

FSK03A FREEZE STAT KITS

For DFC/DFG 180-300 MODELS

INSTALLATION INSTRUCTIONS

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WARNING

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PARTS LIST

Item	Part #	Qty.
Freeze Stat Switch	0130M00582	2
Freeze Stat Assembly (Harness)	0259L02062	1
Clip Guides	M0104102	6
Wire Ties	M0321202	2

KIT INSTALLATION



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS KIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



DESCRIPTION

The FSK03A freeze stat kit is designed for commercial models to prevent ice formation on the evaporator coils. The kit can be applied to two evaporator coil circuits, which are TXV fed. (This kit is not recommended for orifice fed coils.) Two temperature switch(es) are supplied with the kit. The unit is prewired to allow installation of the freeze stat switches at the control box.

FUNCTION

Certain conditions of low indoor air flow and low indoor air temperature can cause sufficiently low coil temperature as to form frost. When the evaporator suction line cools to a temperature of 28° F, the compressor is shut off. The evaporator fan continues to run. When the suction line warms up to 55° F, the compressor is restarted. Each of the two compressor systems operates independently. Having TXV fed evaporator coils is essential for the proper operation of this device.

1. Disconnect all sources of power to the unit.
2. Remove the Control, Filter, Blower Coil and Blower panels in Figures 1 & 2.

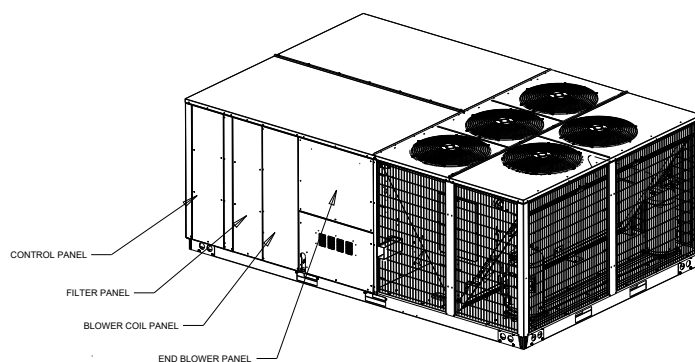


FIGURE 1

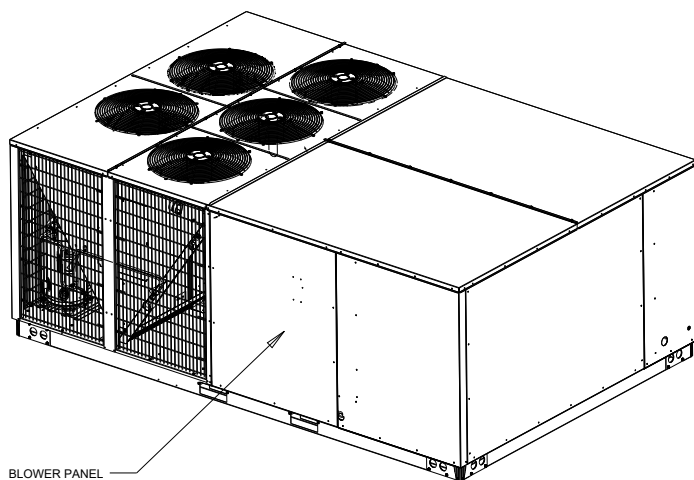


FIGURE 2

3. Locate the Freeze Protection Switch jumper(s) on the side of the Control box (as shown in Figure 3). Freeze Protection Switch 1 (FPS1) with the yellow jumper is associated for Circuit 1 and Freeze Protection Switch 2 (FPS2) with purple jumper is for Circuit 2.

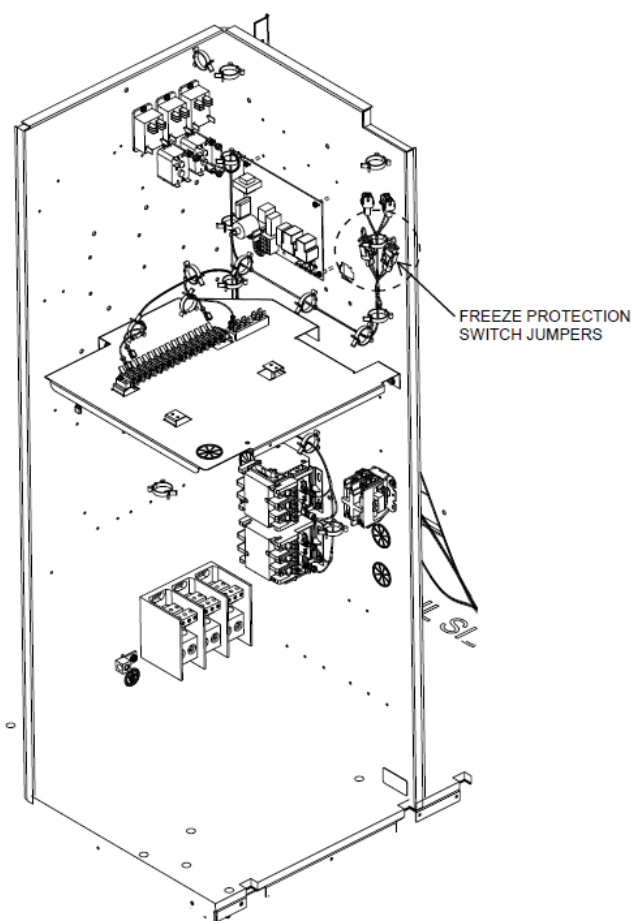


FIGURE 3

4. Remove the 2-pin yellow jumper from the unit and connect the 2-pin yellow plug provided in the Freezestat harness. Repeat for the 2-pin purple jumper with the 2-pin purple plug from the freezestat harness (as shown in Figure 4).

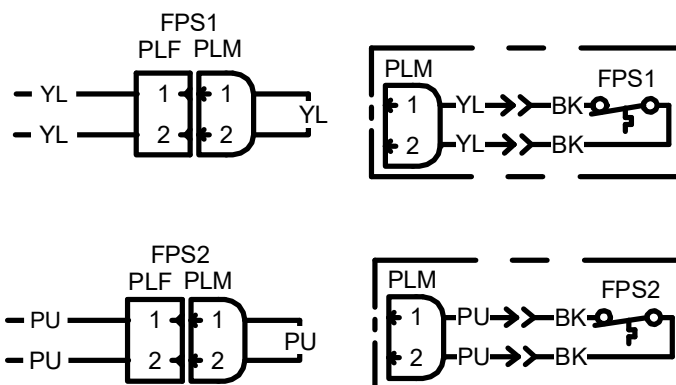


FIGURE 4

5. Route the remaining freeze stat harness wire from the control box to the curl pins at the end of evaporator coils. Route shown in Figure 5 & 6. Use the 6 Clip Guides to help route the wires. See Figure 6 for locations.

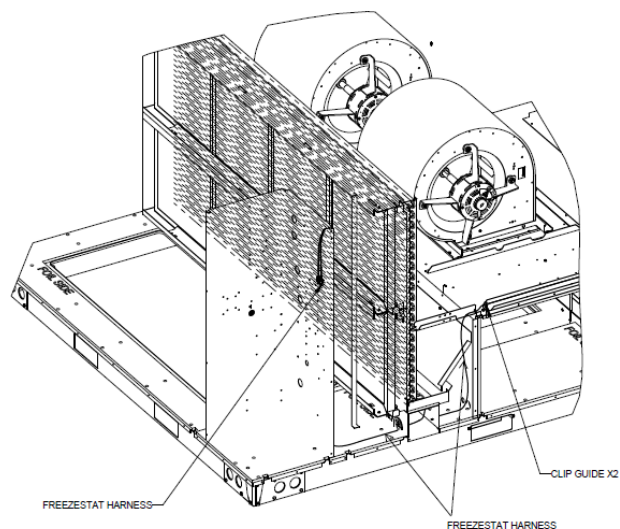


FIGURE 5

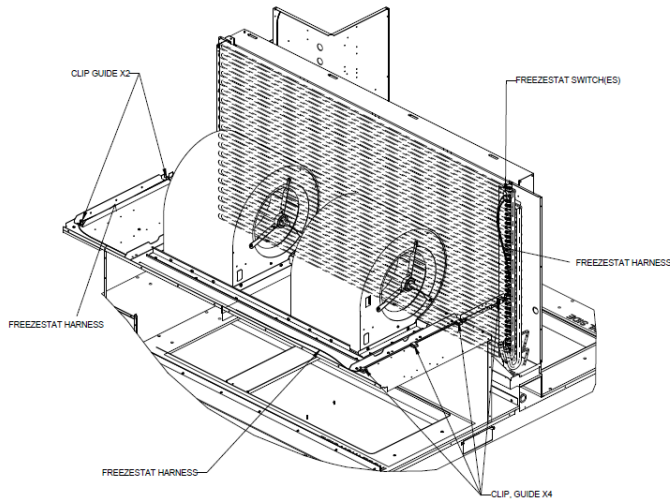


FIGURE 6

6. Install the Freezestat switch(es) at the return bends of the fins.
 - Circuit 1 : Clip the Freeze stat switch to the first manifold tube on Circuit 1 coil. Connect black wires from the switch to the yellow wire quick connects. Switch connections are not polarity sensitive. (Figure 7)
 - Circuit 2 : Clip the Freeze stat switch to the second manifold tube on Circuit 2 coil. Connect black wires from the switch to the purple wire quick connects. Switch connections are not polarity sensitive. (Figure 8)
 - Use the provided zip ties to secure the switches to the tube.

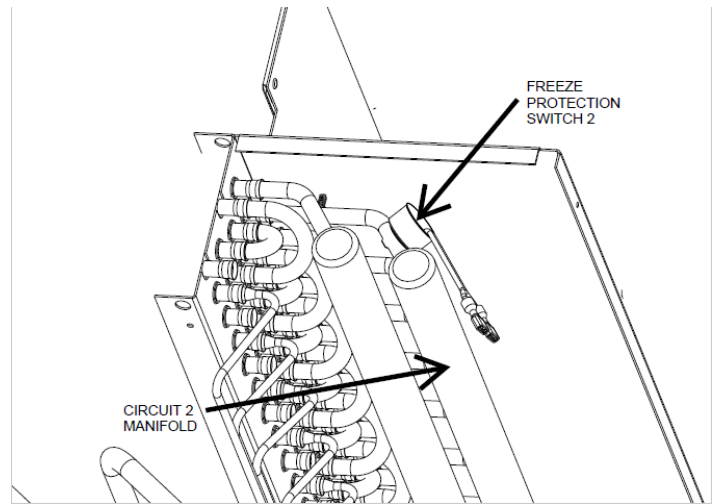


FIGURE 8

7. Reinstall all panels, except for the control box and end blower panel.
8. Restore power and verify system operation. Check switch(es) connection if compressors failed to come on during test.
9. Reinstall the remaining panels to the unit when testing is complete..

OPERATION CHECK

If the evaporator coil is in a room temperature environment (above 55 F) , the compressor for that coil system should start up at the call for stage 1 and stage 2. If the coil environment is below 55F ambient , the evaporator fan must operate for a period of time to warm up the sensor to 55F to allow the compressor to start. To check the function of each coil, remove the 2-pin plug from the freeze stat circuit, which will stop the compressor operation. Restore the connection to start the compressor.

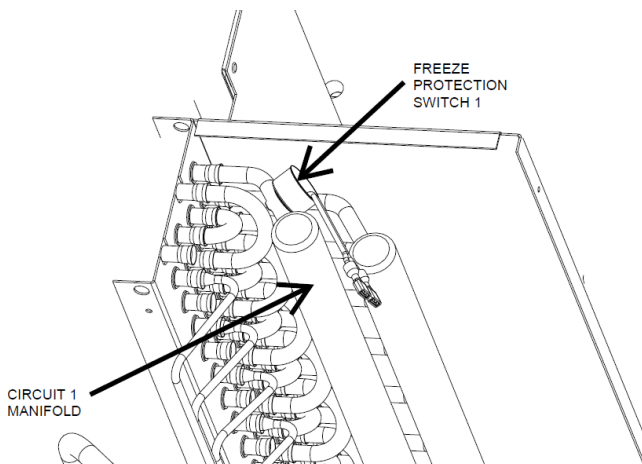


FIGURE 7

CUSTOMER FEEDBACK

Daikin is very interested in all product comments.

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<https://daikincomfort.com/contact-us>

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