

**EVAPORATOR COIL INSTALLATION INSTRUCTIONS
MFD HSG GAS AND ELECTRIC FURNACES**

INTRODUCTION:

Mortex Evaporator Coils are designed specifically for use with manufactured housing furnaces, either gas downflow or electric downflow or upflow. You can not use plastic pans in upflow fuel burning furnaces.

These instructions are primarily intended to assist qualified individuals trained and experienced in the proper installation of this type equipment. Some state codes require installation and service personnel to be licensed. Refer to authorities having jurisdiction for additional guidance. (All national, state, and local codes must be followed.)

NOTE: MORTEX COILS, BLOWERS, AND OTHER ACCESSORIES INSTALLED WHEN AIR CONDITIONING IS ADDED TO MANUFACTURED HOUSING FURNACES WILL COMPLY TO HUD REGULATIONS REQUIRING THIRD PARTY APPROVALS. EFFICIENCY AND CAPACITY RATINGS AS REQUIRED BY HUD ARE LISTED IN CURRENT ARI DIRECTORY FOR MORTEX COILS MATCHED WITH MANY BRANDS OF OUTDOOR UNITS. THESE INDOOR COIL RATINGS ARE BASED ON AIR QUANTITIES CONSISTENT WITH THOSE THAT ARE ENCOUNTERED IN TYPICAL MANUFACTURED HOUSING AIR CONDITIONING APPLICATIONS.

INSTALLATION WITH ELECTRIC FURNACE:

Typical electric furnace installation consists of a coil without cabinet installed on top of a downflow furnace or the coil inside a cavity on either a downflow or upflow furnace.

The following Mortex installation kits are unique to manufactured housing air conditioning and these or equivalent kits are required to complete the installation.

1. Filter-Electric (95-1741-00) is required when using Mortex Coils on all Nordyne electric furnaces without cavities. Evcon furnace filters are normally adequate.
2. Coil Support Bracket Kit (99-3420-00) is required to support coils in Evcon furnaces. Furnace Insulation Kit (99-9104-00) should be ordered as needed.
3. Furnace Insulation Kits are required to insulate interior of Nordyne furnaces. E()EH use kit 99-9101-02, FEHA use kit 99-9105-00.
4. Mortex coil cavity for Nordyne electric furnaces are available as an option.

Installation procedure.

1. Turn off electrical power to the furnace by turning off breaker in house panel. **CAUTION: Furnace may be connected to more than one supply circuit. Do not use furnace disconnect only. Check power at furnace to insure power is off.**
2. Remove filter at top of furnace cabinet if Nordyne furnace.
3. Remove refrigerant line knockout at top of Nordyne furnace or install Support Bracket on Evcon.
4. Install insulation if needed.

5. Attach drain pan gasket provided with coil to underside of coil pan and center evaporator coil on furnace. See figure A.
6. Attach filters to sides of coil per filter instructions if Nordyne furnace.
7. Cut out floor opening for refrigerant lines and drain hose.
8. Connect drain hose to condensate fitting. See figure B. **All pull through furnaces must have a condensate trap in the drain line.**
9. Connect refrigerant lines and make sure all connections are tight without leaks.
10. With the coil in place seal off any openings at top or bottom of furnace to prevent air leakage or air bypass.
11. Turn power on to furnace.
12. Replace front door.

INSTALLATION WITH GAS FURNACE:

Typical gas furnace installation consists of a coil without cabinet installed in the cavity of a downflow furnace. Coil with plastic pan is not suitable for upflow gas.

The following Mortex installation kits are unique to manufactured housing air conditioning and these or equivalent kits are required to complete the installation.

1. Filter-Universal Gas Kit (95-2054-00) as required.

Installation procedure:

1. Turn off electrical power to furnace.
2. Remove the lower front panel of the furnace, and re-route any gas piping in front of coil compartment as required to install coil.
3. Remove the coil cover panel(s).
4. Remove knockouts in front left bottom of furnace for routing of refrigerant lines and condensate drain.
5. Attach drain pan gasket provided (see figure A) to underside of coil pan and center coil in coil cavity.
6. Connect drain hose to condensate pan fitting, securing with clamp. See figure B.
7. Remove knockouts from coil cover panel(s), cut fiberglass insulation covering openings and reinstall cover.
8. Install notched cover plates over refrigerant lines using rubber grommets to seal around lines and screw together with provided screws. Using provided self tapping screws fasten plate to furnace cover. **Caution: make sure screws do not penetrate coil tubes.** On coils less than 18 tubes high use the third plate to cover opening above notched plate.
9. Connect refrigerant lines and make sure all connections are tight.
10. Reconnect the gas piping if it was disconnected and seal off any openings at bottom of furnace. National, state and local codes must be followed.
11. Install Filter.
12. Turn on gas/electrical supply and make final system check.
13. Replace front door.