Technical Service Bulletin:

# Evaporator Coil Replacement

## Models: IDP Plus Heat Pump Units

Please read this entire document prior to proceeding with any work.

**WARNING:**

- This bulletin is intended to provide technical guidance to a professional who is qualified to work on heat pump products, components, and refrigerant. If you are not qualified to work on such equipment, please obtain the services of qualified HVAC professionals.

**WARNING: PERSONAL INJURY**

- The coil replacement procedure must not be undertaken without first removing all existing refrigerant from the product.

If you have any questions regarding the information provided in this document, please contact our Heat Pump Technical Support Team by phone at 1-800-283-3787, or via email at ac.techsupport@us.bosch.com

**CAUTION: PERSONAL INJURY, PRODUCT DAMAGE**

- Please DO NOT attempt this procedure alone. This procedure requires two people in order to be carried out safely.

## Evaporator Coil Replacement Procedure

1. Ensure that the unit is powered off and isolated from the electrical supply.
2. Reclaim all refrigerant (refer to installation manual for correct procedure).
3. Remove the 5 screws to take off the access panel #1 and #2 (Fig.1).

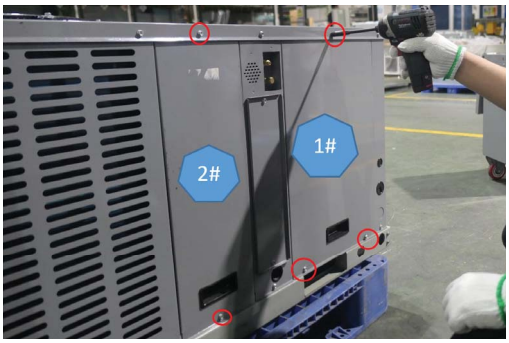


*Figure 1*

4. Remove the E-Box panel behind access panel #1.
5. Cut off the 3 cable ties near the top left corner of E-Box (highlighted circle) and disconnect the condenser motor terminal from control board (highlighted square). Carefully pull the condenser motor wire out of the lower wiring grommet (Fig.2).

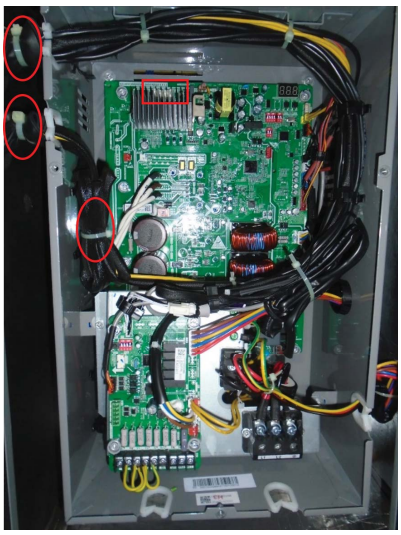

*Figure 2*


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6. Remove all 16 screws from the top cover and remove the top cover. Be careful of the condenser motor wire when lifting the top cover up (Fig.3).

*Figure 3*

7. Remove 4 screws and remove the service valves from the front column. Mark the High and Low side valve to avoid confusion. (Fig.4).

*Figure 4*

8. Remove the front column (Fig.5). Release the wires from the strain relief on the back of the column. Be careful to not damage the wires while removing and brazing the evaporator coil later.

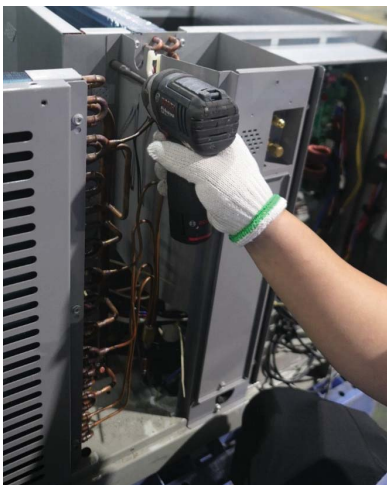

*Figure 5*

The following step REQUIRES two people in order to be carried out safely, and will provide the clearance needed to physically remove the existing coil.

9. Remove the 6 screws on the evaporator end plate as well as the strain relief.

*Figure 6*

10. Remove the 3 screws on the return air duct side (Fig.7).

*Figure 7*

11. Clean off the silicone gel that insulates the evaporator assembly from the unit base.

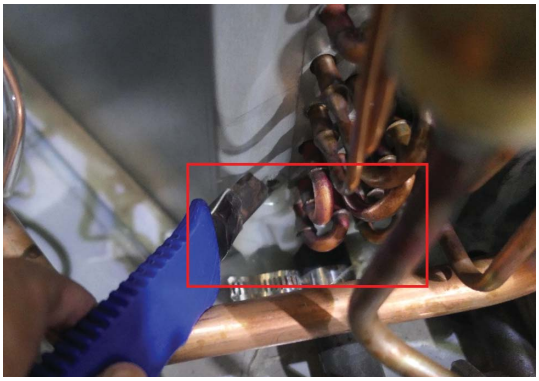

*Figure 8*

12. Cut off the brazed joints of the evaporator coil's inlet and outlet connections.

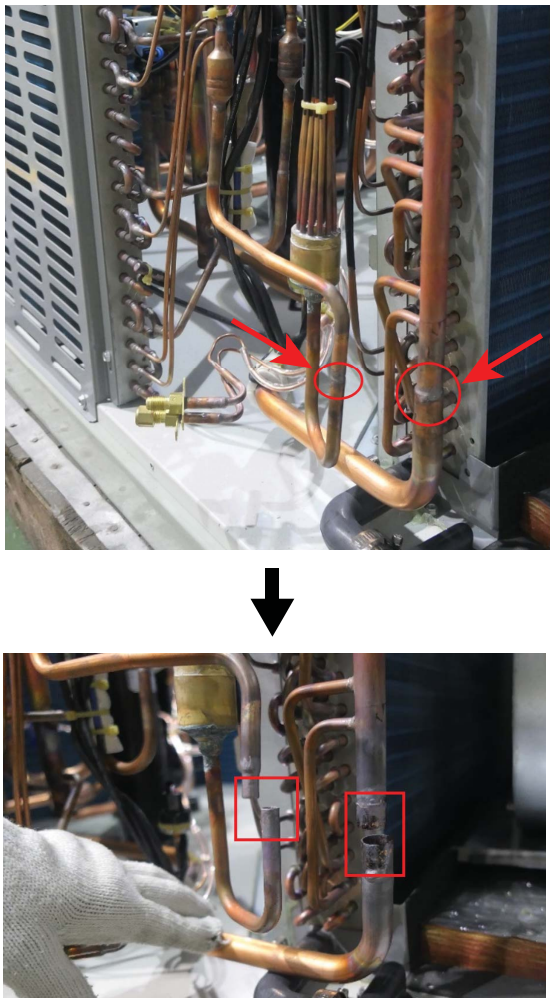

*Figure 9*

13. Remove the old evaporator coil by sliding it upwards, and then slide the new coil in. Make sure the coil and the end plate are aligned with the drain pan assembly and the partition panel.

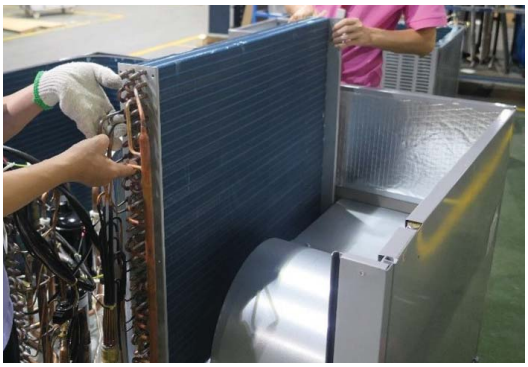

*Figure 10*

14. Using the correct procedure with nitrogen, braze the coil's inlet and outlet connections (Fig.11). **Before brazing, protect the black heat shrink tubing with a wet cloth or Thermo Trap to avoid damage.**

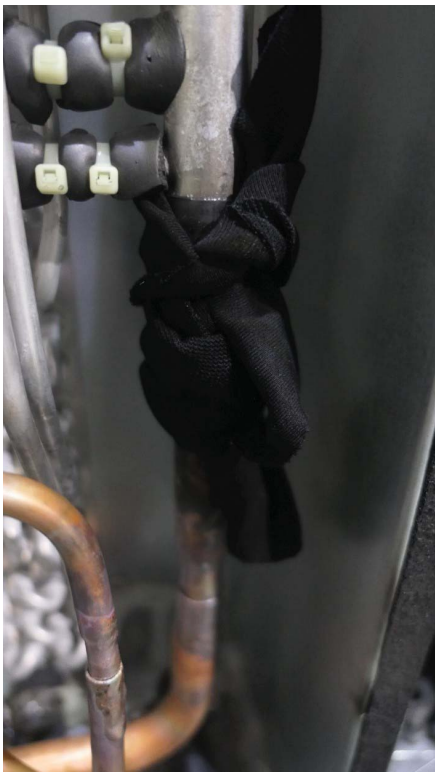

*Figure 11*

15. Seal the gap between the evaporator end plate and the drain pan with silicone or caulk.

*Figure 12*

16. Conduct leakage test, vacuum and recharge the unit (refer to the installation manual for correct specifi cations and procedure), reinstall all panels and screws, turn the power back on to the unit and conduct a test run to ensure correct operation.

*Figure 13*