FRESH AIR DAMPER
REPLACEMENT MOTOR ASSEMBLY
MODELS: FAD-14-20 RPLC MOTOR ASSY

NOTE: THE FAD MOTOR ASSEMBLY IS OPERATED BY 24 VAC ONLY.

NOTE: DO NOT TURN DAMPER MANUALLY OR MOTOR DAMAGE WILL OCCUR.

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION

This device MUST be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: _____ Phone:_____ Installation Date:_____

INSTALLATION INSTRUCTIONS

FIELD CONTROLS
Improving Indoor Environments

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REMOVAL AND INSTALLATION

1. Remove the FAD replacement motor assembly from the packaging and examine for possible shipping damage.
2. Verifying proper alignment of the wiring harness connectors on the existing motor assembly disconnect the wiring harness connector and strain relief connector from the motor assembly.
3. Carefully inspect the wiring harness connectors for looseness, corrosion, or other damage to the terminals.
4. Verify that the damper wiring harness is properly connected to the IVRC unit, following the ventCool™ installation instructions.
5. Remove the two screws that attach the motor assembly to the damper bracket, and remove the motor assembly from the damper. (See Figure 1)
6. Rotate the damper shaft counterclockwise through at least one full revolution, to verify freedom of motion. DO NOT ROTATE THE DAMPER SHAFT IN THE CLOCKWISE DIRECTION; DAMAGE TO THE DAMPER MAY OCCUR. Some resistance should be felt when the damper rotates through the closed position.
7. Mark the damper size on the unit label with a permanent marker. Example: "Model #: FAD-14".
8. Record the following information on the cover label:
   INSTALLER:
   ADDRESS:
   DATE INSTALLED:
9. Install the replacement motor assembly on the damper, using caution to avoid rotating the damper shaft in the clockwise direction. DO NOT ATTEMPT TO ROTATE THE MOTOR ASSEMBLY SHAFT COUPLING BY HAND; DAMAGE TO THE MOTOR WILL OCCUR!
10. Replace and firmly tighten the two attaching screws.
11. Align the wiring harness connector as shown on the motor assembly cover, and connect the wiring harness to the replacement motor assembly. DO NOT FORCE THE CONNECTION; A MISMATCH MAY CAUSE A HAZARDOUS CONNECTION!
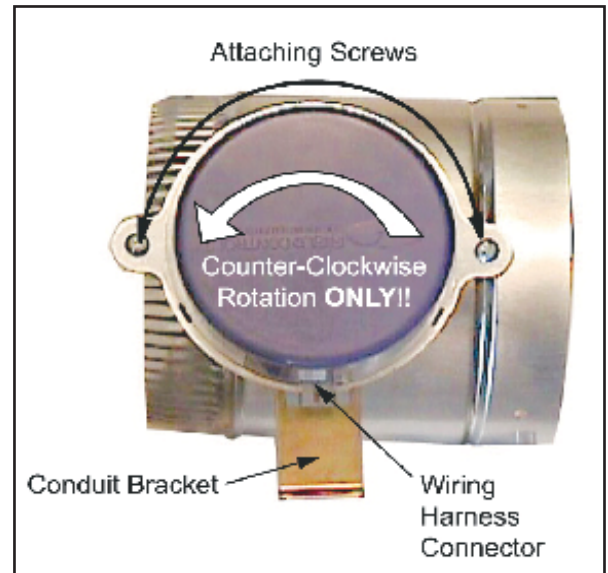12. Reconnect and tighten the harness strain relief to the conduit bracket. (See Figure 1)

FIGURE 1

FIGURE 2

CHECKOUT PROCEDURE

1. Verify that the service switch on the replacement motor assembly is in the "Automatic" position, as denoted on the motor cover. (See Figure 2)
2. Confirm if the damper with the replaced motor assembly is the return, outside, or relief damper.
3. Following the ventCool™ Instructions, press "Mode", and "Off" on the smart thermostat to put the HVAC system on standby.
4. Verify that a return damper reaches the open position (see Figure 3) and relief and outside dampers reach the closed position (see Figure 4) within approximately 15 seconds.
5. Enter the "Installation Settings" menu, select "Free Cooling" and temporarily disable "Free Cooling."
6. From "Installation Settings" select "Test Outputs" and select "Cooling 1st Stage button.
7. Verify that relief and outside dampers reaches the open position and a return damper reaches the closed position within approximately 15 seconds.
8. Re-enable Free Cooling Mode and the HVAC System.

FIGURE 3

FIGURE 4

This manual may be downloaded and printed from the Field Controls website (www.fieldcontrols.com)

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