



## INSTALLATION INSTRUCTIONS

0-25 %, 0-35% & 0-100% Manual & Motorized Outside Air Damper

Model # OAPRS25, OAPRL25

For ZX\* (04-07, 08-14) ZY\* (04-06, 07-12) Single Package Equipment Applications  
Including a Field Installed 0-25%, 0-35% & 0-100% Manual & Motorized Outside Air  
Damper

PLEASE NOTE: If the unit is 208/230V, single phase, power supply, the installed 40VA transformer may need to be replaced with a 75VA transformer and circuit breaker. All other factory units have the 75VA transformer installed standard.

PARTS INCLUDED	QTY.
Motorized Outside Air Damper	3
Type A #10 -16 x 1/2 Screw	3
Wire Clamp	3
Discharge Air Sensor (w/CO2 version only)	1

### Before Starting Installation

Only qualified HVAC service personnel should install, troubleshoot, repair or service HVAC and related HVAC equipment.

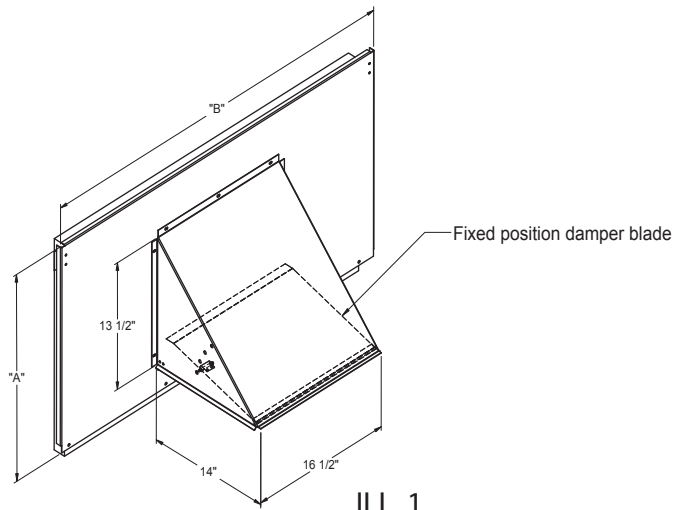
### Warning

Shut power to unit prior to any work being done. Personal injury or death could result.

### General

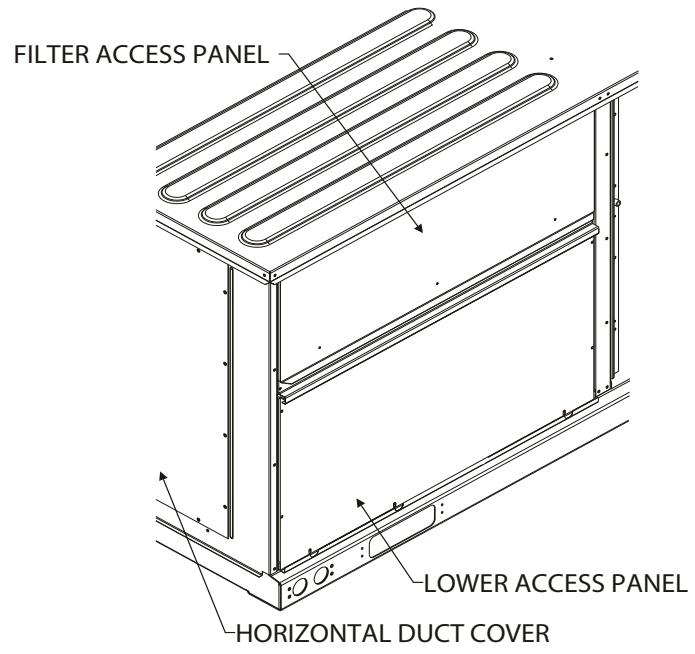
The following instructions provide all the necessary information to properly field install the 0-25% & 0-100% Manual Outside Air Damper.

1. Verify all unit parts in box.  
1 ea. Manual Outside Air Damper
2. Remove screws that secure lower access panel. Discard lower access panel but retain screws for later use. (See ILL. 2)
3. Install manual outside air damper assembly in place of lower access panel removed in step 2. Use the screws retained in Step 2 to secure to unit. (See ILL. 3)
4. Adjust the side pin damper to set required amount of outside air.

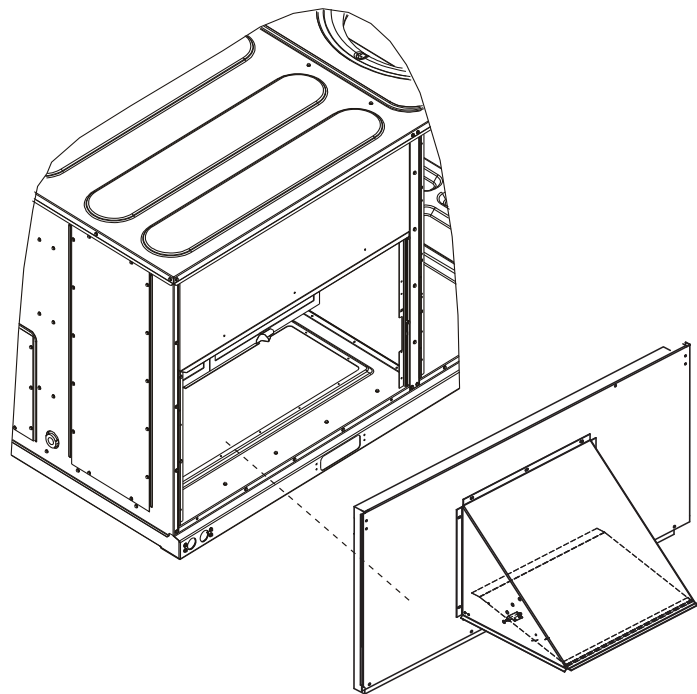


ILL. 1

ILL. 2



ILL. 3



## General

The following instructions provide all the necessary information to properly field install the 0-100% Motorized Outside Air Damper.

1. Remove outside air hood from panel and retain screws.
2. Secure damper to insulated side of panel with screws provided with Motorized Outside Air Damper.
3. Remove screws that secure lower access panel. Discard lower access panel but retain screws for later use. (See ILL. 5)
4. Route wires to control module located in unit. Make the wire connections according to the following indoor blower installed.

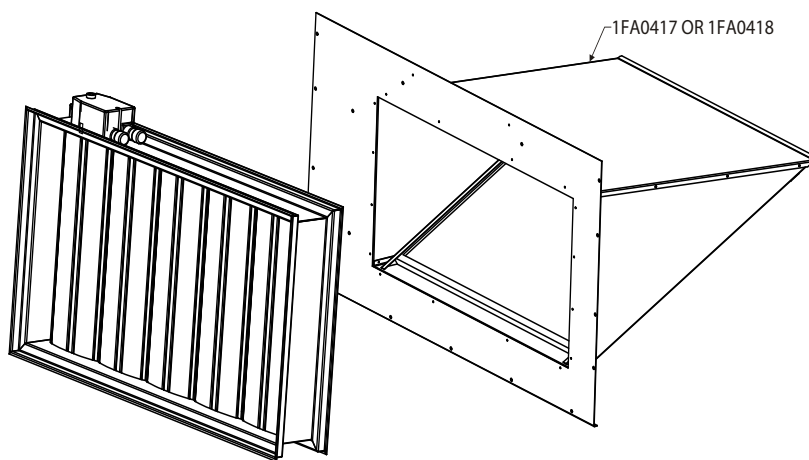
### Direct Drive Units:

Locate the quick connect wire connections 238(BR)/ 210(W) near the terminal block in the unit control box. Pull apart the 238/210 wire connection. Connect wire 238 to the female quick connect from the actuator with the red and grey wires. Connect wire 210 to the male quick connect from the actuator with the two red wires. Locate the quick connect wire connections 237(BR)/ 205(BR) near the terminal block in the unit control box. Pull apart the 237/205 wire connection. Connect wire 237 to the female quick connect from the actuator with the black wire. Connect wire 205 to the male connector from the actuator with the two black wires.

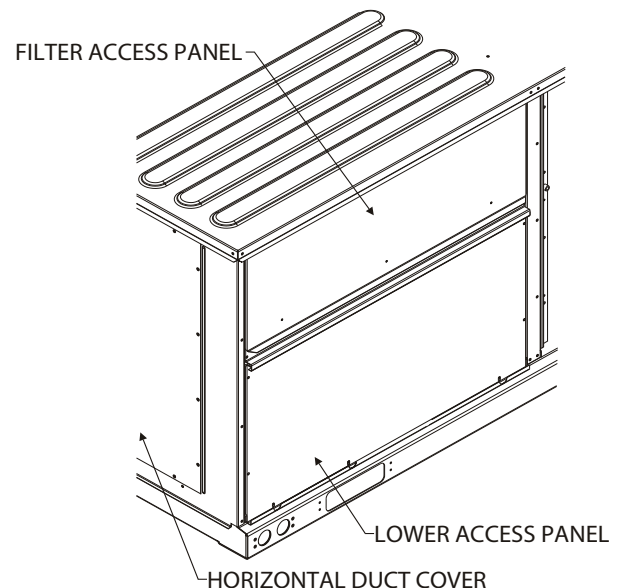
### Units with an Indoor Fan VFD:

Locate the indoor blower relay below the transformer in the unit control box. Remove wire 210(W) from the relay and connect to the male quick connect from the actuator with the two red wires. Connect the female quick connect with the red and grey wire from the actuator to the relay terminal where wire 210 was located.

ILL. 4



ILL. 5



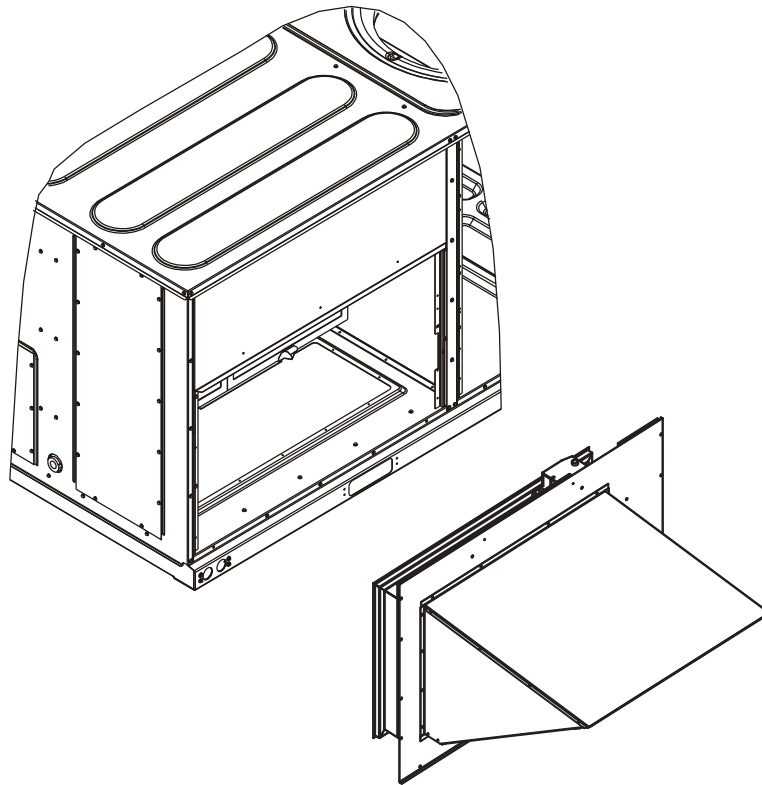
Remove wire 207(BR) from the relay and connect to the male quick connect from the actuator with two black wires. Connect the female quick connect with the black wire from the actuator to the relay terminal where wire 207 was located.

All other Units:

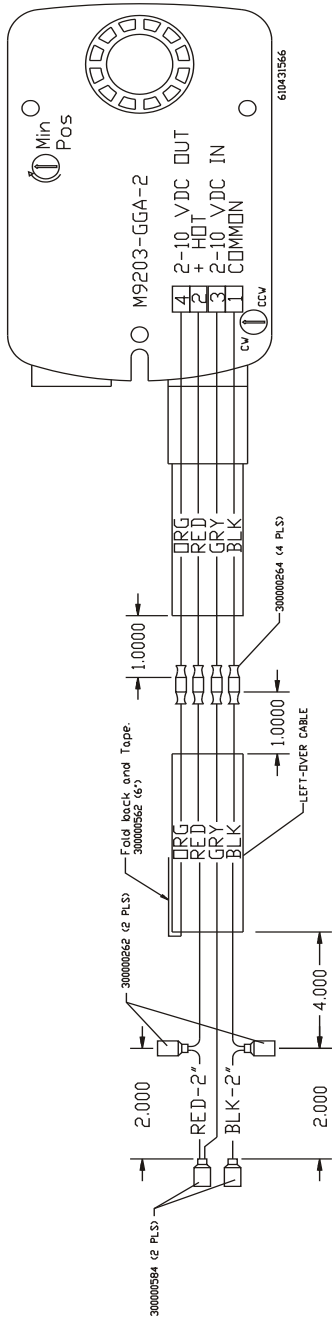
Locate contactor M3 near the terminal block in the unit control box. Remove wire 210 (W) from the contactor and connect to the male quick connect from the actuator with the two red wires. Connect the female quick connect with the red and grey wire from the actuator to the contactor terminal where wire 210 was located. Remove wire 207(BR) from the contractor and connect to the male quick connect from the actuator with two black wires. Connect the female quick connect with the black wire from the actuator to the contactor terminal where wire 207 was located.

5. Install motorized outside air damper assembly in place of lower access panel removed in Step 4. Use screws retained in Step 3 to secure to unit. (ILL. 6)
6. Loosen adjustable slide damper to set required amount of outside air.

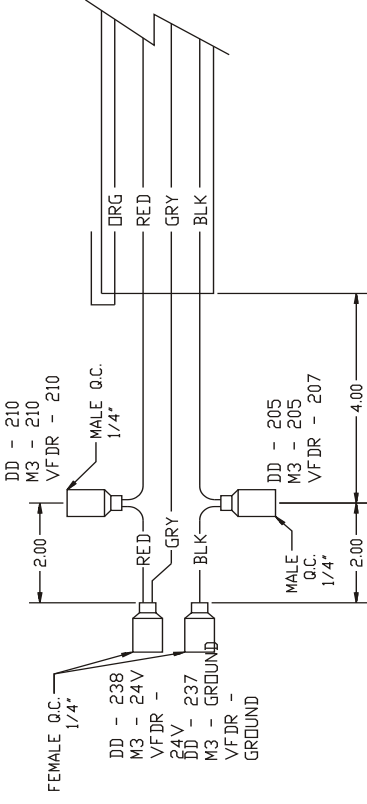
ILL. 6



HARNES DETAIL IL	M9203 Damper Actuator 24V	COMPONENT CODE Damper Actuator 24V	WIRE COLOR CODE	Revision	Change	Date
				A	Added Harness Detail	06-27-14
			BLK	Black	BLU	Blue
			BRN	Brown	GRN	Green
			GRA	Gray	ORN	Orange
			RED	Red	VIO	Violet
			WHT	White	YEL	Yellow



Harness Detail



Notes:

- 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.

0-100% Motorized Outside Air Damper  
for Johnson Controls Inc.

3847 Wabash Drive  
Mira Loma, CA 91752  
(951) 685-1101  
(619) 872-9799

Date: June 27, 2014  
Supersedes: 05-19-14  
Drawn by:  
Unit #: 80- 302-45/46  
Diagram#: 8030245 fgw  
Approved by: