INSTALLATION INSTRUCTIONS

MODELS
MFAD-2
MFAD-3

MOTORIZED FRESH AIR DAMPER

Date: March 1, 1993
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DESCRIPTION
The motorized fresh air dampers MFAD-2, 3 are internally mounted dampers designed to bring in up to 25% fresh air. The damper blade is powered by a 24 VAC motor with spring return on power loss. The damper is powered open anytime the unit blower motor is energized.

APPLICATION
The amount of outside fresh air brought into the structure is dependent on the supply and return duct static pressure present in the duct system. Refer to Page 2 for ventilation air that will be supplied at different duct static pressures.

For free blow applications with return air filter grill and supply grill use 0.00 supply air static pressure and 0.1 return air static pressure.

<table>
<thead>
<tr>
<th>MFAD-2</th>
<th>MFAD-3</th>
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<tbody>
<tr>
<td>WA181-A</td>
<td>WA301-A</td>
</tr>
<tr>
<td>WB181-A</td>
<td>WA301-B</td>
</tr>
<tr>
<td>WA241-A</td>
<td>WA301-C</td>
</tr>
<tr>
<td>WA241-B</td>
<td>WA301-D</td>
</tr>
<tr>
<td>WB241-A</td>
<td>WB301-A</td>
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<tr>
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<td>WB301-B</td>
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<tr>
<td>WB241-C</td>
<td>WB301-C</td>
</tr>
<tr>
<td>WB241LA</td>
<td>MA361-A</td>
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Suitable for use with:

- WA361-A
- WA361-B
- WA361-C
- WA361-D
- WA361-E
- WA361-F
- WA361-G
- WA361-LA
- WB361-A
- WB361-B
- WB361-C
- WB361-LA
- WB361LB
- WB361LA
- WB361LB
### MOTORIZED FRESH AIR DAMPER
#### MFAD-2

<table>
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<th>Ventilation Air (CFM)</th>
<th>85</th>
<th>135</th>
<th>190</th>
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<th>295</th>
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<tr>
<td>Return Air Static Pressure</td>
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<td>.10</td>
<td>.15</td>
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</table>

### MOTORIZED FRESH AIR DAMPER
#### MFAD-3

<table>
<thead>
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<th>Supply Air ESP</th>
<th>Ventilation Air (CFM)</th>
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<td><strong>HIGH SPEED</strong></td>
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<tr>
<td>.00</td>
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<td>.20</td>
<td>45</td>
</tr>
<tr>
<td>.40</td>
<td>25</td>
</tr>
<tr>
<td>Return Air Static Pressure</td>
<td>.00</td>
</tr>
</tbody>
</table>

| **LOW SPEED** |                      |
| Ventilation Air (CFM) | 50 | 100 | 240 | 300 |
| Return Air Static Pressure | .00 | .05 | .10 | .15 |
INSTALLATION

STEP 1. Disconnect all power to wall mount unit before installing MFAD.

STEP 2. Remove service door. (See Figure 1) Remove fresh air damper or blank off plate if installed on service door. Remove 4 screws from top of front condenser grille. (See Figure 3A)

STEP 3. The "exhaust cover plate" must be in place when an MFAD-2, or -3 is installed. (See Figure 2)

STEP 4. Install MFAD with notch in front lip of MFAD centered over hole in condenser partition. (See Figure 3A)

STEP 5. Position MFAD with front lip over condenser partition and under front grille. (See Figure 3B) This is important to insure proper drainage of any water entering damper assembly.

STEP 6. Use a self drilling screw through hole provided in left mounting flange to secure MFAD in position.

STEP 7. Route wires as shown in Figure 3A into unit low voltage terminal strip area.

STEP 8. Connect black wire to C terminal of low voltage block. Connect red wire to G terminal of low voltage block. See wall mount low voltage connection diagram in the unit installation instructions for wiring diagram.

STEP 9. Check MFAD for proper operation. MFAD should open whenever the blower is energized.

STEP 10. Replace 4 screws in front condenser grille and replace service door. Plug 4 holes in service door with plastic plugs provided.

FIGURE 1

FIGURE 2
**FIGURE 3A**

- Use a self-drilling screw to fasten the MRAO to the condenser partition.
- When installing MRAO position so that notch in front lip is centered over hole in condenser partition.
- Route MRAO wires through hole and into control panel.

CAUTION: HOLE IN MRAO MUST BE USED TO ENSURE CLEARANCE FROM CONDENSER COIL TUBING.

**FIGURE 3B**

- Service door
- MRAO
- Front grill
- Condenser partition
- MRAO lip is to be between front grill and condenser partition for proper water drainage.