

INSTALLATION INSTRUCTIONS

DOWNFLOW COIL BRACKET KIT

FOR FAN COILS

EBAC01DFS, EBAC02DFA

NOTE: Read the entire instruction manual before starting the installation.

SAFETY CONSIDERATIONS

Installing, starting up, and servicing air-conditioning equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.).

Only trained, qualified installers and service mechanics should install, start-up, and service this equipment.

Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel.

When working on the equipment, observe precautions in the literature and on tags, stickers, and labels attached to the equipment.

Follow all safety codes. Wear safety glasses and work gloves. Keep quenching cloth and fire extinguisher nearby when brazing. Use care in handling, rigging, and setting bulky equipment.

Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and National Electrical Code (NEC) for special requirements. In Canada, refer to current editions of the Canadian Electrical Code, CSA 22.1.

Recognize safety information. This is the safety-alert symbol

⚠. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.



WARNING

FIRE, EXPLOSION, ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury, death and/or property damage.

The ability to properly perform maintenance on this equipment requires certain knowledge, mechanical skills, tools, and equipment. If you do not possess these, do not attempt to perform any maintenance on this equipment.

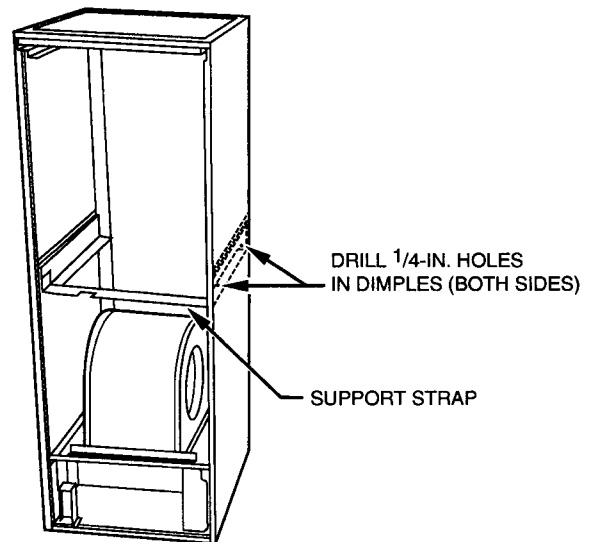


WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position and install a lockout tag. There may be more than one electrical supply to the fan coil. Check accessories and cooling unit for additional electrical supplies that must be shut off during fan coil servicing. Lockout and tag switch with a suitable warning label. Verify proper operation after servicing.



A-COIL

A98437

Fig. 1—Downflow A-Coil Brackets and Support Strap Location



CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate clothing, safety glasses and gloves when handling parts and servicing fan coil.

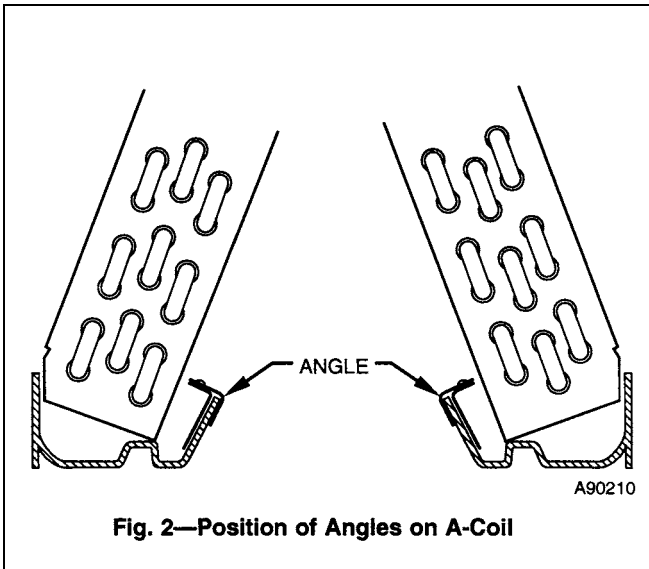


Fig. 2—Position of Angles on A-Coil

INTRODUCTION

Fan coils are factory–shipped for upflow or horizontal–left applications. This instruction covers the installation of downflow conversion kit on models FVM, FCM, FEM, FSM, FSU, EBP, EBX, EBW, EBV, WAH, WAP, WAX fan coils. The kit provides a means of installing fan coils in a downflow position.

DESCRIPTION AND USAGE

The downflow conversion kits are available for use on slope and A–coil versions of previously mentioned fan coils. When installed, the kit will provide proper condensate water drainage, as well as a means of supporting the coil. See unit Installation Instructions for proper kit part numbers.

The downflow conversion for slope units requires the following items:

| Description | Quantity |
|--------------|----------|
| Coil Bracket | 1 |
| Coil Baffle | 1 |
| Screws | 2 |
| Foam Gasket | 1 |

The downflow conversion for A–coil units requires the following items:

| Description | Quantity |
|---------------------|----------|
| Coil Bracket | 2 |
| Support Strap * | 4 |
| Drainage Hole Plugs | 2 |
| Angle | 2 |
| Screws | 4 |
| Gasket | 2 |
| Air Seal | 1 |

* Only 1 of appropriate width required.

NOTE: The fan coils are factory shipped for upflow or horizontal–left applications. Installation of the Downflow

Conversion Kit should be complete before the fan coil unit is positioned to ensure side access required for installation of the coil brackets.

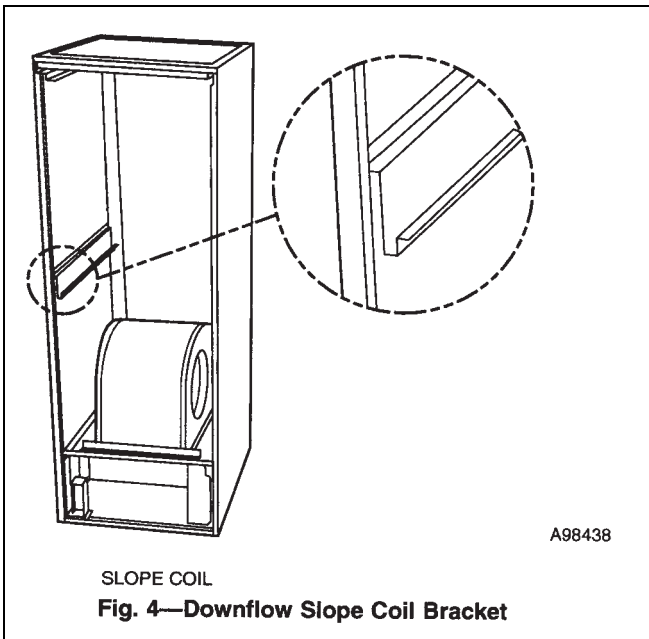
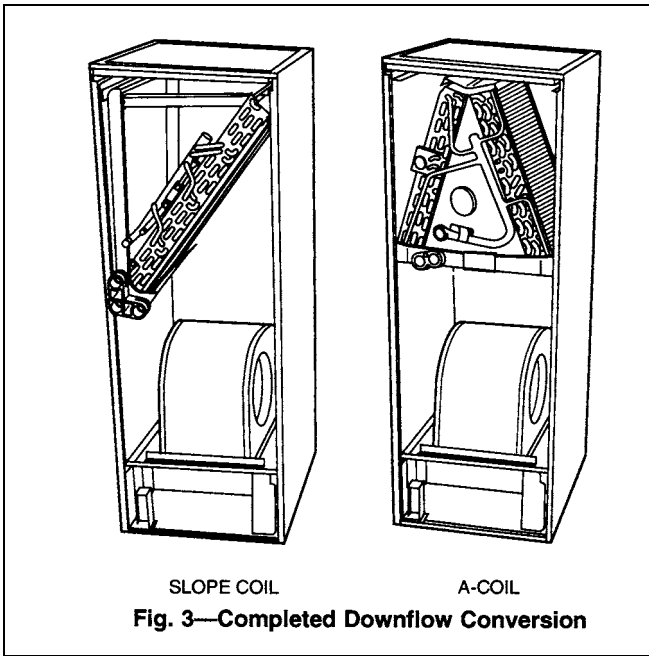
NOTE: If unit has electric heat with a circuit breaker, refer to electric heater Installation Instructions for repositioning of breaker assembly.

INSTALLATION– A-COIL UNITS ONLY

1. Remove all panels and expose blower and coil areas.
2. Remove any shipping clips securing coil.
3. Remove complete coil/drain pan assembly.
4. Remove and discard horizontal drain pan from coil assembly.
5. Drill four 1/4–in. holes (2 on each side) in fan coil casing at dimples provided. (See Fig. 1.)
6. Secure coil brackets (provided in kit) to casing sides. (See Fig. 1.)
7. Install support strap (provided in kit) across front of unit as follows:
 - a. Position flange on each end of strap between coil bracket and casing insulation. (See Fig. 1.)
 - b. Secure support strap ends to coil brackets. (See Fig. 1.)
8. Remove and discard 4 clips (on corners of coil) securing coil assembly to rails for upflow applications.
9. Remove and discard factory–shipped air seal and drain tube assembly. Install 1–piece sheet metal air seal assembly provided with kit.
10. Tilt coil assembly back and slide angles (provided in kit) over each inside wall of condensate pan. Pop–riveted flange of angles should extend toward coil. (See Fig. 2.)
11. With fan coil in downflow position, slide coil assembly into unit. (See Fig. 3.)
12. Reinstall all panels. Align holes in panels with tubing and condensate connections. Casing was designed to allow 180 degree rotation of coil access panel and fitting panel.
13. Install 2 plugs that have been provided onto doors to seal unit.

INSTALLATION– SLOPE COIL UNITS ONLY

1. Remove all panels and expose blower and coil areas.
2. Remove screw securing coil assembly to right side flange. Remove complete coil/drain pan assembly.
3. Drill two 1/4–in. holes in right side of casing at dimples provided (unit in upflow position).
4. Place fan coil unit in downflow position.
5. Secure coil bracket to left side of casing with 2 screws provided. (See Fig. 4.)
 - a. Remove top coil bracket from coil (2 screws).
 - b. Align holes in gasket with holes in top coil bracket.
 - c. Remove only half of the backing from the gasket.
 - d. Apply exposed half of foam gasket to under side of top coil bracket. (See Fig. 5.)
 - e. Remove remaining piece of backing from gasket and press gasket into place.
 - f. Replace top bracket onto coil. The 2 screws must engage the lanced holes.



6. Install remaining coil baffle at coil end opposite the coil headers. (See Fig. 6.)
 - a. Slide the longer flange of baffle between tube sheet and end of condensate pan. Be sure notch in baffle is fully seated below notch in tube sheet.

NOTE: The TXV sensing bulb must be insulated on slope coils in horizontal right and downflow applications. Failure to insulate bulb will result in performance loss.

7. Insulate TXV sensing bulb with cork tape or other permanent insulating material.
8. Invert coil assembly and slide it into unit with drain pan to left side of fan coil. Secure coil assembly with screws. (See Fig. 3.)
9. Reinstall fitting panel, blower panel, and coil access panel. Align holes in panels with tubing and condensate connections.

