

ELECTRIC FURNACE COIL CABINET

INSTALLATION INSTRUCTIONS

For Use with E Series Electric Furnaces

ABOUT THE COIL CABINET

This coil cabinet is designed for upflow or downflow installations. The cabinet is factory equipped with insulation to ensure a sealed fit with the electric furnace. The outside top and bottom are factory equipped with gasketing to ensure a sealed fit with the electric furnace. See Figure 1.

Review the furnace installation instructions for specific details on return air, filtering systems, and installation requirements before proceeding.

General Information

- Systems may be installed with non-ducted or ducted return air.
- Return air filters are not provided with the coil cabinet.
- Remove refrigerant line knockouts only when installing an indoor coil for an air conditioning or heat pump system. Refer to coil instructions for further additional details.
- Provide minimum clearances at front, rear and side walls of closet for installation of furnace.
- The system should be leveled at installation and attached to a properly installed duct system (ducted systems only).
- Determine best location for installing the system. consideration should be given to availability of electric power, service access, and installation of refrigerant lines.
- Additional provisions may be necessary for optional air conditioning if refrigerant lines are installed other than at the front of the furnace.
- An optional upflow duct connector or field supplied connector may be used to attach the furnace to the overhead supply duct (upflow systems only).

UPFLOW SYSTEM INSTALLATION

Non-Ducted Systems

1. Position the upflow stand kit (or other mounting platform) over the opening in the floor. **NOTE:** Make sure the airflow opening in the upflow stand is properly aligned and unrestricted over the opening in the floor. See installation instructions provided with the furnace for floor cutout dimensions. Coil cabinet dimensions are shown in Figure 1.
2. Place coil cabinet on top of the upflow stand and align all 4 sides. **NOTE:** Make sure the inside gasket surface is on the bottom, the gasket on the outside of the cabinet remains intact, and airflow passage between the upflow stand kit and coil cabinet are aligned and unrestricted. See figure 2.
3. Secure the coil cabinet to the upflow stand (or other mounting platform) as outlined in the installation instructions provided with the unit.
4. Place furnace on top of the coil cabinet and align all four sides. **NOTE:** Make sure airflow passage in furnace and coil cabinet are aligned and unrestricted.
5. Secure both units together with four fasteners, using holes that were pre-drilled at the factory.
6. Remove the air filter and filter retainer from the E series furnace and discard. These items will not be needed for this application.
7. Install the coil in accordance to the installation instructions provided with the unit.
8. Complete the furnace installation as outlined in the E Series installation instructions.

9. Install the bottom bracket (white painted) by placing the tabs over bottom edge of the furnace as shown in Figure 2.

NOTE: Make sure the sides and bottom of the bracket are flush with the sides and bottom of the furnace cabinet.

10. Re-attach the solid door to the cabinet. Secure the door to the cabinet by using the latch on top of the door.

Ducted Return Air Systems

1. Position the coil cabinet over the opening in the floor. **NOTE:** Make sure the airflow opening in the coil cabinet is properly aligned and unrestricted over the opening in the floor. See installation instructions provided with the furnace for floor cutout dimensions.
2. Secure the coil cabinet to the floor as outlined in the installation instructions provided with the furnace.
3. Place furnace on top of the coil cabinet and align all four sides. **NOTE:** Make sure airflow passage in furnace and coil cabinet are aligned and unrestricted.
4. Secure both units together with four fasteners, using holes that were pre-drilled at the factory.
5. Install the coil in accordance to the installation instructions provided with the unit. **NOTE:** The filter needs to be installed in the return air grille (in the home) because there is no room below the coil cabinet.
6. Complete the furnace installation as outlined in the E Series installation instructions.
7. Install the bottom bracket (white painted) by placing the tabs over bottom edge of the furnace as shown in Figure 2. **NOTE:** Make sure the sides and bottom of the bracket are flush with the sides and bottom of the furnace cabinet.
8. Re-attach the solid door to the cabinet. Secure the door to the cabinet by using the latch on top of the door.

DOWNFLOW SYSTEM INSTALLATION

Non-Ducted Systems

NOTE: A wall mount grille needs to be installed in the wall or door (if installed in a closet). It should be located above the coil cabinet's return air inlet. The return air will be filtered through a disposable filter that will be installed in the top of the coil cabinet.

1. Position the downflow furnace over the opening in the floor. See installation instructions provided with the furnace for floor cutout dimensions. **NOTE:** Make sure the airflow opening in the furnace is properly aligned and unrestricted over the opening in the floor. See installation instructions provided with the furnace for floor cutout dimensions. Coil cabinet dimensions are shown in Figure 1.
2. Remove the 18" x 20" filter from the E series furnace and discard the wire retainer.
3. Place coil cabinet on top of the furnace and align all 4 sides. **NOTE:** Make sure the inside gasket surface is on the bottom, the gasket on the outside of the cabinet remains intact, and airflow passage between the furnace and coil cabinet are aligned and unrestricted. See Figure 3.
4. Attach Vetilaire bracket to the back of the coil cabinet at the location shown in Figure 3. Make sure the opening of the bracket is over the opening of the cabinet.
5. Secure both units together with four fasteners, using holes that were pre-drilled at the factory.
6. Install the coil in accordance to the installation instructions provided with the unit. Make sure to seal the line set knockouts

with the sheet metal brackets provided and some water resistant caulking material if necessary.

7. Place the 18" x 20" filter in the filter rack (on top of the coil cabinet).
8. Install the bottom bracket (white painted) by placing the tabs over bottom edge of coil cabinet as shown in Figure 3.
NOTE: Make sure the sides and bottom of the bracket are flush with the sides and bottom of the cabinet.
9. Re-attach the solid door to the cabinet. Secure the door to the cabinet by using the latch on top of the door.

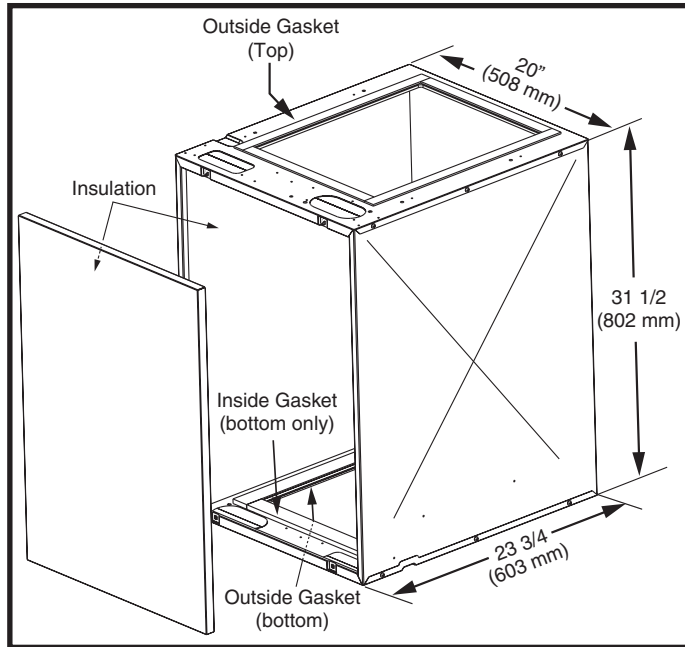


Figure 1. Coil Cabinet Dimensions

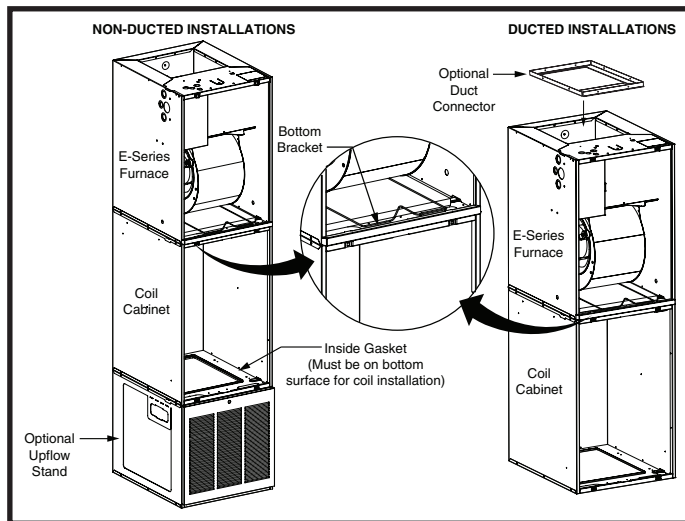


Figure 2. Upflow Installations

Ducted Return Air Systems

1. Position the downflow furnace over the opening in the floor.
NOTE: Make sure the airflow opening in the furnace is properly aligned and unrestricted over the opening in the floor. See installation instructions provided with the furnace for floor cutout dimensions. Coil cabinet dimensions are shown in Figure 1.
2. Remove the 18" x 20" filter from the E series furnace and discard the wire retainer.
3. Place coil cabinet on top of the furnace and align all 4 sides.
NOTE: Make sure the inside gasket surface is on the bottom, the gasket on the outside of the cabinet remains intact, and airflow passage between the furnace and coil cabinet are aligned and unrestricted. See Figure 3.
4. Secure both units together with four fasteners, using holes that were pre-drilled at the factory.
5. Connect the field fabricated duct to the top of the coil cabinet. Seal all joints with industrial grade sealing tape or liquid sealant. The joint between the furnace and cabinet must be air tight. Requirements for sealing ductwork vary from region to region. Consult with local codes for requirements specific to your area.
6. Install the coil in accordance to the installation instructions provided with the unit. Make sure to seal the line set knockouts with the sheet metal brackets provided and some water resistant caulking material if necessary.
7. Add the VentilAire duct onto the duct work attached to the unit above the coil cabinet. Seal the edges so that there is as little air leakage as possible.
8. Place the 18" x 20" filter in the filter rack (on top of the coil cabinet).
9. Install the bottom bracket (white painted) by placing the tabs over bottom edge of coil cabinet as shown in Figure 3.
NOTE: Make sure the sides and bottom of the bracket are flush with the sides and bottom of the cabinet.
10. Re-attach the solid door to the cabinet. Secure the door to the cabinet by using the latch on top of the door.

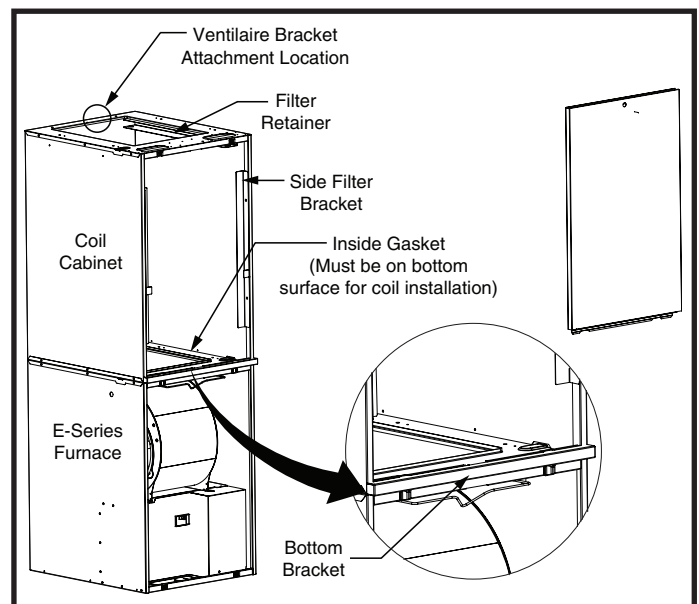


Figure 3. Downflow Installation

