INSTALLATION INSTRUCTIONS

Models

FCV3600A FCV4800A FCV6000A

Require AMF001NHA Accessory No Heat Kit

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Use ONLY factory listed electric heaters.

Variable Speed Fan Coils

Safety Labeling and Signal Words

Danger, Warning and Caution

The signal words **DANGER**, **WARNING** and **CAUTION** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARN-ING** and **CAUTION** will be used on product labels and throughout this manual and other manuals that may apply to the product.

DANGER – Immediate hazards which **WILL** result in severe personal injury or death.

WARNING - Hazards or unsafe practices which **COULD** result in severe personal injury or death.

CAUTION – Hazards or unsafe practices which **COULD** result in minor personal injury or product or property damage.

Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:

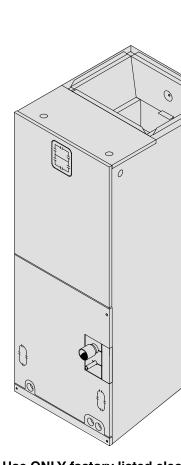
WARNING

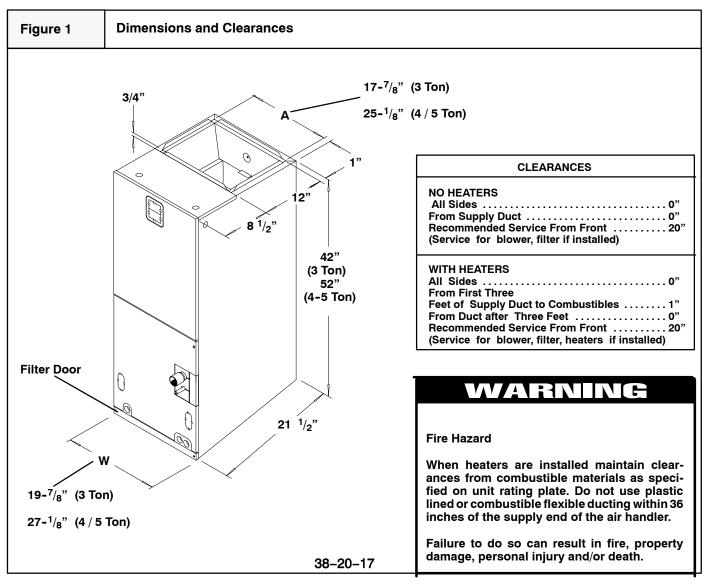
The signal word **CAUTION** is used throughout this manual in the following manner:

CAUTION

Product Labeling

Signal words are used in combination with colors and/or pictures on product labels.





General Information

WARNING

Installation or repairs made by unqualified persons can result in hazards to you and others. Installation MUST conform with local building codes and with the National Electrical Code NFPA70 current edition.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

The blower cabinet may be used for cooling or heat pump operation with or without electric heat. Installations without electric heat, require a No Heat Kit. The cabinet can be installed in an upflow or horizontal position (Figure 2, 3). Horizontal installations require a horizontal kit. Some models are shipped with the horizontal kit already installed. These units are not shipped with air filters installed. Filter must be field supplied, either washable or disposal type. Washable filters are available as an accessory.

Location

Select the best position which suits the installation site conditions. The location should provide adequate structural support, space in the front of the unit for service access, clearance for return air and supply duct connections, space for refrigerant piping connections and condensate drain line connections. If heaters are being installed make sure adequate clearance is maintained from supply ductwork, **See Clearances and Warning in Figure 1**.

NOTE: Internal filter can be accessed from separate filter door. If the filter can **NOT** be easily accessed, a remote filter is recommended. Refer to ACCA Manual D for remote filter sizing.

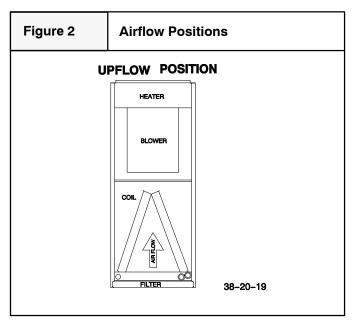
If the unit is located in an area of high humidity, nuisance sweating of casing may occur. On these installations a wrap of 2" fiberglass insulation with a vapor barrier should be used.

Fan Coils

Upflow Installations

The unit is ready to install in the upflow position without modifications.

The unit **MUST** be supported on the bottom **ONLY** and set on a supporting frame or shelf. Use screws through the bottom to anchor to supporting frame.



Non-Ducted Return Air Closet Installation

The cabinet can be installed in a closet with a false bottom to form a return air plenum, or mounted on an open platform inside the closet. Platform should be high enough to provide a free (open) area for adequate return airflow into the bottom of the cabinet. The open area can be on the front side or a combination of front and sides, providing there is clearance on the sides between cabinet and closet. **Refer to ACCA Manual D for sizing and free area recommendations.**

NOTE: Local codes may limit application of systems without a ducted return to single story dwellings.

Horizontal Left and Right Installations

Units that are shipped with the horizontal drain pan installed are set up for horizontal left hand airflow. They must have the drain pan repositioned for right hand airflow. All other units must have the horizontal drain pan kit installed for either left or right hand applications. For installation of the drain pan, refer to the installation instructions included with the horizontal drain pan kit, and the following.

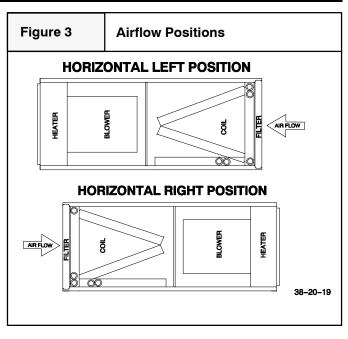
CAUTION

A field-fabricated auxiliary drain pan, with a seperate drain is REQUIRED for all installations over a finished living space or in any area that may be damaged by overflow from the main drain pan. In some localities, local codes require an auxiliary drain pan for ANY horizontal installation.

Drain Pan Installation / Conversion for Right Hand Airflow

See Figure 4

- 1. Remove coil access panel and carefully pull Coil/Horizontal Drain Pan Assembly out.
- 2. Separate horizontal drain pan from coil drain pan. The coil drain pan fits snuggly inside the horizontal pan.



- 3. Position side of coil drain pan into horizontal drain pan trough on deep end of pan on right side of coil.
- 4 Remove coil drip flanges from A-coil and reinstall on right side of coil (same side as horizontal drain pan).
- 5. Remove the coil support bracket from the left side of the cabinet and reinstall bracket on the right side of the cabinet.
- 6. Install drain plugs as required in back side of horizontal drain pan. Install plugs in A coil drain pan to prevent air leaks.
- 7. Slide coil assembly into cabinet being careful not to tear insulation.

NOTE: Be sure A coil pan fits into the support bracket on the back side of the cabinet and that pan is under the flange of the bracket on the right side. The brackets fit over the top edge of the A coil drain pan to hold it when it's put into the horizontal position.

8. Refer to Restrictor Orifice Selection and change restrictor if necessary, then install coil access panel.

Cabinet can now be placed on it's side for horizontal airflow.

Suspended Cabinet Installation

- 1. The cabinet may be supported on a frame or shelf, or it may be suspended.
- 2. Use metal strapping or threaded rod with angle iron supports under the auxiliary drain pan to suspend cabinet. These supports **MUST** run parallel with the length of the cabinet (**Figure 5**).
- 3. Ensure that there is adequate room to remove service and access panels after installing supporting brackets.
- 4. Place Styrofoam blocks in auxiliary drain pan to support cabinet.

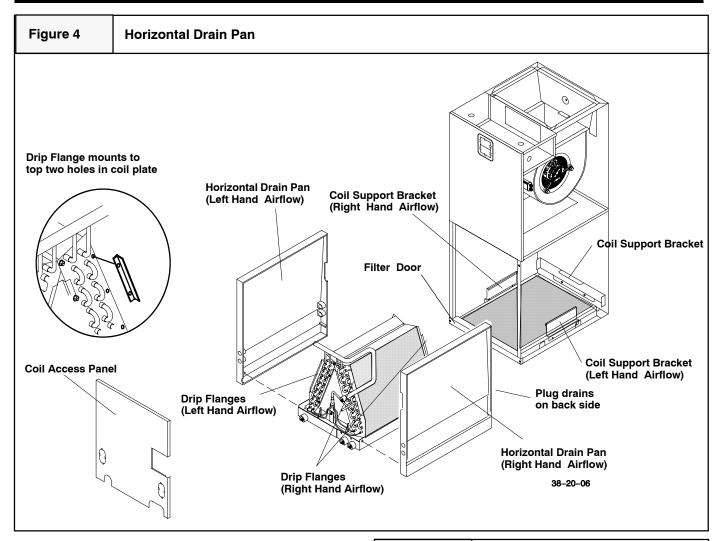
Duct Connections

Supply Duct

Supply duct must be attached to the outside of flange on outlet end of unit. Flexible connectors may be used if desired. Maintain clearances from supply duct to combustibles when heaters are installed. See **Figure 1** and unit rating plate.

Return Duct

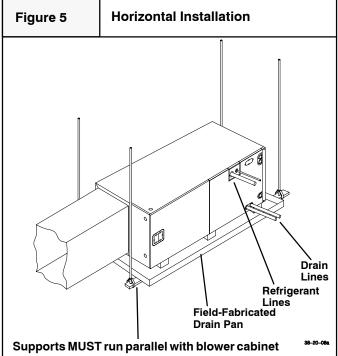
Return duct should be attached to bottom of unit using sheet metal screws or other fasteners.



Filter Installation

Filters must be field supplied. The blower cabinet is set up for an internal filter or a remote filter grille or other means may be provided. Refer to ACCA Manual D for remote filter sizing.

To install an internal filter, remove screw securing filter door and slide filter into unit. Some filters are marked for airflow direction, make sure arrow points towards blower if marked. Washable filters are offered as an accessory. Disposable filter sizes are listed in Filter Static Pressure Drop Table.



Condensate Drain Connections

The unit is provided with 3/4" National Pipe Thread (NPT) condensate drains. (**Figure 1**). Any drain can be used as a primary or secondary drain. Condensate drain lines should be installed in a manner that does not obstruct access to the filter.

There is a secondary drain fitting supplied with the unit that will convert any of the primary condensate drain connections into a secondary drain connection. This fitting should be installed in any of the primary drain connections to convert it to a secondary drain.

- Connect the drain lines to the appropriate drain fittings. 3/4" PVC or other type of drain line may be used. The drain line must not be smaller than the drain fitting.
- 2. Install a trap in the drain line below the bottom of the drain pan and pitch the drain lines down from the coil at least I/4" per foot of run. Horizontal runs over 15 feet long must also have an anti-siphon air vent (stand pipe), installed ahead of the horizontal run. An extremely long horizontal run may require an oversized drain line to eliminate air trapping.
- 3. Route to the outside or to a floor drain, laundry tray or waste line (sewer). Check local codes before connecting to a sewer line.
- 4. Insulate drain lines where sweating could cause water damage.
- If a gravity drain cannot be used, install a condensate pump. Install the pump as close to the indoor section as possible.

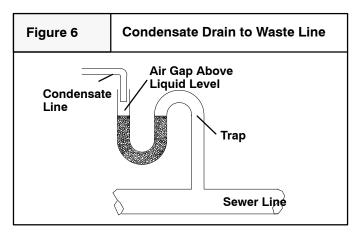
Refrigerant Line Connections

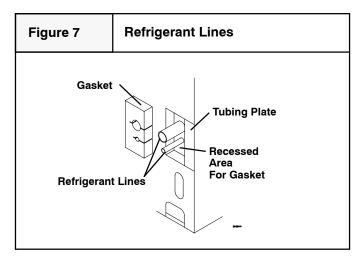
Size refrigerant lines according to information provided with outdoor condensing unit. Route the refrigerant lines to the coil in a manner that will not obstruct service access to the unit or removal of the filter.

- 1. Remove rubber plugs from refrigerant connections using a pulling and twisting motion. Hold refrigerant lines to avoid bending or distorting.
- 2. Remove the coil door before brazing refrigerant connections to prevent damage to paint finish.
- Fit refrigerant lines into coil connections and remove the tubing plate and slide plate over the refrigerant lines to assure sufficient room for brazing.
- 4. Reinstall tubing plate and door and install the gasket, provided with the unit, over the suction and liquid lines into the tubing plate recess to ensure an air seal around the coil. See Figure 7.

Waste Line Connection

If the condensate line is to be connected to a waste line, an open trap must be installed ahead of the waste line to prevent escape of sewer gases. NEVER CONNECT THE DRAIN LINE DIRECTLY TO A WASTE LINE. ALWAYS INCLUDE AN AIR GAP AND TRAP, (Figure 6). Be sure to keep the trap filled with water during the winter or off season.





Electrical Connections

WARNING

Electrical shock hazard.

Turn OFF electric power at fuse box or service panel before making any electrical connections and ensure a proper ground connection is made before connecting line voltage.

Failure to do so can result in property damage, personal injury and/or death.

All electrical work MUST conform with the requirements of local codes and ordinances and the National Electrical Code NFPA 70 current edition.

The low voltage transformer and the fan control are standard on all models and are prewired at the factory. Line voltage connections are made to the heater accessory or the lugs on the No Heat Kit.

Overcurrent Protection

The power supply wiring to the unit **MUST** be provided with overcurrent protection. Governing codes may require this to be fuses **ONLY** or circuit breakers.

For blower cabinets without heaters, a 15 amp circuit may be used.

No Heat Kit Installation

If electric heat is not used, install accessory No Heat Kit.

- 1. Locate adapter and filler plates, with screws inside package.
- 2. Attach adapter plate and filler plate to bracket if required to match cabinet, Refer to Figure 8.
- 3. Secure the No Heat Kit accessory with four screws.
- 4. Connect the plug from No Heat Kit wiring into the receptacle on the control board on the side of the cabinet.

CAUTION

Do not attempt to force plug as it only fits one way.

Line Voltage Connections

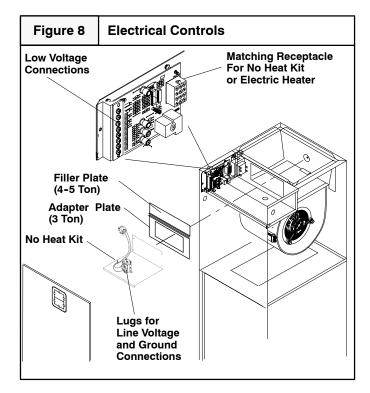
Line voltage wiring may be brought into the unit through the top right-hand corner or the right-hand side panel. The correct hole size required by the conduit fitting must be punched at the pilot hole location. Plug the unused pilot hole with a hole plug (supplied with unit). Connect field wiring to appropriate terminals on electric heater or lugs on the No Heat Kit. All line voltage connections must be made with copper wire.

Line Voltage Connection

- 1. Provide line voltage power supply (208V-240V) from a separate circuit(s). Size per table or table in heater manual.
- 2. Connect line voltage to the lugs on the No Heat Kit., or to circuit breakers or wire leads from heaters. Refer to **Figure 8** and wiring diagram.

Grounding Connection

Use a copper conductor(s) from the ground lug on the No Heat Kit or ground lugs on the electric heater to a grounded connection in the electric service panel or a properly driven and electrically grounded ground rod.



| | | | | | | | Maximum | Recommended | | | | |
|-------|--------------|-------|---------|---------|-------|----------|-------------|-------------------------------|------|-------------|-----|------|
| | | | | | | | Overcurrent | Supply Wire | | | | |
| | | | Supply | Maximum | | Branch | Protective | 75 ⁰ C. Copper Gro | | Gro | und | |
| | Supply Circu | uit | Circuit | Motor | Total | Circuit | Device | | | Max. | Wi | re |
| Volts | Phase | Hertz | No. | AMPS. | AMPS. | Ampacity | (AMPS.) | No. | Size | Length (Ft) | No. | Size |
| 240 | 1 | 60 | Single | 6.0 | 6.0 | 7.5 | 15 | 2 | 14 | 104 | 1 | 14 |
| 208 | 1 | 60 | Single | 6.0 | 6.0 | 7.5 | 15 | 2 | 14 | 90 | 1 | 14 |

Low Voltage Control Connections

The 24 volt power supply is provided by an internally wired low voltage transformer which is standard on all models. If power supply is 208 volt, the low voltage transformer must be rewired to the 208 volt tap. See the unit wiring label.

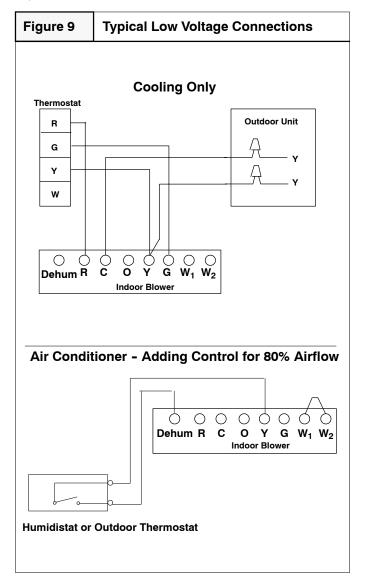
Field supplied low voltage wiring can enter the unit on the top left hand corner* or the left hand side panel. When using the left hand side panel entrance, the low voltage wiring must be fed through the entrance hole in the bottom of the blower deck into the control area.

Install the strain relief bushing (supplied with unit) in the selected hole and a hole plug (supplied with unit) in the unused hole.

Connect the field wiring at the screw terminals of the control board. Refer to **Figure 9**.

Keep the low voltage wiring as short as possible inside the control box.

Complete connections between indoor blower, outdoor section, indoor thermostat and electronic outdoor thermostat (accessory) according to instruction provided with the Condenser Installation Instructions or those provided with the accessory and refer to **Figure 9**.



Adjusting Thermostat Anticipator

Set the heat anticipator of the thermostat to the proper value. See instructions provided with the thermostat before making this adjustment.

| Heater Size - KW | Anticipator Setting |
|------------------|---------------------|
| 05 | .24 |
| 07, 10 | .32 |

Adding Humidistat or Outdoor Thermostat

Adding a humidistat or outdoor thermostat allows the airflow to be reduced to 80% of normal allowing greater humidity control. Humidistats are preferred but an outdoor thermostat can be used but can only be set based on temperature. Suggested starting point is 85 F, but this will vary depending on several factors.

The control must be wired differently on air conditioners and heat pumps. On air conditioners connect to Y and Dehum terminals, ref **Figure 10**.

HEAT PUMPS ONLY: Heat pumps must use only the outdoor thermostat, because it is powered instead of just performing a switching function. This allows it to be out of the circuit when continuous circulation is desired, which is required for the system to operate on Fan Only for circulation, which is 60% airflow. On heat pumps connect to Y and Dehum terminals, and C and O to power the outdoor thermostat. ref **Figure 10**.

Electric Heater Staging

The heater elements are turned on in increments. Refer to Heater Staging Table in the Heater Installation Manual. In addition on heaters larger than 5KW, the heat can be staged (1st & 2nd) either through an indoor thermostat or by using an outdoor thermostat. This satisfies staging requirements imposed by some electric utilities on heaters larger than 6 kilowatts.

A control signal (24V) from W1 on the Indoor T'stat to W1 on the control board energizes the 1st stage of heat. A control signal (24V) to W2 on the control board energizes the second stage of electric heat. To turn ON both stages at the same time, using one control signal, W1 and W2 are jumpered together.

If the indoor thermostat does not have staging capabilities, accessory electronic outdoor thermostats are available that will control two stages of electric heat.

Motor Speeds and Airflow

See Figure 9 and Page 8.

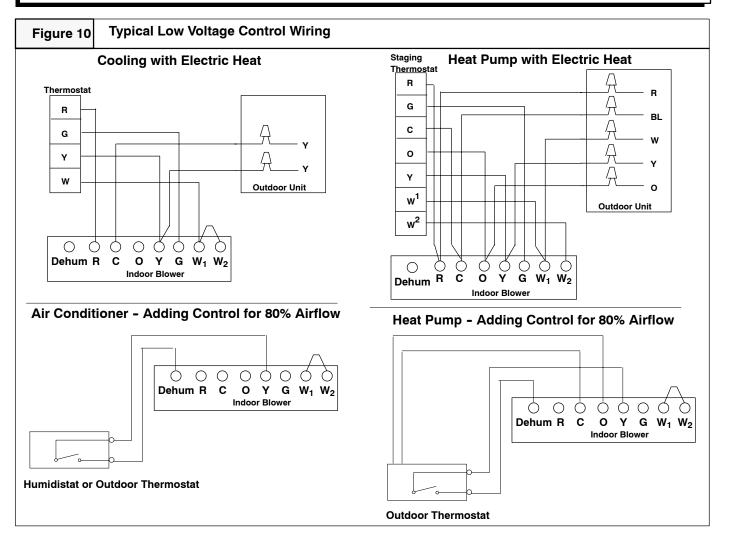
The motor speed can be set on one of eight speeds and the air flow will adjust between 60%, 80% and 100% depending on settings. Time ON / OFF settings can also be adjusted.

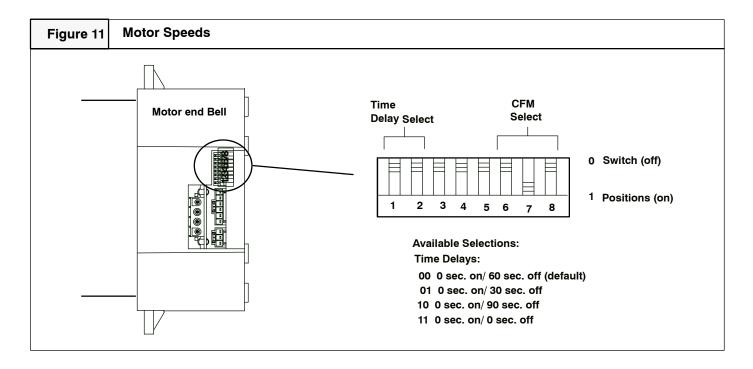
Determine coil static pressure drop, consult coil manual and measure duct system static pressure, then determine required speed setting from blower charts.

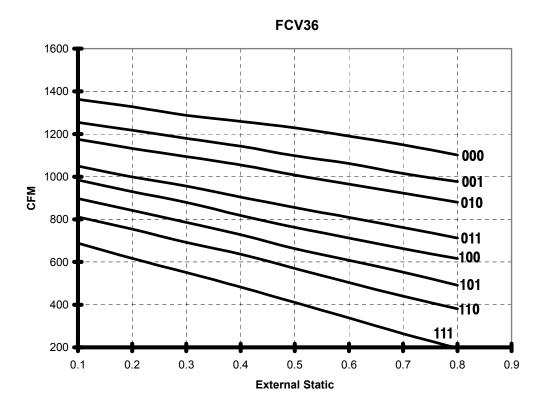
Set switches 6, 7, and 8 on the motor end bell to position 0 (off) or 1 (on) as specified on blower charts.

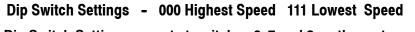
Set switches 1 and 2 to position 0 (off) or 1 (on) as specified in Figure 9 to control Fan delay ON – OFF.

NOTE: Power must be completely OFF to unit any time switch settings are changed or settings will not take effect.

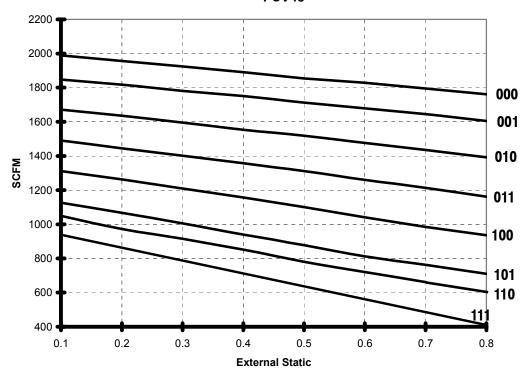




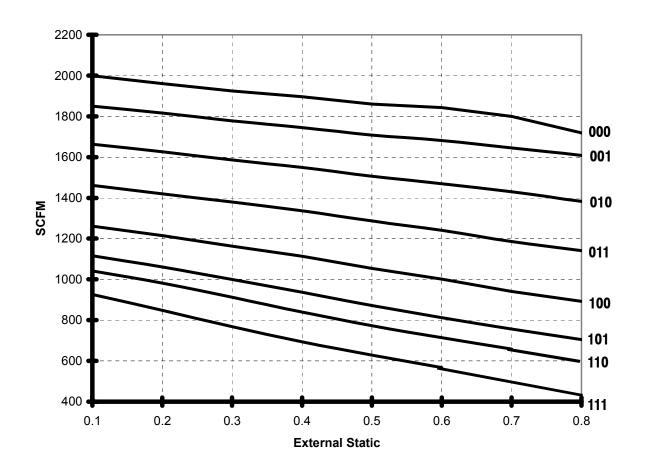




Dip Switch Settings are set at switches 6, 7 and 8 on the motor end bell. "0" is OFF Position, "1" is ON Position



FCV48



FCV60

Dip Switch Settings - 000 Highest Speed 111 Lowest Speed

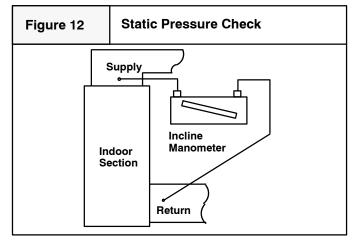
Dip Switch Settings are set at switches 6, 7 and 8 on the motor end bell. "0" is OFF Position, "1" is ON Position

| FILTER STATIC PRESSURE DROP* | | | | | | | | | | |
|------------------------------|---|-------------|-----|-----|------|------|------|------|------|------|
| | *WASHABLE | DISPOSABLE | | | | CFN | Л | | | |
| MODEL | FILTER SIZE | FILTER SIZE | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| FCV36 | 17 ³ / ₄ X 20 ¹ / ₄ | 18 X 20 | | | 0.09 | 0.12 | 0.17 | 0.22 | | |
| FCV48 / FCV60 | 24 ³ / ₄ X 20 ¹ / ₄ | 25 X 20 | | | | | 0.09 | 0.11 | 0.14 | 0.18 |

Air Flow Check

For proper system operation, the air flow through the indoor coil should be between 350 and 450 cfm per ton of cooling capacity. The air flow through the unit can be determined by measuring the external static pressure to the unit and selecting the motor speed tap that will most closely provide the required air flow.

- 1. Set up to measure external static pressure at the supply and return duct connections (Figure12).
- 2. Drill holes in the ducts for pressure taps, pitot tubes, or other accurate pressure sensing devices.



- 3. Connect these taps to a level inclined manometer or draft gauge.
- 4. Ensure the coil and filter are clean, and all the registers are open.
- 5. Determine the external static pressure with the blower operating.
- 6. Refer to the Air Flow Data tables, page 8 to find the Dip Switch Speed setting that will most closely provide the required air flow for the system.
- 7. Refer to Motor Speeds and Airflow in these instructions if the speed is to be changed.
- 8. Recheck the external static pressure with the new setting, and confirm speed switch selection.

Temperature Rise Check

Temperature rise is the difference between the supply and return air temperatures.

NOTE: The temperature rise can be adjusted by changing the heating speed tap at the unit's blower terminal block.

A temperature rise greater than 60 $^{0}\mathrm{F}$ (33.3 $^{0}\mathrm{C})$ is not recommended.

- 1. To check the temperature rise through the unit, place thermometers in the supply and return air ducts as close to the unit as possible.
- 2. Open ALL registers and duct dampers.
- 3. Set thermostat Heat-Cool selector to HEAT.
- 4. Set the thermostat temperature setting as high as it will go.
- 5. Turn electric power ON.
- 6. Operate unit **AT LEAST** 5 minutes, then check temperature rise.
- NOTE: The maximum outlet air temperature for all models is 200 °F (93.3 °C).
 - 7. Set thermostat to normal temperature setting.
 - 8. Turn electric power OFF.
 - 9. Be sure to seal all holes in ducts if any were created during this process.

Maintenance

Filters

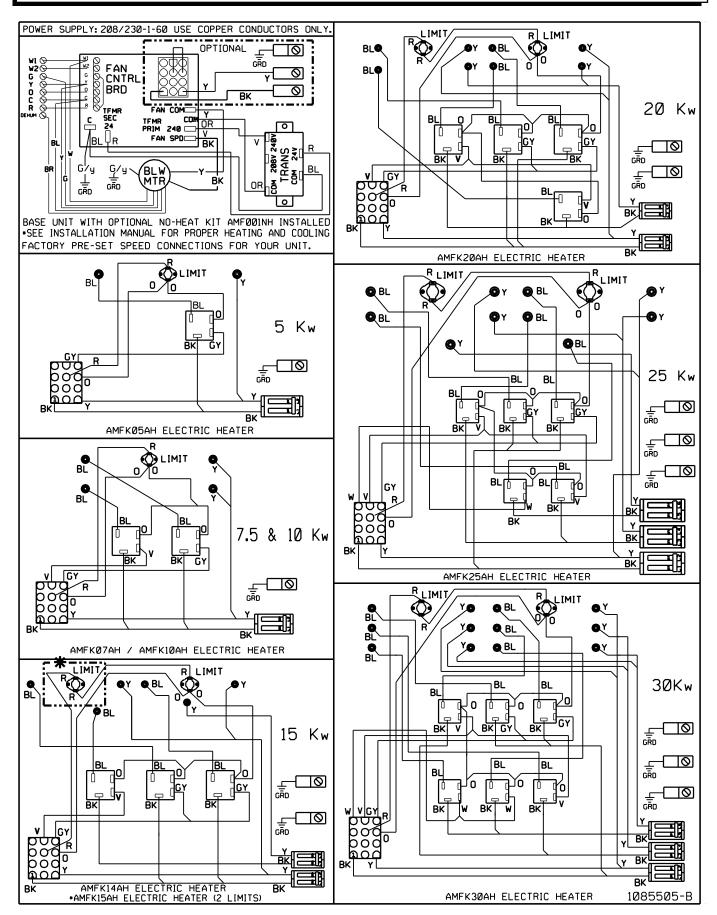
Filters must be cleaned when they become dirty. Inspect at least once per month. The frequency of cleaning depends upon the hours of operation and the local atmospheric conditions. Clean filters keep unit efficiency high.

Lubrication

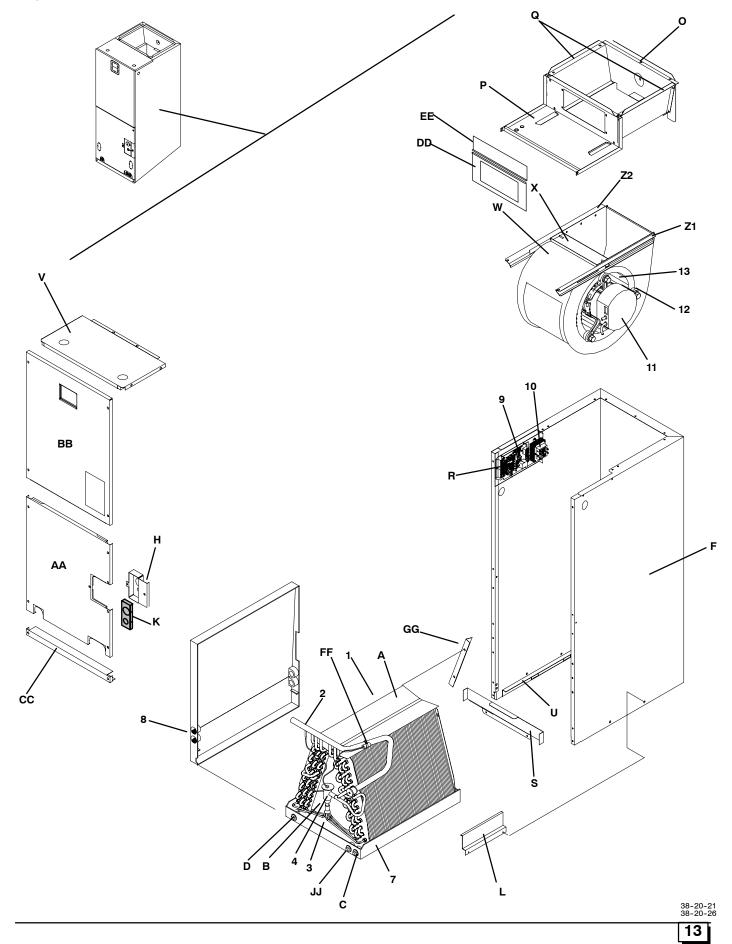
The bearings of the blower motor are permanently lubricated.

Condensate Drains

During the cooling season check the condensate drain lines to be sure that condensate is flowing from the primary drain but not from the secondary drain. If condensate ever flows from the secondary drain the unit should be promptly shut off and the condensate pan and drains cleaned to insure a free flowing primary drain.



Replacemaent Parts



Installation Instructions

| KEY NO. | DESCRIPTION | PART NUMBER | FCV3600A1 | FCV4800A1 | FCV6000A1 |
|-------------|-----------------------|----------------|-----------|-----------|-----------|
| 1 | Coil, Evap EXA36F19A1 | ***** | 1 | | |
| 1 | EXA48N26A1 | ****** | * | 1 | |
| 1 | EXA60N26A1 | ***** | * | * | 1 |
| 2 | Manifold, Evaporator | 1083253 | 1 | | |
| 2 | | 1083310 | * | 1 | |
| 2 2 3 | | 1083258 | * | * | 1 |
| 3 | Distributor | 1062727 | 1 | 1 | 1 |
| 4 | Valve, Expansion | 1082871 | 1 | | |
| 4 | | 1082873 | * | 1 | |
| 4 | | 1082856 | * | * | 1 |
| 6 | Distributor Assembly | ***** | | | |
| 7 | Pan, Drain, 19" | 1082776 | 1 | | |
| 7 | 26" | 1085353 | * | 1 | 1 |
| 8 | Pan, Drain Horizontal | 1082619 | 1 | | |
| 8 | | 1082621 | * | 1 | 1 |
| 9 | Control, Fan Timer | 1082700 | 1 | 1 | 1 |
| 10 | Transformer | 1082611 | 1 | 1 | 1 |
| 11 | Motor, Blower | 1085510 | 1 | | |
| 11 | | 1085511 | * | 1 | 1 |
| 12 | Mount, Blower Motor | 1095236 | 1 | | |
| 12 | | 1004905 | * | 1 | 1 |
| 13 | Wheel, Blower | 600587 | 1 | | |
| 13 | | 96839 | * | 1 | 1 |
| 15 | Harness, Wire | 1085821 | 1 | 1 | 1 |

| A Baffle, Top 1082955 1 1 A 1082956 * * B Plate, Triangular 1082924 2 B 1082782 * 2 C Plug, Drain Pan 1082965 1 1 F Wrapper 1082825 1 1 F Plate, Tubing 1085601 1 1 H Plate, Tubing Plate 1085603 1 1 K Grommet, Tubing Plate 1085602 * 1 L Bracket, Coil Hold Down 1082602 1 1 | 1 2 4 1 1 1 1 |
|---|---------------------------------|
| B Plate, Triangular 1082924 2 B 1082782 * 2 C Plug, Drain Pan 1083241 4 4 D Plug, Drain Pan 1082965 1 1 F Wrapper 1082825 1 1 F Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 1 K 1085602 * 1 | 2 4 1 1 1 |
| B 1082782 * 2 C Plug, Drain Pan 1083241 4 4 D Plug, Drain Pan 1082965 1 1 F Wrapper 1082825 1 1 F 1082827 * 1 H Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 1 K 1085602 * 1 | 4 1 1 1 |
| B 1082782 2 C Plug, Drain Pan 1083241 4 4 D Plug, Drain Pan 1082965 1 1 F Wrapper 1082825 1 1 F 1082827 * 1 H Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 1 K 1085602 * 1 | 4 1 1 1 |
| D Plug, Drain Pan 1082965 1 1 F Wrapper 1082825 1 F 1082827 * 1 H Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 1 K 1085602 * 1 | 1 1 1 |
| F Wrapper 1082825 1 F 1082827 * 1 H Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 1 K 1085602 * 1 | 1 1 1 |
| F 1082827 * 1 H Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 K 1085602 * 1 | 1 1 |
| F 1002027 1 H Plate, Tubing 1085601 1 1 K Grommet, Tubing Plate 1085603 1 K 1085602 * 1 | 1 1 |
| K Grommet, Tubing Plate 1085603 1 K 1085602 * 1 | 1 |
| K 1085602 * 1 | |
| N 1000002 1 | |
| L Bracket, Coil Hold Down 1082602 1 1 | 1 |
| | |
| O Panel, Rear Blower Deck 1082844 1 | |
| 0 1082846 1 | 1 |
| P Panel, Front Blower Deck 1085372 1 | |
| F 1063374 1 | 1 |
| Q Panel,Side Blower Deck 1082847 2 | ~ |
| 002049 2 | 2 |
| R Bracket, Control Fan 1085371 1 1 | 1 |
| S Bracket, Drain Pan 1082927 1 S 1082929 * 1 | |
| S 1082929 * 1 V Panel, Top 1082835 1 | 1 |
| V Panel, Top 1082835 1 V 1082837 * 1 | 1 |
| | ' |
| W Housing, Blower 1085578 1 W 1085579 * 1 | 1 |
| X Panel, Blower Cutoff 1083579 | ' |
| X 1082949 * 1 | 1 |
| Z1 Rail, Blower R.H. 1085504 1 1 | 1 |
| Z2 Rail, Blower L.H. 1085521 1 1 | 1 |
| AA Door, Coil Access 1085190 1 | |
| AA 1085192 * 1 | 1 |
| BB Door, Blower Access 1082838 1 | - |
| BB 1082840 * 1 | 1 |
| CC Door, Filter Access 1085195 1 | - |
| CC 1085197 * 1 | 1 |
| DD Plate, Heater Adapter 1084606 1 1 | 1 |
| EE Plate, Heater Filler 1084608 * 1 | 1 |
| FF Clamp. Tube 1063118 1 1 | 1 |
| GG Shield, Condensate 1083333 2 2 | 2 |
| JJ Adapter, Male (Drain) 1085010 1 1 | 1 |
|)(Manual, Installation 49601410500 1 1 | 1 |

Fan Coils