



# POWER VENTILATOR ASSEMBLY

## PART NO. 3104726.009

### For Single Door Absorption Refrigerators

PATENT NO. 5355693

#### THIS ASSEMBLY CONTAINS:

| (Qty) | (Part No.)  | (Description)                |
|-------|-------------|------------------------------|
| (1)   | 3104132.000 | Ventilator fan, 12VDC        |
| (1)   | 3104723.006 | Fan Limit Switch, 12VDC      |
| (2)   | 312096.002  | Screws, #6 x 3/8             |
| (2)   | 3102096.001 | Screws, #10 x 3/8            |
| (1)   | 3105432.003 | Mounting Bracket, RH         |
| (1)   | 3105432.011 | Mounting Bracket, LH         |
| (1)   | 315503.005  | Fuse Holder and Fuse (1 amp) |
| (2)   | 312096.025  | Screws, #6 X 1-1/2           |
| (1)   | 3104724.020 | Installation Instructions    |
| (1)   | 3105433.001 | Wiring Diagram Decal         |

#### PURPOSE:

This Power Ventilator Assembly is for use with Dometic's single door refrigerators in applications where existing minimum vent heights are reduced. Its purpose is to assist required air movement across the refrigerator condenser to ensure optimum performance.

#### GENERAL INSTRUCTIONS:

**Read and understand these instructions before proceeding.**

#### WARNING

**Disconnect all electrical power before starting your power ventilator installation.**

**LOCATE THE MOUNTING OPTION WHICH BEST FITS YOUR SPECIFIC APPLICATION. FOLLOW INSTALLATION INSTRUCTIONS FOR THAT SPECIFIC APPLICATION.**

**Section A. Upper Side Vent (Metal)**

**Lower Side Vent (Metal or Plastic)**

**Section B. Upper and Lower Side Vent (Plastic)**

**NOTE: Install fan limit switch prior to refrigerator installation. See Section A. Step 1.**

**These instructions are only supplemental.** Install refrigerator per product installation instructions. Make sure that you follow N.E.C., state and local code requirements that are referenced in your original installation instructions. Follow the compartment sealing instructions as indicated in your instruction packet.

#### Section A. Upper Side Vent (Metal) Lower Side (Metal or Plastic)

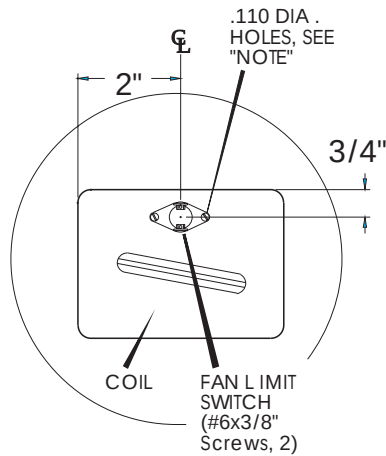
1. Install fan limit switch to refrigerator per location requirements and dimensions given in FIG. 1. Use care when drilling two .110 diameter holes for #6 x 3/8" screw attachment.
2. Install refrigerator per installation instructions per specific model requirements.
3. Install baffle the width of refrigerator cavity. See FIG. 1A.

**NOTE:** Completion of ventilator installation will be made through the access panel area. See your installation instructions for cabinet dimensional requirements. See Table 1, Page 4, for minimum vent heights.

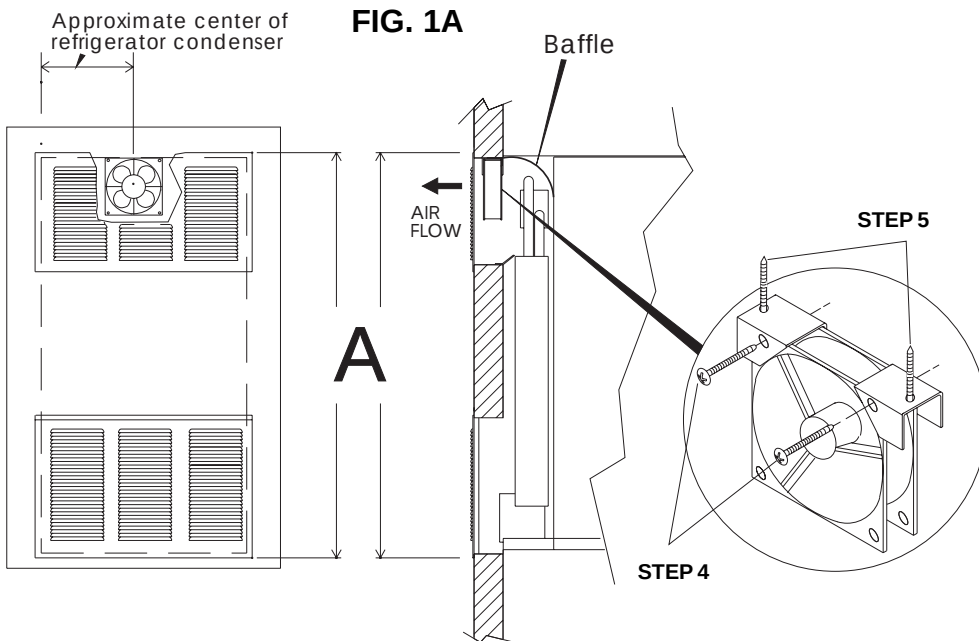
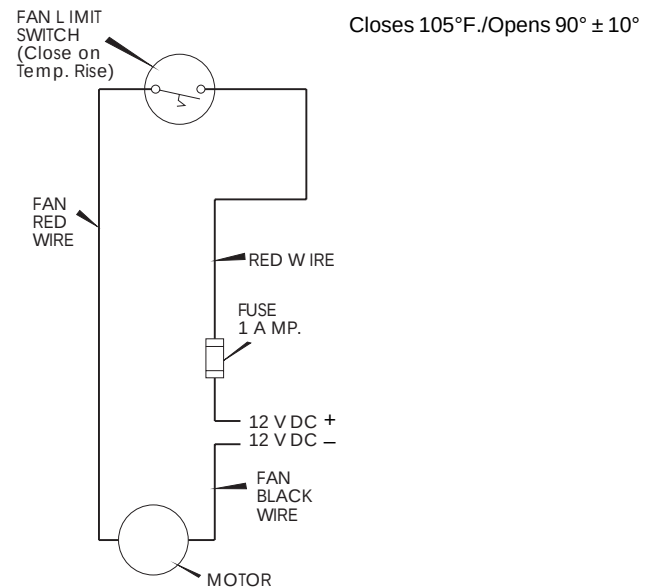
4. Install mounting brackets to ventilator fan per FIG. 1A, with #6 x 1-1/2 " screws provided.
5. Install fan in upper vent as shown in FIG. 1A (NOTE: **ensure that air flow is pointing outward.** Fan should be located so face is near outside wall structure).
6. Route fan red wire with terminal to the fan limit switch previously installed and attach.
7. Remove fuse in fuse holder and store in Safe location for later installation.
8. Route fuse holder red wire with terminal to fan limit switch and attach.
9. Connect the remaining fuse wire to the 12VDC+ (Positive) connection on the incoming side of the refrigerator terminal. **DO NOT INSTALL FUSE AT THIS TIME.**
10. Install black wire from fan motor to the 12VDC- (negative) connection on the incoming side of the refrigerator terminal block.

11. Ensure that all wiring is held securely and will not come in contact with a sharp edge or hot surface.  
See FIG. 2A
12. Complete any additional installation as required by the instructions included with your refrigerator.
13. Install fuse within fuse holder.
14. Attach wiring diagram from kit beside existing wiring schematic.
15. Your Power Ventilator will be energized by the fan limit switch when the temperature elevates above 100° ambient. This system will operate automatically with the fluctuation of the condenser temperatures.

**FIG. 1**

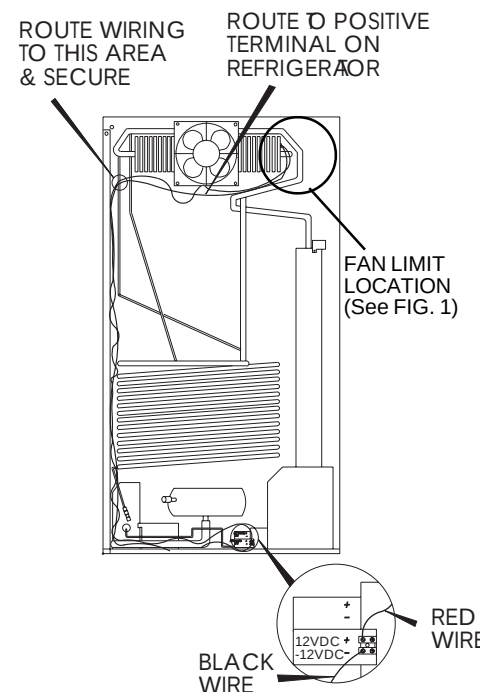


## WIRING DIAGRAM



**NOTE:** See Table 1 for Minimum vent heights.

**FIG. 2A**



## B. UPPER AND LOWER SIDE VENT (PLASTIC):

**NOTE: FAN LIMIT SWITCH SHOULD BE INSTALLED ON CONDENSER COIL BEFORE CONTINUING INSTALLATION. SEE FIG. 1, PAGE 2.**

1. Install refrigerator per installation instructions per specific model requirements.
2. Install baffle the width of refrigerator cavity. See FIG. 2B.

**NOTE:** Completion of ventilator fan installation will be made through the rear access panel area. See your installation instructions for cabinet dimensional requirements. See Table 1 for minimum vent heights.

3. Install fan in upper vent as shown in FIG. 1B (NOTE: **Ensure that air flow arrow is pointing upward.** Screws mount through fan into sidewall. Adequate support must be provided in this area.)

4. Route fan red wire with terminal to the fan limit previously installed and attach.
5. Remove fuse in fuse holder and store in safe location for later installation.
6. Route fuse holder red wire with terminal to fan limit and attach.
7. Connect the remaining fuse wire to the 12VDC+ (Positive) connection on the incoming side of the refrigerator terminal block. **DO NOT INSTALL FUSE AT THIS TIME.**
8. Install black wire from fan motor to the 12VDC- (negative) connection on the incoming side of the refrigerator terminal block.

**FIG. 1B**

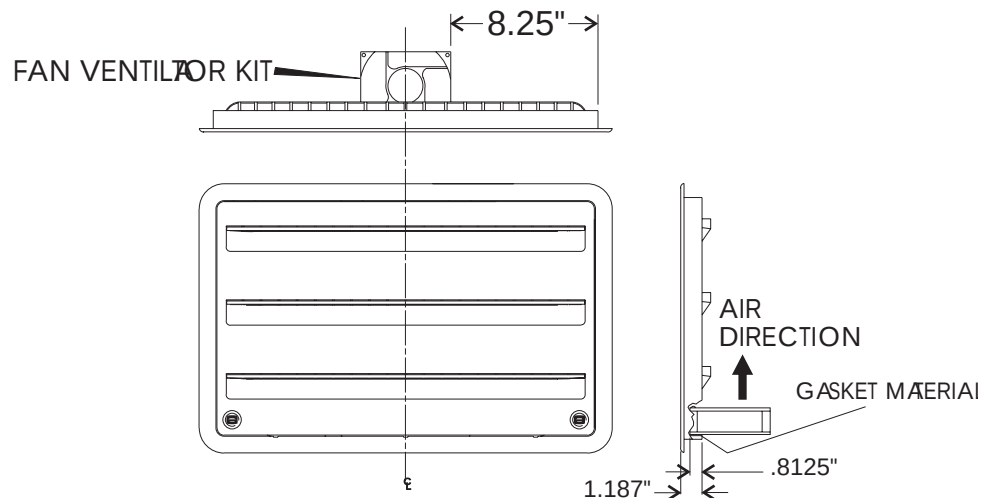
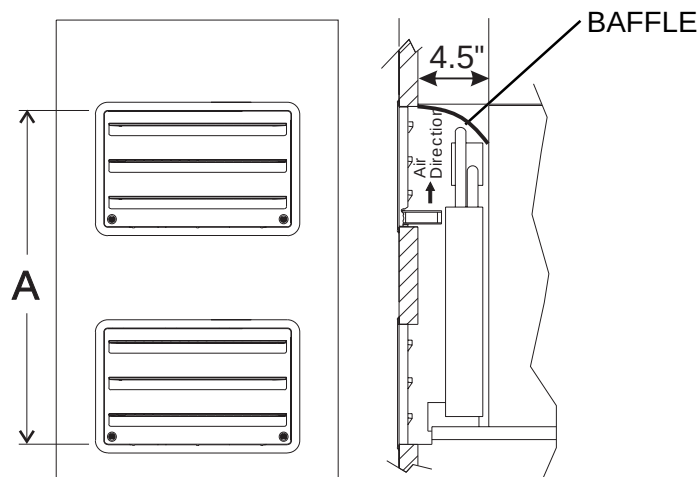


**FIG. 2B**



**NOTE:** See Table 1, Page 4, for minimum vent heights.

A

9. Ensure that all wiring is held securely and will not come in contact with a sharp edge or hot surface.
10. Complete any additional installation as required by the instructions included with your refrigerator.
11. Install fuse within fuse holder.
12. Attach wiring diagram from kit beside existing wiring schematic.
13. Your Power Ventilator is now functional and will be energized by the fan limit switch when the temperature elevates above 100° ambient. This system will operate automatically with the fluctuation of the condenser temperatures.

**TABLE 1**

| MODEL  | MIN. DIM. "A" |
|--------|---------------|
| RM2190 | 20"           |
| RM2191 | 20            |
| RM2193 | 20"           |
| RM2201 | 20"           |
| RM2202 | 20"           |
| RM2310 | 28"           |
| RM2410 | 33"           |
| RM2452 | 36"           |
| RM2453 | 36"           |
| RM2510 | 37"           |
| RM2552 | 42"           |
| RM2553 | 42"           |
| S1521  | 43"           |
| S1531  | 43"           |