should be fixed along the joint point of each pipe.

INSTALLER SECTION (en)