



CONVERTING HOT GAS DEFROSTED FREEZER TO ELECTRICALLY DEFROSTED FREEZERS

(Refer to Freezer Component Location Drawing)

ZERO ZONE, INC.
110 N. OAKRIDGE DR
NORTH PRAIRIE, WI
53153-9792

Phone: 262-392-6400
800-247-4496

FAX: 262-392-6450

www.zero-zone.com

1. Pump compressor down and disconnect electric power to freezer.
2. Remove left end coil cover (1) and right coil cover (4). Remove center coil cover (3).
3. Disconnect floor pan hot gas tubing (13) from liquid line and from suction line by cutting the hot gas tubing. Pinch off the stubs and solder them shut.
4. Disconnect the suction line and the liquid line connections at the left end of the freezer (Near the egress hole).
5. Remove screws (14) from top edge of rear coil mounting brackets (15). Disconnect the thermostats from return bends at right end of coil.
6. Lift coil out of freezer or lift it as high as possible and install a freezer shelf or shelves below it to keep coil suspended out of the way.
7. Unswear copper tube straps (21) that are holding copper hot gas tubing to the bottom of the freezer. Remove hot gas copper tubing from freezer. Be sure that solder is wiped clean from the floor pan so that floor pan is smooth when finished.
8. Remove all rear coil mounting brackets (15) and the coil end baffles (16) from both ends of the coil. Replace them with identically shaped pieces supplied, except that the new pieces will be approximately 1" longer.
9. Install defrost heater pan with defrost heater element attached. Heater pan should be positioned on the floor pan approximately 2" from rear wall and centered left to right in the freezer. The heater lead ends should be pointing to the front of the freezer and located at the left end of the freezer. Heater element must be located on top of the pan so that freezer coil will lay directly on the element. (Standard location for defrost lead ends on factory built electric defrost freezers is on the right end. However, for field conversion, the heater element has been turned end for end so that lead end will be on the left end of the freezer.)
10. Reinstall freezer coil so that rear coil mounting brackets and coil end baffles rest on bottom of the freezer. Adjust the heater pan so that the return bend of the defrost heater element extends approximately four inches beyond the right end plate of the coil. Fasten the coil to the rear wall of the freezer with TEK screws (14) thru rear coil mounting brackets.
11. To eliminate the possibility of the check valve on the distributor bypass stud (17) leaking and causing problems in the future it would be best to cut out the check valve and pinch off the stub ends of the copper tubing. These ends must be soldered shut.
12. Complete the refrigeration connections by reconnecting the liquid line and the suction line at left end of freezer.

13. Run the 220/230 volt single phase defrost power supply up through the refrigeration opening located at the bottom left end of the freezer and connect it to the defrost heater leads.
14. Pressure check all refrigeration joints. If the refrigeration system has no leaks, replace the coil covers. Center the center coil cover and fasten it to the rear wall of the freezer and to the rear flange of the fan housing.
15. Reinstall the thermostats on the right end of the coil.
16. Install drain access cover (2) at center of center coil cover.
17. Replace the left and right end coil covers.

COMPONENTS INCLUDED IN ELECTRIC CONVERSION KIT

1. One left coil cover (1).
2. One drain access cover (2).
3. One coil cover (3).
4. One right coil cover (4).
5. One heater element mounted on heater pan.

1100 Watt element on models RI-2-DFR.

1400 Watt element on models RI-2-DFR-KT.

1650 Watt element on models RI-3-DFR.

2200 Watt element on models RI-4-DFR and RI-3-DFR-KT

2750 Watt element on models RI-5-DFR and RI-4-DFR-KT

3500 Watt element on models RI-5-DFR-KT.

6. Rear coil mounting brackets (15).

2 for model RI-2-DFR.

3 for model RI-3-DFR, RI-4-DFR, and RI-3-DFR-KT.

4 for model RI-5-DFR, RI-4-DFR-KT, and RI-5-DFR-KT.

7. Coil end baffles (16) {2 different per freezer}.

Model RI-2-DFR --- 1" X 9" and 2 3/4" X 9".

Model RI-2-DFR-KT --- 1" X 9" and 2 3/4" X 9".

Model RI-3-DFR --- 1" X 9" and 2 3/4" X 9".

Model RI-3-DFR-KT --- 1" X 9" and 2 3/4" X 9".

Model RI-4-DFR --- 1" X 9" and 2 3/4" X 9".

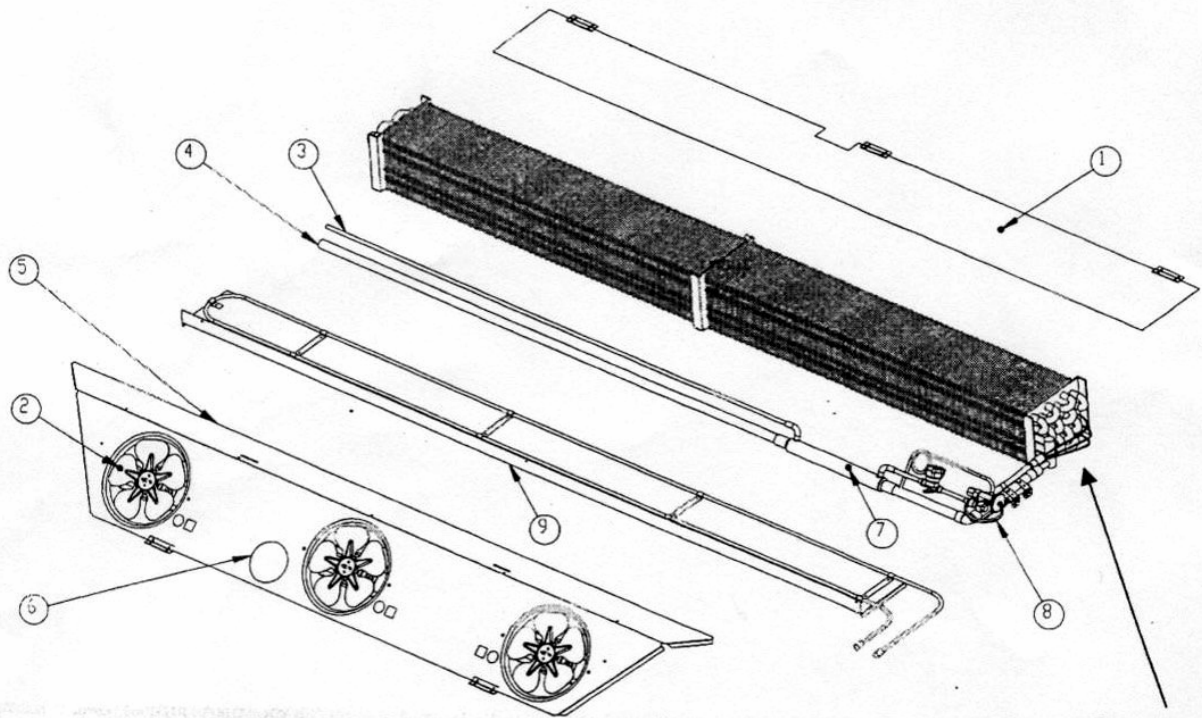
Model RI-5-DFR --- 1" X 9" and 2 3/4" X 9".

Model RI-5-DFR-KT --- 1" X 9" and 2 3/4" X 9".

8. Two heater pan clips.



RMZ ELECTRIC DEFROST



- 1. Coil Cover
- 2. Fan
- 3. Liquid Line
- 4. Suction Line
- 5. Fan Housing
- 6. Drain Access Cover
- 7. Heat Exchanger
- 8. Expansion Valve
- 9. Heating Element

Fan, Lights, and Door
Heater Limit Thermostat
attached to return
bends

RMZC30, RMZP30, RMZC24 Electric Defrost

Figure 17

RMZC30, RMZP30, RMZC24, RMZP24

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