

## Roof Mounting

Ventilators are designed for installation atop a prefabricated or factory-built roof curb. If an up-blast fan is used for kitchen hood exhaust, ensure discharge is at least 40" above the roof surface in accordance with NFPA 96. Refer to Authority Having Jurisdiction (AHJ) requirements prior to installation. Follow manufacturer's instructions for proper curb installation.

1. If a backdraft damper is required, it should be secured within the curb using sheet metal screws to the bottom of a damper box or damper support flanges located below the roof deck.

**CAUTION: NFPA 96 RECOMMENDS THAT DAMPERS SHOULD NOT BE INSTALLED WHEN EXHAUSTER IS USED FOR REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL KITCHEN EQUIPMENT. CONSULT STATE AND LOCAL CODES FOR DETAILED REQUIREMENTS.**

2. On an up-blast fan, normally the power cord is brought through the conduit tube located on the top skirt on the outside of the unit.
3. Curb to substrate installation: Secure curb flange to substrate using suitable hardware (not furnished). Refer to **Table 1** and **Table 2** for hardware details.
4. Fan to curb installation: Use 1/4"-14 x 2" galvanized self-drilling screws. 19" through 40" fan bases use a minimum of 12 screws (3 per side). 44" fan bases use a minimum of 16 screws (4 per side).
5. Before connecting power source to the fan motor, verify power line wiring is de-energized. Check that the power source is compatible with the requirements of your equipment.
6. Connect power supply wiring to the motor as indicated on the motor nameplate or terminal box cover.
7. Before powering up fan, check ventilator wheel for free rotation.
8. Re-install motor cover. Check all fasteners for tightness.
9. A drain pipe is provided for single-point drainage of water and residue on up-blast fans. The drain pipe should be positioned towards the roof slope. Some means for collection of this residue must be provided, either a container directly under the trough or use of an adapter and pipe to carry the residue to a remote collection point. An optional downspout and grease collection box is available as an accessory item for up-blast fans.

## Wall Mounting

Refer to Authority Having Jurisdiction (AHJ) requirements prior to installation. Follow manufacturer's instructions for proper curb installation.

1. The same instructions, warnings, and notes found under Roof Mounting section will apply. Follow steps 1-9 from above, with additional mounting information below.
2. **Masonry Wall/Steel Studs:** Around the wall opening, install an angle iron frame at least 2" x 2" x 1/4". Frame should be approximately 1/2" smaller than the inside base dimension of the ventilator. For masonry, secure the lead cinch type anchors with non-ferrous bolts (3 per side). For steel, use self-drilling screws (3) per side. The ventilator should be mounted to the mounting angle iron frame with self-tapping sheet metal screws (3 per side).
3. **Wood Sidings:** Around the wall opening, install a wooden frame 2" high x 2" wide. Frame should be approximately 1/2" smaller than the inside base dimension of the ventilator. Secure with counter-sunk expansion type lag bolts (3 per side). The ventilator should then be mounted to the mounting frame with square head wood screws (3 per side) 3/8" minimum.
4. Steel wall mount brackets are also available as a factory option for the fan.
5. The mounting flange connections should be coated with a suitable caulking compound or an approved waterproof mastic sealer.
6. Wall mount application is not recommended for fans greater than 24" wheel with 2 HP motor (1 or 3 phase); 24" wheel with 3 HP motor (3 phase only).

**IMPORTANT: OSHA REGULATIONS REQUIRE THE VENTILATOR TO BE MOUNTED AT LEAST EIGHT (8) FEET ABOVE GROUND OR FLOOR LEVEL.**