



Installation and Maintenance Manual

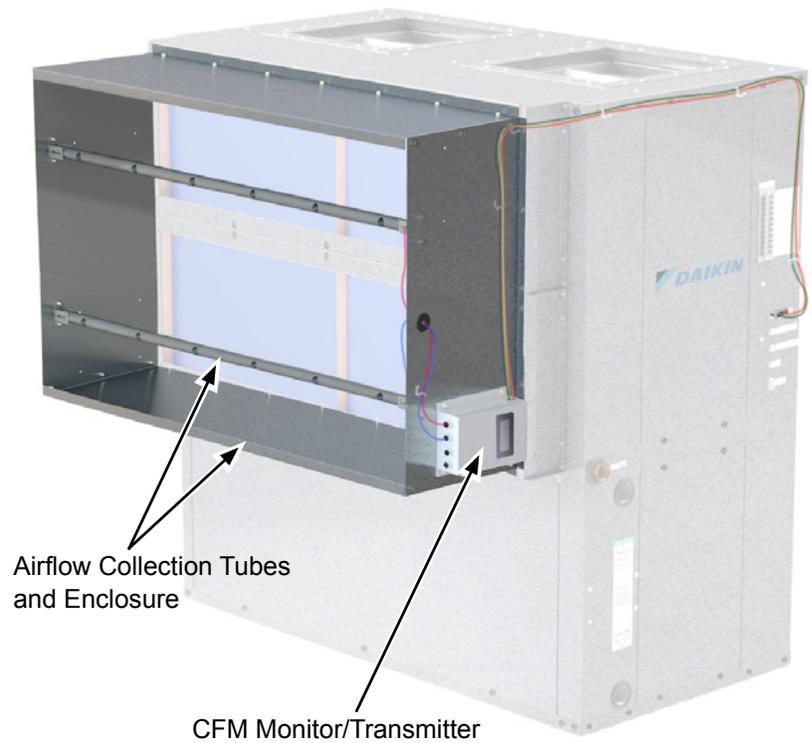
IM 1316

Group: **WSHP**

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Outside Airflow Sensor Kit

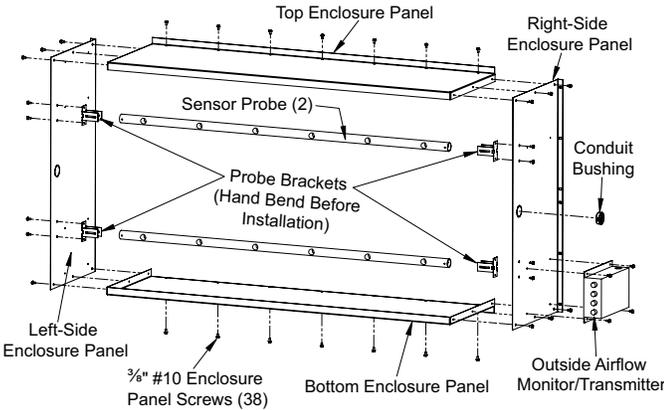


Outside Airflow Sensor Kit

Included Parts:

- Outside Airflow Monitor/Transmitter
- (2) Sensor Probes
- (4) Probe Brackets
- (1) Top and (1) Bottom Panel
- (1) Left-Side Panel and (1) Right-Side Panel
- Conduit Bushing
- 5-pin Male Molex plug with (1 each) 12" Red, Black, Green wires (not shown)
- 3" long black wire (not shown)
- (38) 3/8" #10 self-tapping screws
- (6) Cable Ties (not shown)
- (6) Wire Ties (not shown)

Figure 1: Kit Parts Assembly



Installation

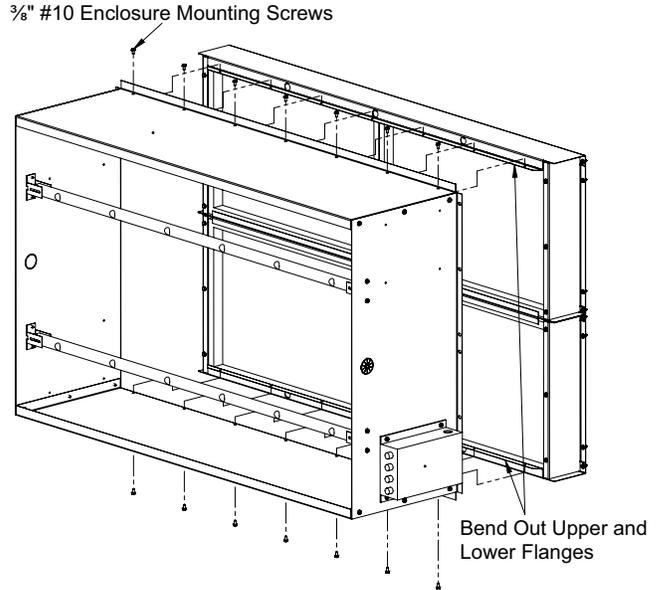
All wiring must comply with the National Electric Code (NEC) and local codes. Do NOT run any of this device's wiring in the same conduit as other AC power wiring. Tests show that fluctuating and inaccurate signal levels are possible when AC power wiring is present in the same conduit as the signal lines. If you are experiencing any of these difficulties, please contact your Daikin representative.

1. Remove all components from the packaging and confirm all pieces have been received.
2. Assemble the sensor enclosure as show in [Figure 1](#).

Note: Use field-supplied screws to attach sensor probe brackets to sensor probes

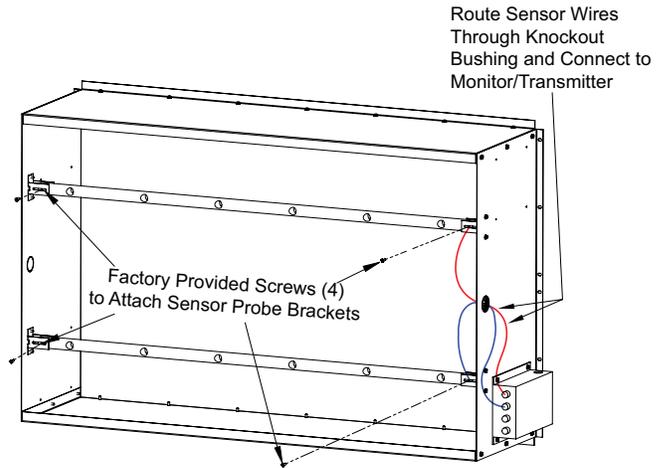
3. Attach sensor assembly to filter inlet frame as shown in [Figure 2](#).

Figure 2: Attach Assembled Outside Airflow Kit to Filter Inlet Frame



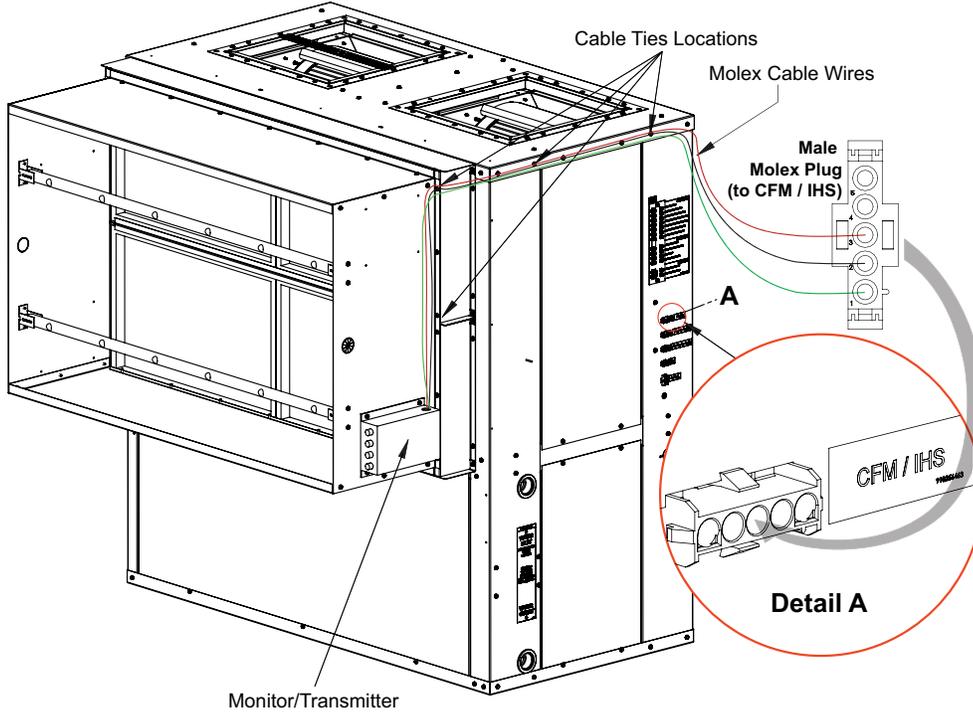
4. Attach sensor wires from Monitor/Transmitter to sensor probe tubes as shown in [Figure 3](#).

Figure 3: Attach and Route Wires from Sensor Probes Brackets to Monitor/Transmitter



5. Route wiring harness from mating CFM/IHS moxle plug to the monitor/transmitter, (Figure 4).

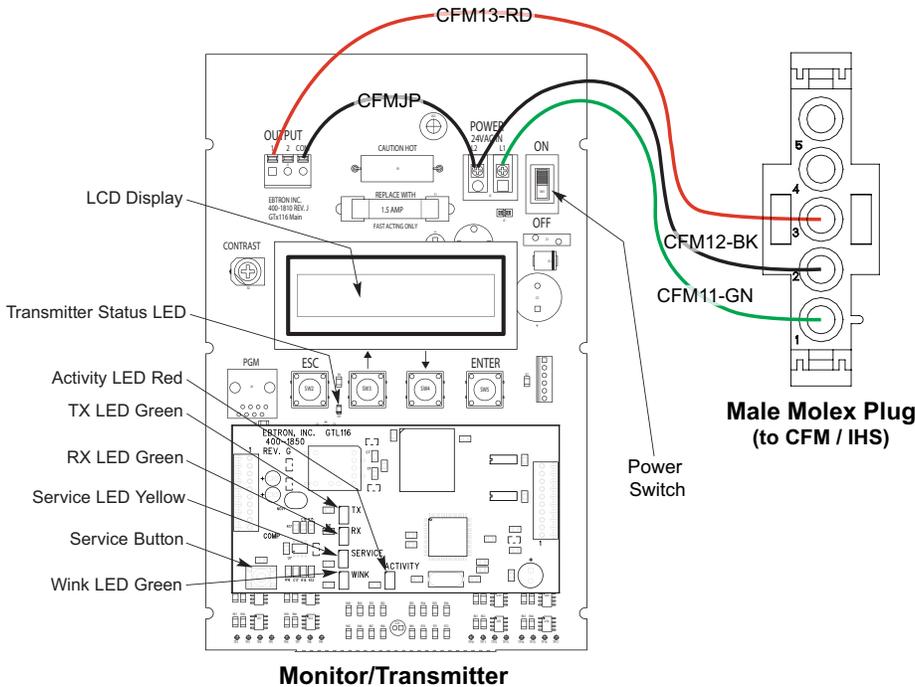
Figure 4: Route Male Plug Wire Harness Wires to Monitor/Transmitter



6. Connect the wires from the wire harness to the monitor/transmitter terminals as follows: Refer to Figure 5

- Green wire (CFM11-GN) to the POWER 24VAC IN : L1 connection
- Black wire (CFM12-BK) to the POWER 24VAC IN : L2 connection
- Red wire (CFM13-RD) to the OUTPUT : 1 connection
- Install the 3" black wire (CFMJP) between the POWER 24VAC IN: L2 and OUTPUT: COM connections

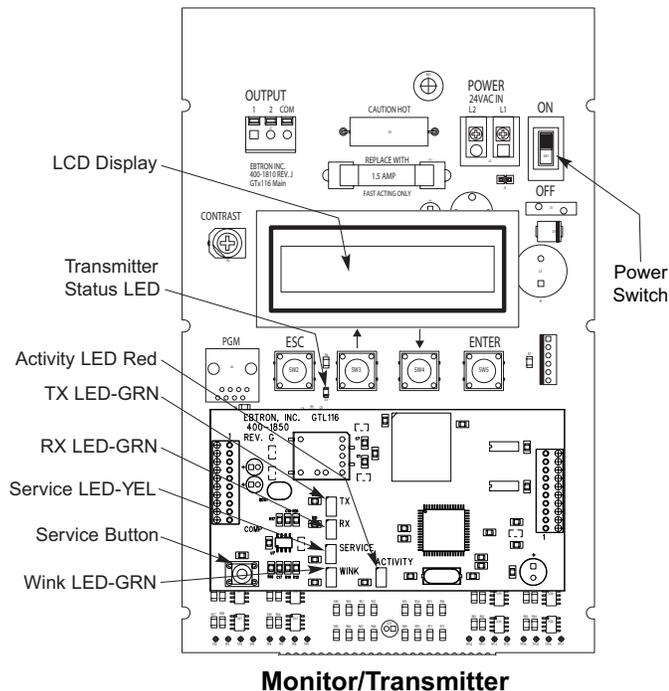
Figure 5: Connect Wire Harness Wires to Monitor/Transmitter Terminals



Outside Airflow Monitor/Transmitter Configuration

1. Set the power switch to ON.
2. Set transmitter SW1 to VDC
3. Set transmitter to display in ACFM by selecting
SETUP > ANALOG OUT > *AO1 UM=AFPM
Change to AO1 UM = ACFM

Figure 6: Monitor/Transmitter Board



Programming

To enable use of this sensor the following configuration point must be changed. Changes can be made through the local user interface or through the Service Tools software for Microtech® Unit Controllers program on a connected PC. For information on how to use the ServiceTools software, refer to OM 732. The local user interface menu path is shown below.

- To enable Outdoor Air Flow measuring go to Service > Serv-Analn > Serv-Analn-Config > CFgAnln16 and change the value from None to OAFLOW. Then go to SET > Set-SensorInstall > OAFLOWsens and confirm that it is set to 'Inst'.

If using the ServiceTools software, change the unit configuration as follows:

- To enable Space Temperature sensing, go to the 'Configuration' menu and under the 'Inputs' drop down change 'Analog Input 16' to 'Outside Air Flow'. Confirm that under the 'Sensor Installation' drop down, 'Outside Air Flow' is 'Installed'.

Click the Save button after making changes so they take effect. ServiceTools prompts you to save if you are switching to another screen without saving.

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To find your local service office, visit www.DaikinApplied.com or call 800-432-1342.

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