

# DIRECT VENT — Sidewall with separate pipes *(continued)*

Polypropylene AL29-4C S.S. See notices on previous page.

**WARNING** All vent pipes and air inlets must terminate at the same height to avoid possibility of severe personal injury, death or substantial property damage.

2. Place wall penetrations to obtain minimum clearances shown in Figure 24 for U. S. installations. For Canadian installations, provide clearances required by CSA B149.1 or B149.2 Installation Code and a ULC S636 compliant vent kit.
3. The air inlet of a ECO boiler is part of a direct vent connection. It is not classified as a forced air intake with regard to spacing from adjacent boiler vents.

## Prepare wall penetrations

1. Air pipe penetration:
  - a. Cut a hole for the air pipe. Size the air pipe hole as close as desired to the air pipe outside diameter.
2. Vent pipe penetration:
  - a. Cut a hole for the vent pipe. For either combustible or non-combustible construction, size the vent pipe hole at least 0.4" larger than the vent pipe diameter.
  - b. Insert a galvanized metal thimble in the vent pipe hole as shown in Figure 25.
3. Use the provided paper template for correct location of hole centers.
4. Use of a sidewall termination plate is REQUIRED.
  - a. Kits for several vent sizes are available from Weil-McLain. See "VENT/AIR PARTS AND KITS" on page 107.
  - b. Plate may be field fabricated from corrosion resistant material of sufficient strength. Plate must allow venting to maintain minimum clearance to combustibles.

**WARNING** Ensure that the plate material is strong enough to prevent the termination from being pushed inward if struck or pushed from the outside.

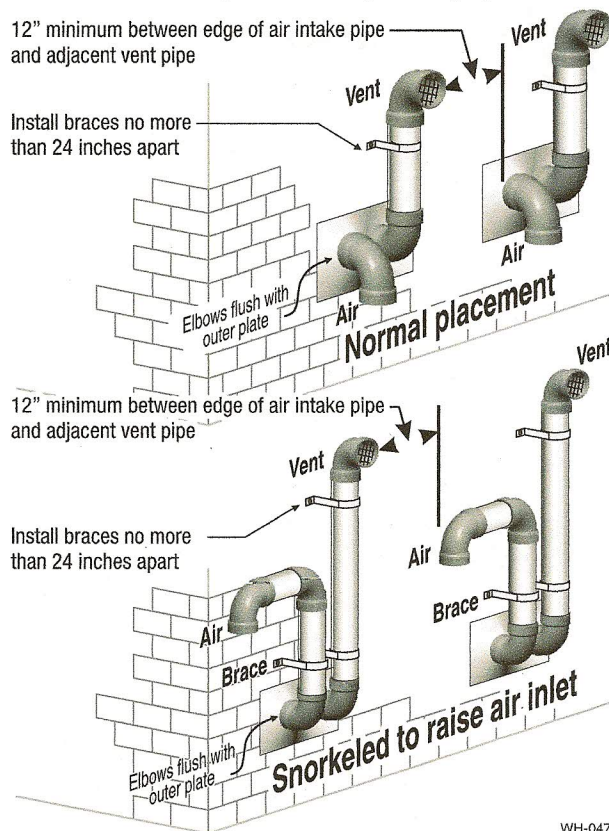
5. Follow all local codes for isolation of vent pipe when passing through floors or walls.
6. Seal exterior openings thoroughly with exterior caulk.

## Termination and fittings

1. Prepare the vent termination elbow and the air termination elbow by inserting bird screens. (See Figure 23, page 24.) Bird screens must be purchased separately. See the parts list at the end of this manual for part numbers.
2. Secure the elbows so they will butt against the sidewall termination plate.
3. When completed, the air termination coupling must be oriented at least 12 inches below the vent termination and at least 12 inches above grade or snow line as shown in Figure 23, page 24.
4. You can orient the vent termination elbow either directly outward or 90 degrees away from the air inlet elbow as shown in Figure 23, page 24.
5. Maintain the required dimensions of the finished termination piping as shown in Figure 23, page 24.
6. For multiple boiler terminations, see Figure 24.
7. Do not extend exposed vent pipe outside of building more than shown in this document. Condensate could freeze and block vent pipe.

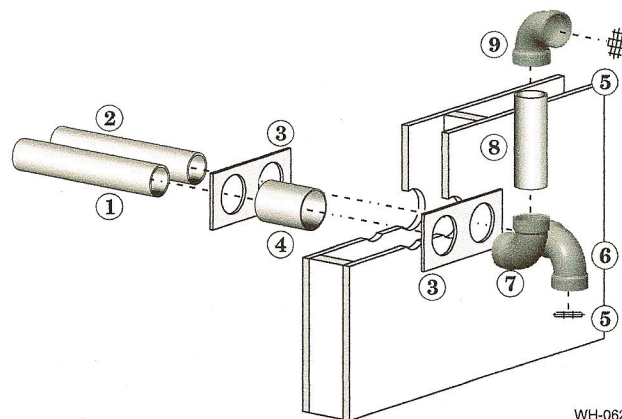
**NOTICE** If extending the vent and air pipes out from the wall, install a coupling on each pipe. Mount the piping with the coupling flush with the outer plate.

**Figure 24** Multiple separate pipes sidewall terminations — maintain vertical spacing between vent and air fittings shown in Figure 23, page 24



WH-047

**Figure 25** Sidewall termination assembly — using separate pipes



WH-062

1 Vent piping	4 Galvanized thimbles, by installer
2 Air piping	5 Bird screen, by installer
3 Sidewall termination plates: for 3" PVC, use plates supplied with boiler in W-M vent/air plate kit; for 3" AL29-4C or 2" PVC, purchase optional sidewall separate pipes plate kit	6 Air inlet elbow
	7 Elbow
	8 Nipple
	9 Elbow (vent termination)