

Before Starting Installation

Warning

Severe injury can result from incorrect servicing. Only qualified HVAC service personnel should install, trouble-shoot, repair or service HVAC and related HVAC equipment.

Always disconnect power before servicing. Please note some installation configurations may have more than one disconnect.

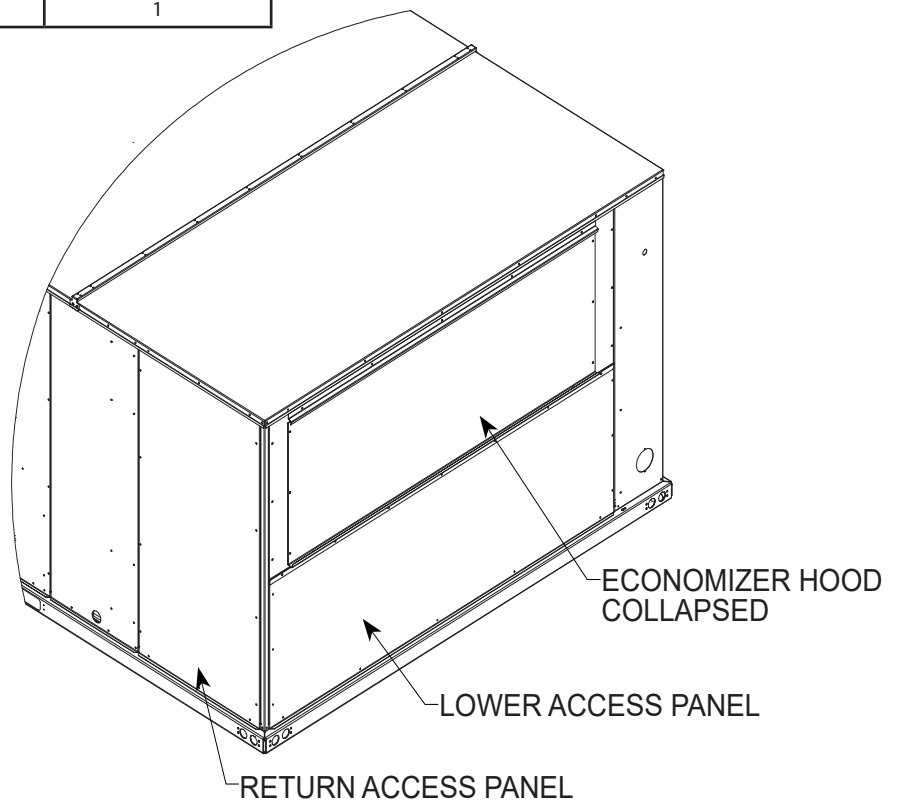
Important

Always follow all local building electrical codes.

PEDCSAV2528							
Voltage	ProVent P/N	External Static (in. W.G.)				FLA	HP
		0.1	0.25	0.375	0.5		
230/3Ph	PEDCSAV252825CS PEDCSAV252825MS	10,400 cfm	10,000 cfm	9,500 cfm	8,000 cfm	11.2	4 Hp Total (Qty. 2: 2 Hp)
460/3Ph	PEDCSAV252846CS PEDCSAV252846MS					5.6	

PARTS INCLUDED	STANDARD OUTPUT QTY.
#12 x 3/4 Sheet Metal Screw	40
Adjustable Unit Supports	2
3/16" Dia x 25' Pressure Tubing (w/Modulating Option Only)	1
Pressure Connection Port (w/Modulating Option Only)	1

ILL. 1

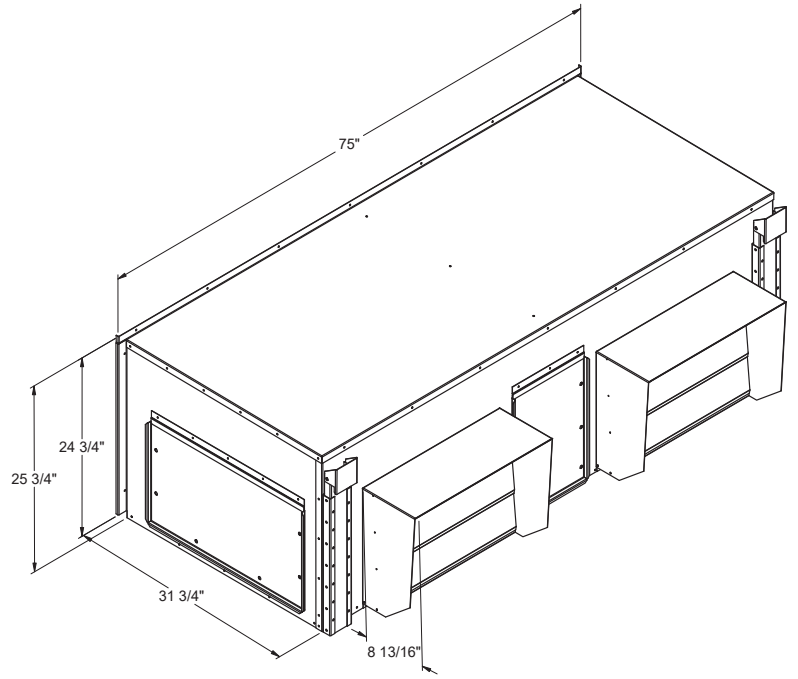


Installation Instructions

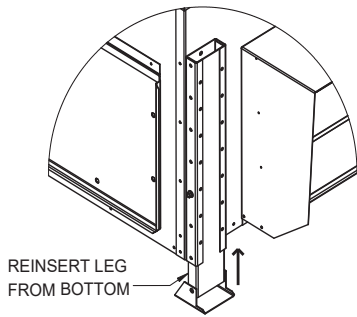
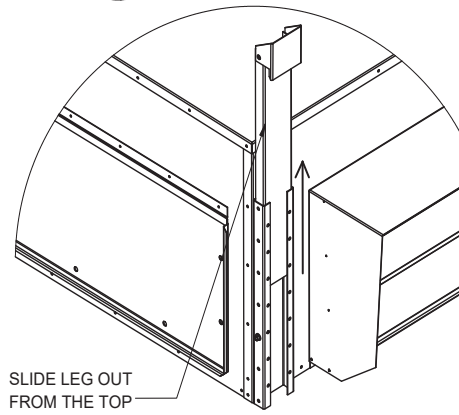
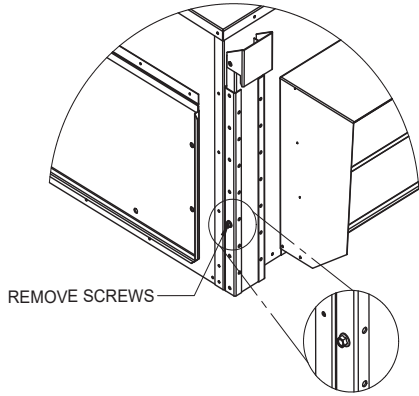
1. Remove the screws from around the perimeter of the lower access panel to remove panel from RTU. Retain screws to be used later. Remove the screws from around the perimeter of the rear return access panel to remove panel from RTU for general access during power exhaust installation.
2. Slide top flange of the power exhaust assembly underneath the bottom flange of the top panel. Align holes of the power exhaust assembly with holes on top panel. Attach with screws removed from Step 1.
3. Install the power exhaust assembly so that the corner post rests on RTU baserail. Use remaining screws from Step 1 to secure around the rest of the power exhaust.

Figure 2

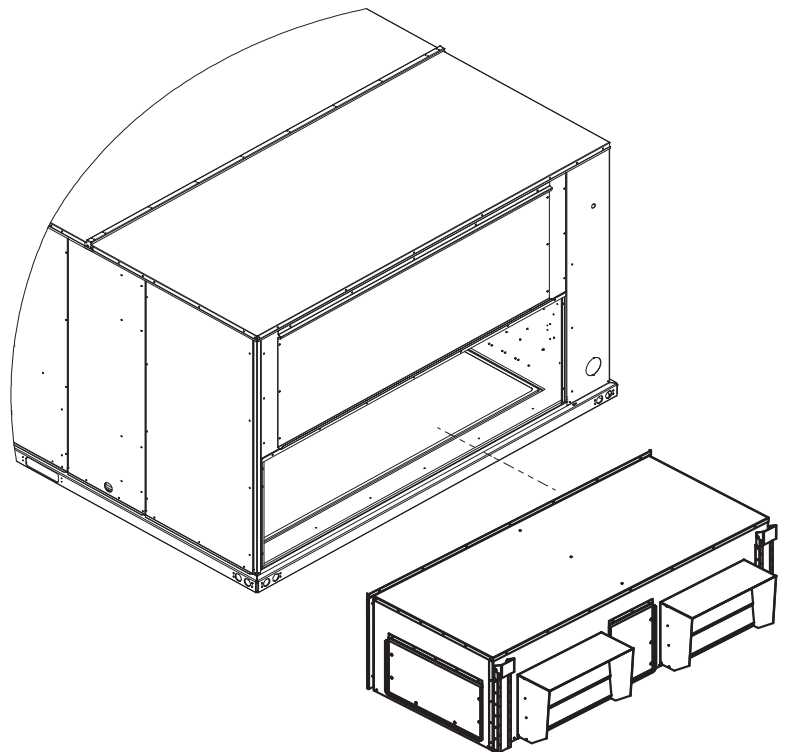
ILL. 2



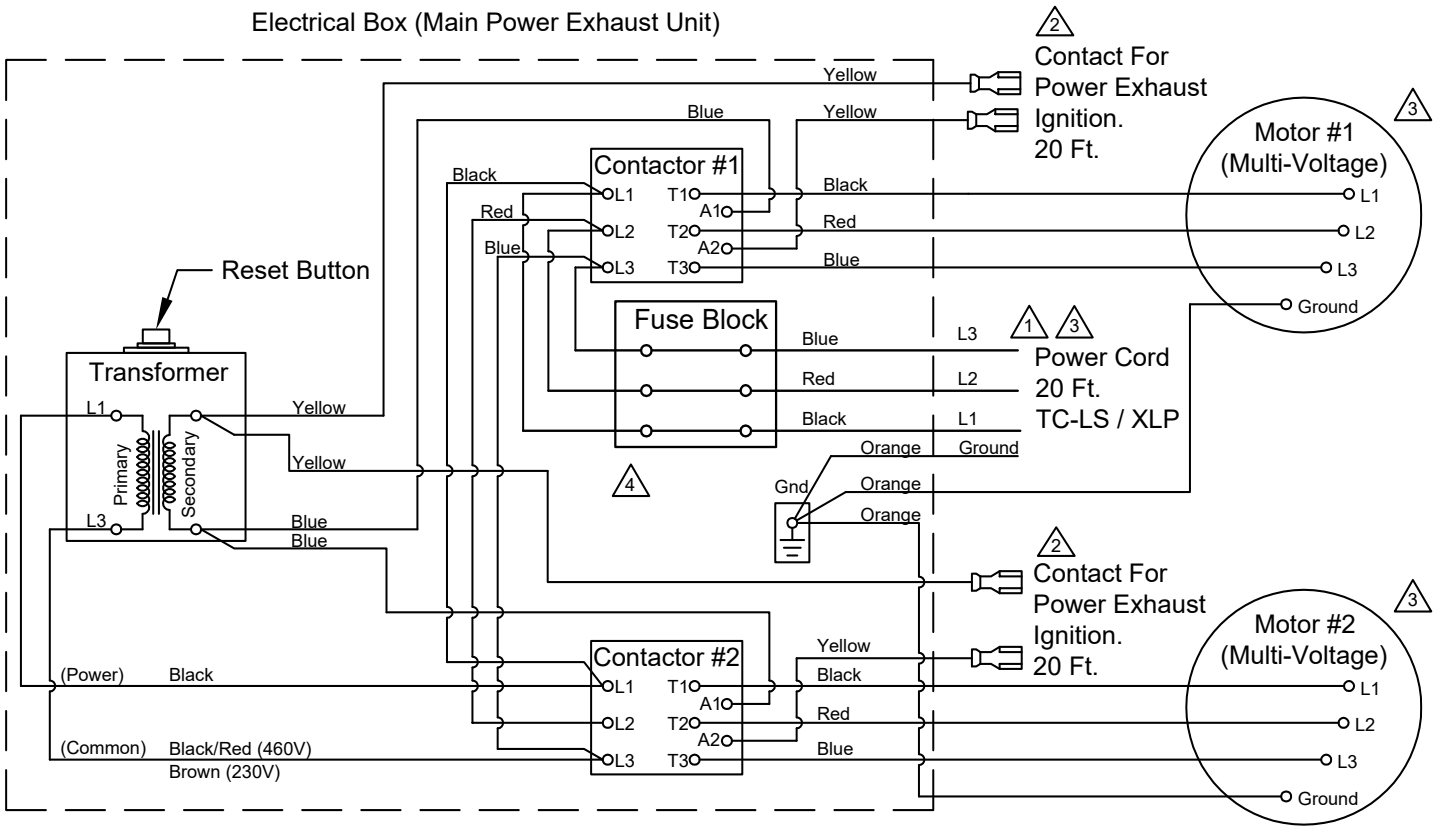
ILL. 4



ILL. 3



ILL. 5 - Constant Volume Power Exhaust Wiring Option



1 Power Supply. Provide disconnect means and circuit protection as required. See power exhaust name plate for electrical ratings. If local codes allow connecting to the HVAC unit power, make sure the disconnect and incoming wiring are sized to handle the load of both the HVAC unit and the power exhaust.

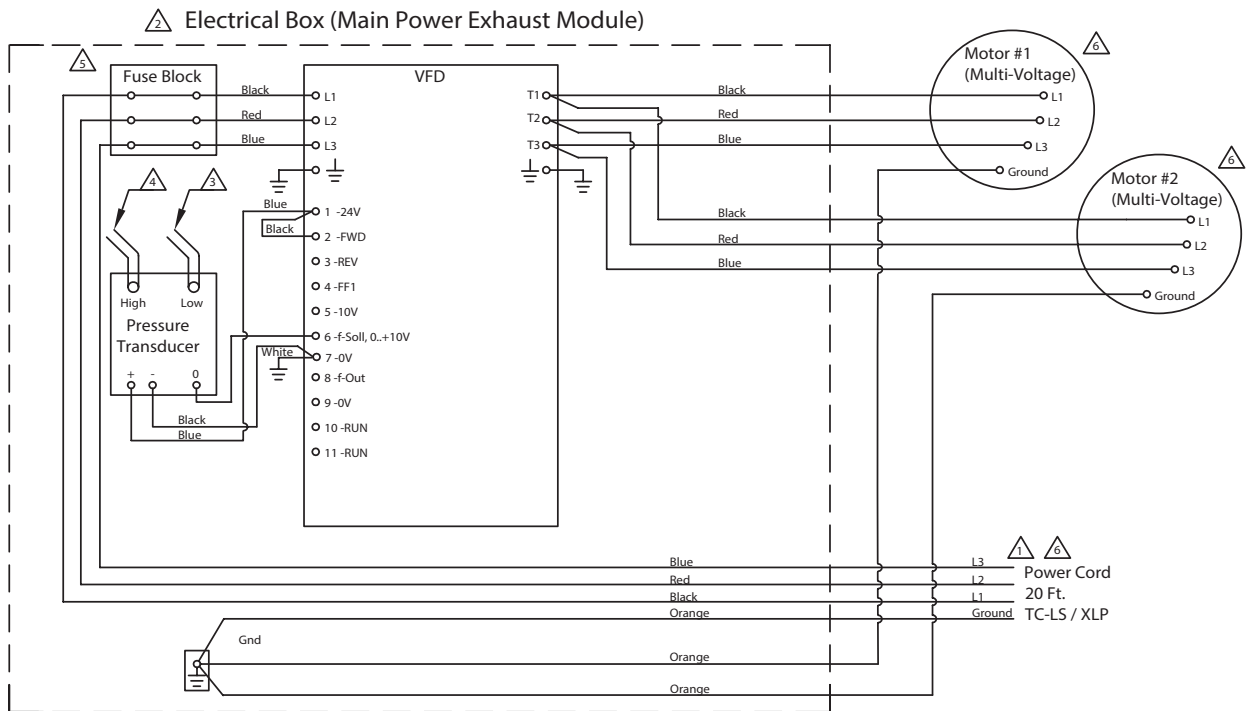
To determine MCA with power exhaust: $\text{New MCA} = \text{MCA of Unit Only} + \text{MCA of Power Exhaust}$

2 Field required.

3 For voltage, refer to label on exterior of power exhaust cabinet.

4 For fuse size, refer to label on the exterior of power exhaust cabinet.

ILL. 6 - Modulating Power Exhaust Option Wiring



- △ Power Supply. Provide disconnect means and circuit protection as required. See power exhaust name plate for electrical ratings. If local codes allow connecting to the HVAC unit power, make sure the disconnect and incoming wiring are sized to handle the load of both the HVAC unit and the power exhaust.

To determine MCA with power exhaust: $\text{New MCA} = \text{MCA of Unit Only} + \text{MCA of Power Exhaust}$

- △ Transformer, contactor and fuses are to be in a NEMA type electrical enclosure.
- △ Factory mounted 3/16" low pressure tubing.
- △ 25 feet of 3/16" high pressure tubing and connection port provided for field mounting in conditioned space. Architectural finishing field provided. (Follow local codes.)
- △ For fuse size, refer to label on the exterior of power exhaust cabinet.
- △ For voltage, refer to label on exterior of power exhaust cabinet.
- △ Field required.

The two blower modulating power exhaust are connected to a motor controller (VFD) that varies the speed to maintain an acceptable conditioned space pressure. The power exhaust system includes a low pressure transducer that compares room pressure to atmospheric. This transducer sends a signal to the motor controller (VFD) which varies the motor frequency in order to provide pressure relief.

1. Install 3/16" pressure tubing as per wiring diagram making sure it is not located near any S/A or R/A diffuser or door.
2. The VFD is factory pre programmed to accept the 0 to 10 VDC signal through the pressure transducer.

Table 1 - Pressure vs. VFD Frequency

Transducer Output Signal (VDC)	Conditioned Space Pressure (Inch W.G.)	VFD Setting (Hz)
0	0	0
1	0.01	10
2	0.02	20
3	0.03	30
4	0.04	40
5	0.05	50
6	0.06	60
7	0.07	70
8	0.08	80
9	0.09	90
10	0.10	100

VFD is factory set at 0.04 inches w.g. To change setting, press and hold "OK" to access the programming menu; up/down to display P-45, hit "OK" move arrows up/down to set desired frequency that determines pressure requirement, then press "OK" to save parameter.