COPPER TO ALUMINUM EVAPORATOR COIL REPLACEMENT "H" MODEL PACKAGE UNITS INSTALLATION INSTRUCTIONS

Attention Installing Personnel

As a professional installer, you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair, it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

⚠ WARNING

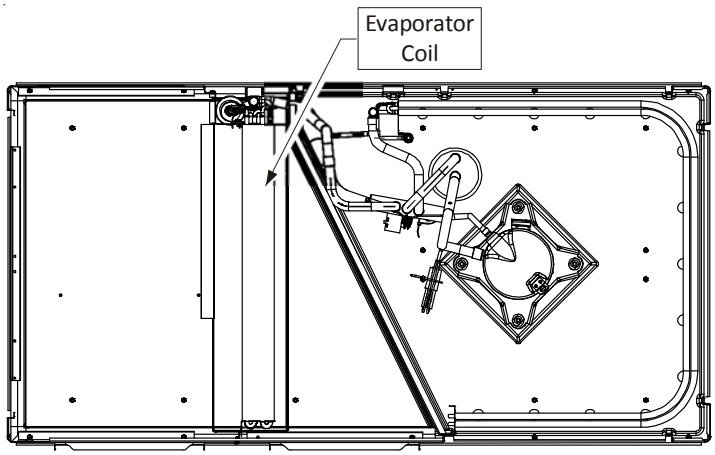
HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

NOTE: THE PISTON FROM THE EXISTING COIL SHOULD BE USED WHEN REPLACING THE NEW COIL.

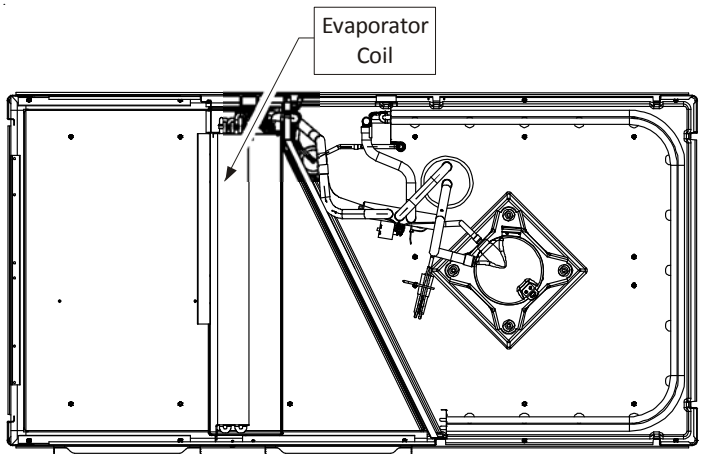
Installation Instructions

1. Disconnect line and low voltage power. Confirm with an electrical tester that there is no voltage present.
2. To gain access to the evaporator coil, remove the access and top panel(s) on the unit.
3. Recover all refrigerant from the unit in accordance with EPA regulations.
4. Coil Removal
   1. Identify the coil location for your unit.



Units with Date Code Before 1502

Figure 1 A



Units with Date Code of 1502 and Newer

Figure 1 B

For units with date code of 1502 and newer

A. It is not necessary to remove the front and back filler plates.

B. Remove the single screw located on the top back left of the coil which secures it to the back filler plate as shown in Figure 2 Note A.

C. Remove the five screws located on the front right of the coil which secures it to the front filler plate as shown in Figure 3 Note A.

For units with date code before 1502

A. Both the front and back filler plates need to be used to move the coil into position as shown in Figure 1 B.

B. Remove the three screws located between the supply and return air openings of the unit which secure the back block off plate as shown in Figure 2 Note B.

C. Remove the three screws located on the right side panel which secure the front block off plate as shown in Figure 3 Note B.

D. Attach the new front and rear block off plates, provided with the kit, and secure them to the new coil.

E. Add a gasket to the edge of the front plate in the location shown in Figure 3.

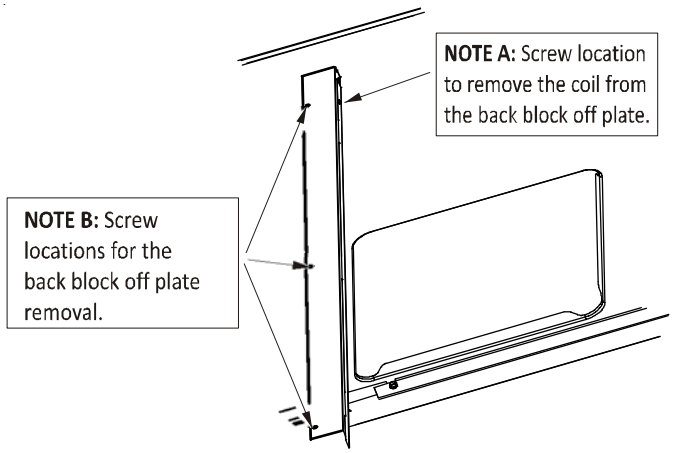


Figure 2

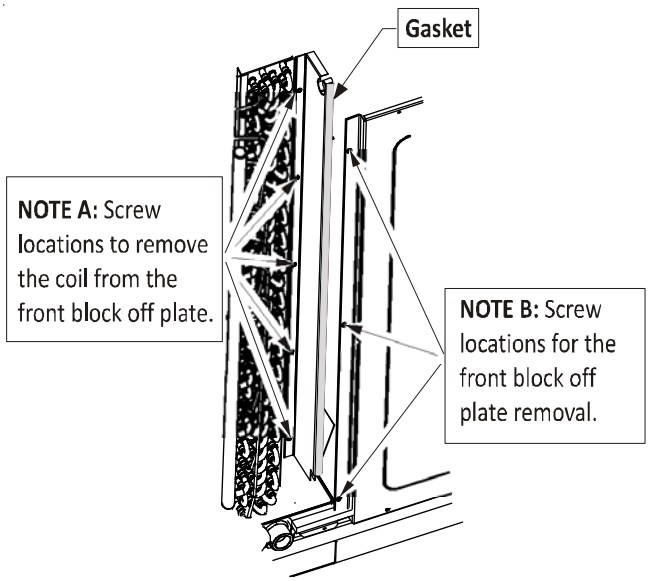


Figure 3

5. If you are replacing an existing aluminium coil proceed to Step 8.

6. As you can see in the following pictures, some re-piping is necessary. Cut the copper tubing in the area as shown in Figure 4.

Figure 4

7. Once the new aluminum evaporator coil is installed, use a swaging tool or couplings and reinsert the tubing. Make sure to turn it to the desired position needed to reconnect it as shown in Figure 5. Take care not to kink the tubing.

   Note: It will also be necessary to replace the filter drier with this sealed system repair of the unit.

Figure 5

8. Clean the joint area of any visible excess oil and or dirt. A clean cloth should be sufficient to remove the excess oil or dirt. Use heat paste or a wet rag to protect the plastic covering where the aluminum/copper connection meet.

9. Apply heat to the joint area with the torch and apply the braze alloy to complete the joint.

   Brazing Materials - Copper to Copper Joints:

   Sil-Fos used without flux (alloy of 15% silver, 80% copper, and 5% phosphorous). Recommended heat 1400°F.

10. Allow the joint to cool completely before applying pressure to verify the leak was successfully repaired.
11. Evacuate the system to 250 microns or less using the FasTest service fittings. It is necessary to use both FasTest service fittings since some compressors create a mechanical seal separating the sides of the system.
12. Charge the system by weighing the charge into the unit based on charge specifications found on the rating plate.
13. Reinstall the access and top panel(s).
14. Set thermostat to call for cooling and then heating mode of operation (if heat pump). Verify that the unit is properly operating.

Filter Drier Clamp Installation Instructions

Large Filter Drier Installation

1. Position the filter drier so that there is at least a 0.25" clearance between it and the copper tubing and/or reversing valve.
2. Place the filter drier clamp as shown in Figure 6. Use two #10 self tapping screws to secure the clamp to the partition panel.

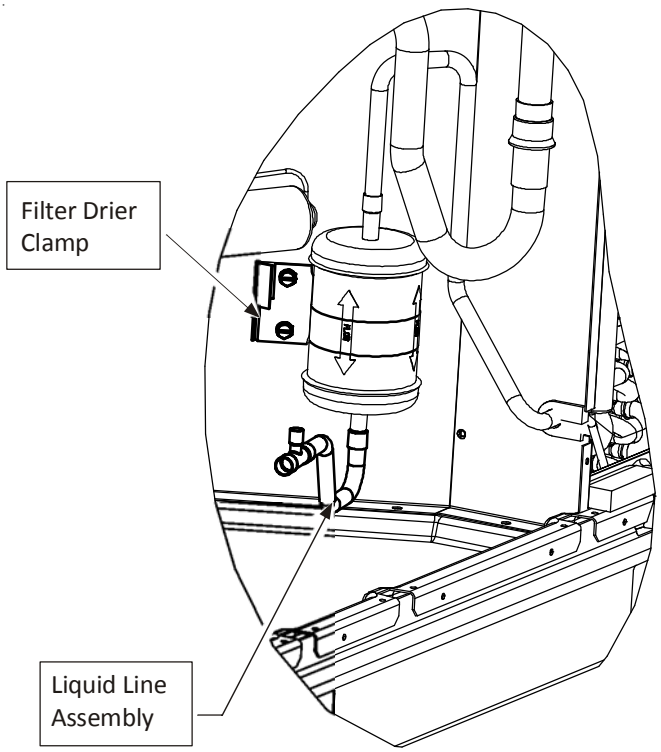


Figure 6

Small Filter Drier Installation

1. Position the filter drier so that there is at least a 0.25" clearance between it and the copper tubing.
2. Place the filter drier clamp as shown in Figure 7. Use one #10 self tapping screw to secure the clamp to the partition panel.

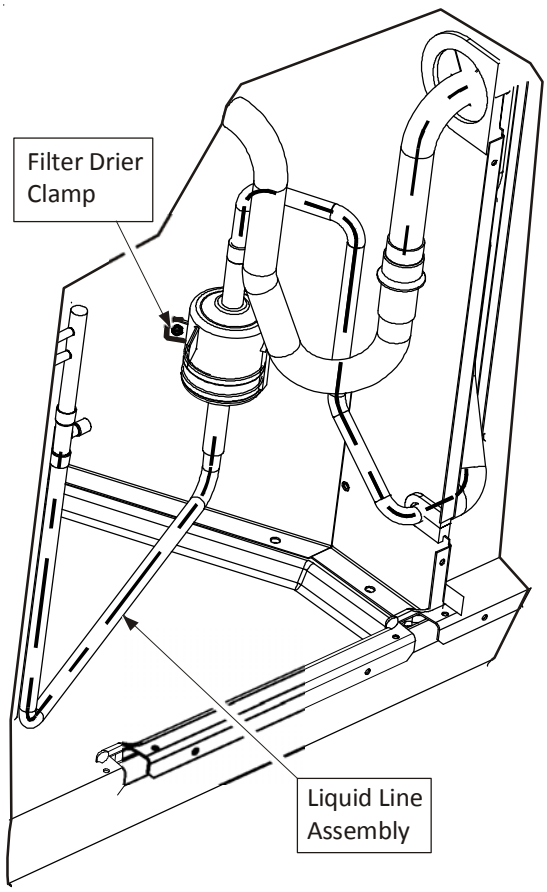


Figure 7

NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Quality Makes the Difference!

"All of our systems are designed and manufactured with the same high quality standards regardless of size or efficiency. We have designed these units to significantly reduce the most frequent causes of product failure. They are simple to service and forgiving to operate. We use quality materials and components. Finally, every unit is run tested before it leaves the factory. That's why we know. . . **There's No Better Quality."**

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