Installation Instructions

Horizontal Drain Pan Kit
for EBP, EBW, FSU Series Fan Coils
EBAC (01 – 06) DPK

These instructions must be read and understood completely before attempting installation.

Safety Labeling and Signal Words

DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER, WARNING, CAUTION,** and **NOTE** 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 **WARNING**, **CAUTION,** and **NOTE** 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 **may** result in minor personal injury or product or property damage.

NOTE – Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

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

Signal Words on Product Labeling

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

⚠ WARNING

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

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

Installation or repairs made by unqualified persons could result in equipment malfunction, property damage, personal injury and/or death.

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.

Installation must conform with local building codes and with the National Electrical Code NFPA70 current edition.

All units must have the horizontal drain pan kit installed for either left or right hand applications

⚠ CAUTION

PROPERTY DAMAGE HAZARD

Failure to follow this caution may result in property damage.

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

Kit Number	Use with Models
EBAC01DPK	FSU18 / EB*18, 24
EBAC02DPK	FSU24, 30 / EB*30, 36
EBAC03DPK	FSU36 / EB*42
EBAC04DPK	FSU42 / EB*48
EBAC05DPK	FSU48 / EB*60
EBAC06DPK	FSU60

Figure 1	Drain Pan Kit

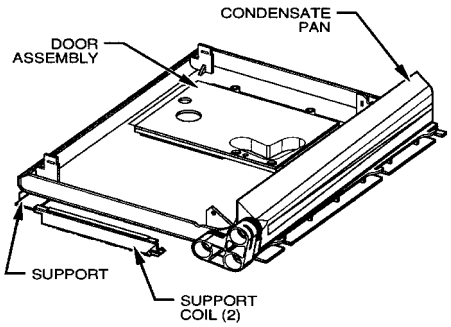

Fig. 1—Drain Pan Kit

INSTALLATION / SLOPE COILS

If it is determined that the system does not have leaks, and the refrigerant is not contaminated, proceed as follows:

1. Recover system refrigerant.
   a. Attach gage/manifold set to service valves.
   b. Start unit in cooling mode.
   c. Front seat (close) liquid line service valve.
   d. Operate unit until vapor pressure reaches 5 psig (35kPa).
   e. Turn off electrical supply to outdoor unit.
   f. Front seat (close) vapor service valve.
   g. Recover any remaining refrigerant.

NOTE: All condenser coils hold only a factory-supplied amount of refrigerant. Excess refrigerant, such as in long-line applications, may cause compressor internal pressure relief valve to open (indicated by sudden rise in vapor pressure) before vapor pressure reaches 5 psig (35kPa). If this occurs, turn off electrical supply to outdoor unit immediately, front seat (close) vapor service valve, and recover any remaining refrigerant.

2. Turn off electrical supply to indoor unit.
3. Disconnect condensate drain line.

⚠ WARNING

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

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

Do not use torch to remove components. Oil may catch fire causing personal injury or death. Use tubing cutter.

4. Disconnect liquid and vapor lines from indoor coil (use a tubing cutter to cut the lines).
5. Remove coil access blower and fitting panels.
6. Remove one (1) screw securing coil to unit casing.
7. Remove coil/pan assembly from unit.
8. Place assembly on a flat surface. Remove 2 screws securing coil support columns to pan. (**Refer to Figure 2**)
9. Rotate columns 90 degrees, pull away from coil, and remove columns from assembly.
10. Remove remaining two (2) screws securing coil to condensate pan.
11. Remove coil from condensate pan.
12. Discard old drain pan and supports
13. Remove kit from carton.
14. Snap metal pan support (ski) into bottom of drain pan.
15. Slide coil into pan assemble.
16. Snap in supports.
17. Secure coil to pan with two (2) sheet metal screws.
18. Re-install coil/pan assembly into unit casing.
19. Secure with one (1) screw into unit casing.
20. Install new fitting panel.
21. Replace coil access blower panels.
22. Reconnect liquid and vapor refrigerant lines and condensate drain line. Install filter drier(s) if necessary.

NOTE: If a torch is used to unbraze the line set, protect the fitting panel with a wet cloth or braze shield as necessary.

23. Evacuate line set and indoor coil.
24. Back seat (open) liquid and vapor service valves.
25. Turn on electrical supplies to indoor and outdoor units.
26. Check system refrigerant charge and operation.

INSTALLATION / A-COIL HORIZONTAL LEFT

Refer to Figure 3

If it is determined that the system does not have leaks, and the refrigerant is not contaminated, proceed as follows:

1. Recover system refrigerant.
   a. Attach gage/manifold set to service valves.
   b. Start unit in cooling mode.
   c. Front seat (close) liquid line service valve.
   d. Operate unit until vapor pressure reaches 5 psig (35kPa).
   e. Turn off electrical supply to outdoor unit.
   f. Front seat (close) vapor service valve.
   g. Recover any remaining refrigerant.

NOTE: All condenser coils hold only a factory-supplied amount of refrigerant. Excess refrigerant, such as in long-line applications, may cause compressor internal pressure relief valve to open (indicated by sudden rise in vapor pressure) before vapor pressure reaches 5 psig (35kPa). If this occurs, turn off electrical supply to outdoor unit immediately, front seat (close) vapor service valve, and recover any remaining refrigerant.

2. Turn off electrical supply to indoor unit.
3. Disconnect condensate drain line.

⚠ WARNING

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

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

Do not use torch to remove components. Oil may catch fire causing personal injury or death. Use tubing cutter.

4. Disconnect liquid and vapor lines from indoor coil (use a tubing cutter to cut the lines).
5. Remove coil access blower and fitting panels, filter and filter door.
6. Remove coil retaining clips.
7. Remove coil/pan assembly from unit.
8. Place assembly on a flat surface in the vertical position facing liquid and suction lines.
9. Remove kit from carton.
10. Remove existing condensate trough from A-coil and install on opposite side of A-coil
11. Add drain tube to left drainport on airsplitter
12. Set coil into pan assembly with pan drains facing out.
13. Re-install coil/pan assembly into unit casing.
14. Re-secure coil with retaining clips.
15. Install fitting panel.
16. Replace coil access blower panels and filter door.
17. Reconnect liquid and vapor refrigerant lines and condensate drain line. Install filter drier(s) if necessary.

NOTE: If a torch is used to unbraze the line set, protect the fitting panel with a wet cloth or braze shield as necessary.

18. Evacuate line set and indoor coil.
19. Back seat (open) liquid and vapor service valves.
20. Turn on electrical supplies to indoor and outdoor units.
21. Check system refrigerant charge and operation.

INSTALLATION / A-COIL HORIZONTAL RIGHT

Refer to Figure 3

If it is determined that the system does not have leaks, and the refrigerant is not contaminated, proceed as follows:

1. Recover system refrigerant.
   a. Attach gage/manifold set to service valves.
   b. Start unit in cooling mode.
   c. Front seat (close) liquid line service valve.
   d. Operate unit until vapor pressure reaches 5 psig (35kPa).
   e. Turn off electrical supply to outdoor unit.
   f. Front seat (close) vapor service valve.
   g. Recover any remaining refrigerant.

NOTE: All condenser coils hold only a factory-supplied amount of refrigerant. Excess refrigerant, such as in long-line applications, may cause compressor internal pressure relief valve to open (indicated by sudden rise in vapor pressure) before vapor pressure reaches 5 psig (35kPa). If this occurs, turn off electrical supply to outdoor unit immediately, front seat (close) vapor service valve, and recover any remaining refrigerant.

2. Turn off electrical supply to indoor unit.
3. Disconnect condensate drain line.

⚠ WARNING

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

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

Do not use torch to remove components. Oil may catch fire causing personal injury or death. Use tubing cutter.

4. Disconnect liquid and vapor lines from indoor coil (use a tubing cutter to cut the lines).
5. Remove coil access blower and fitting panels, filter and filter door.
6. Remove coil retaining clips.
7. Remove coil/pan assembly from unit.
8. Place assembly on a flat surface in the vertical position facing liquid and suction lines.
9. Remove kit from carton.
10. Remove existing condensate trough from A-coil and install on opposite side of A-coil
11. Remove air seal and filler plate and rotate 180 degrees and reattach.
12. Reattach air seal / splitter plate assembly to A-Coil.
13. Add drain tube to right drainport on airsplitter
14. Lay unit cabinet on it's right side on a flat surface.
15. Set coil into pan assembly with pan drains facing out.
16. Re-install coil/pan assembly into unit casing.
17. Re-secure coil with retaining clips.
18. Install fitting panel (Remove hole covers on door for drain pan access).
19. Replace coil access blower panels and filter door.
20. Reconnect liquid and vapor refrigerant lines and condensate drain line. Install filter drier(s) if necessary.

NOTE: If a torch is used to unbraze the line set, protect the fitting panel with a wet cloth or braze shield as necessary.

21. Evacuate line set and indoor coil.
22. Back seat (open) liquid and vapor service valves.
23. Turn on electrical supplies to indoor and outdoor units.
24. Check system refrigerant charge and operation.

Figure 2 **Slope Coil – Horizontal Installation**

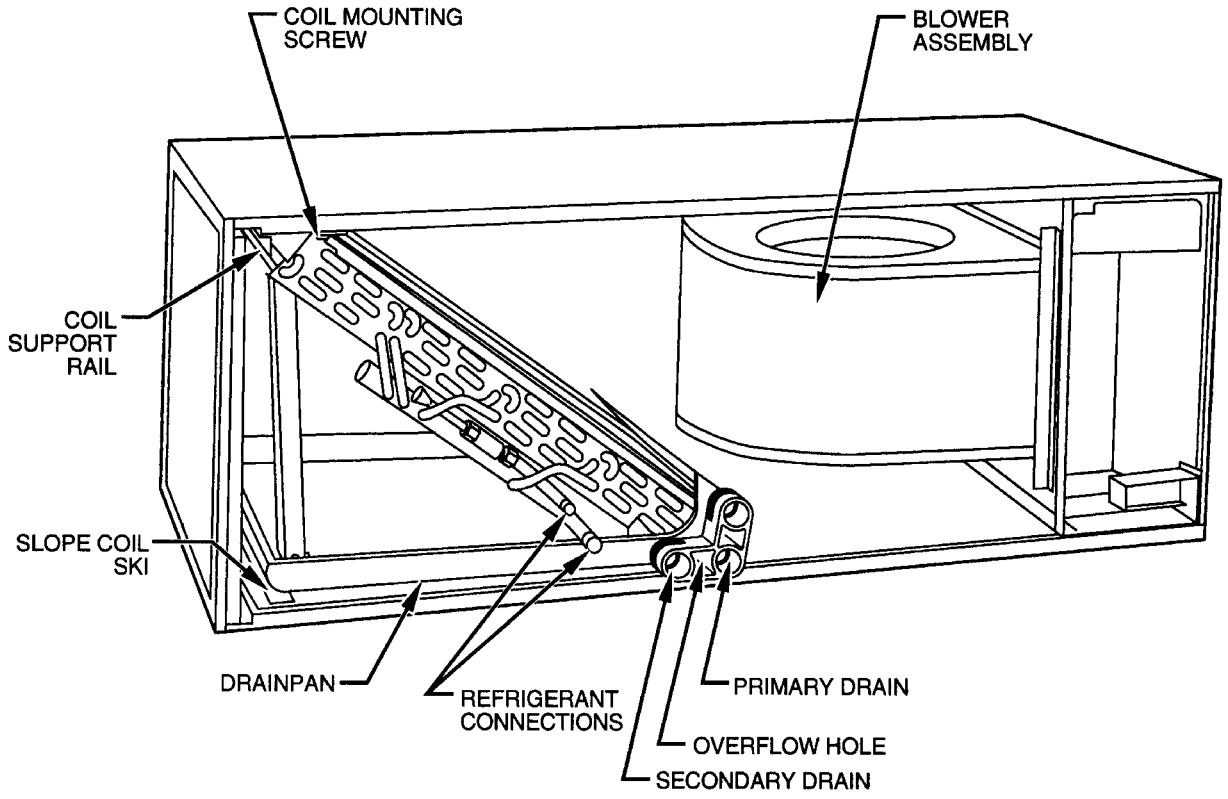

Figure 3 **A Coil – Horizontal Installation (Left or Right)**