



48/50PG16

Single-Package Rooftop Units Propeller Power Exhaust Accessory

Installation Instructions

Part Numbers: CRPWREXH046A00, CRPWREXH047A00, CRPWREXH050A00

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform basic maintenance functions of cleaning coils and filters and replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguishers available for all brazing operations.

GENERAL

IMPORTANT: Read these instructions completely before attempting to install the accessory power exhaust.

The propeller power exhaust accessory will provide system exhaust to nominal 67% of return air (vertical only) when used with an economizer. The power exhaust accessory can be installed on units with *ComfortLink*[™] controls (CRECOMZR036A00 vertical economizer or CRECOMZR037A00 horizontal economizer) and units with electromechanical controls (CRECOMZR040A00 vertical economizer or CRECOMZR043A00 horizontal economizer). The shipping weight is 50 lb.

PACKAGE USAGE

UNIT 48/50PG	PART NUMBER	VOLTAGE TYPE
16	CRPWREXH046A00	208/230
	CRPWREXH047A00	460
	CRPWREXH050A00	575

PACKAGE CONTENTS

QTY	CONTENTS
1	Power Exhaust Assembly*
1	Hardware Bag

*CRPWREXH050A00 assembly includes a factory-installed transformer for 575-v units.

INSTALLATION

⚠ WARNING

Turn off unit power and lock out. Electrical shock and personal injury could result.

IMPORTANT: The power exhaust should be installed at the same time the economizer is installed. Refer to the accessory economizer installation instructions for more information on installing the economizer.

Install Power Exhaust — To install the power exhaust, perform the following:

1. Make sure power supply is turned off and lockout tag is installed.
2. At this time, due to the economizer installation, the return air cover should be removed and the economizer should be placed in front of the unit. See Fig. 1 and 2.
3. Remove the cover plate from the side of the economizer assembly. See Fig. 3.
4. Set the power exhaust assembly next to the economizer. Route the power exhaust plug/harness through the hole where the cover plate was removed.
5. Secure the power exhaust assembly to the economizer with the 4 screws provided. See Fig. 1 and 2.
6. Connect the power exhaust harness plug to the unit power exhaust harness. See Fig. 4 and 5 for wiring.
7. The power exhaust is powered from the base unit. The addition of a power exhaust may impact wire sizing and overcurrent protection. Refer to the base unit installation instructions for unit MCA (minimum circuit amps) and MOCP (maximum overcurrent protection) electrical data. If a separate power supply is used, disconnect power wires from the indoor fan contactor. Refer to the base unit power schematic for location. Pull wires from control box area. Provide a separate field-supplied junction box and disconnect. Refer to Table 1 for wire sizing and fuse protection. A transformer is factory-installed in the accessory for 575-v units.
8. Complete economizer installation. Install the return air panel with hoods over the economizer. Figures 6-9 show the economizer and power exhaust installed in the unit.
9. Remove lockout tag and return power to unit. The *ComfortLink* control must now be configured to use the power exhaust.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

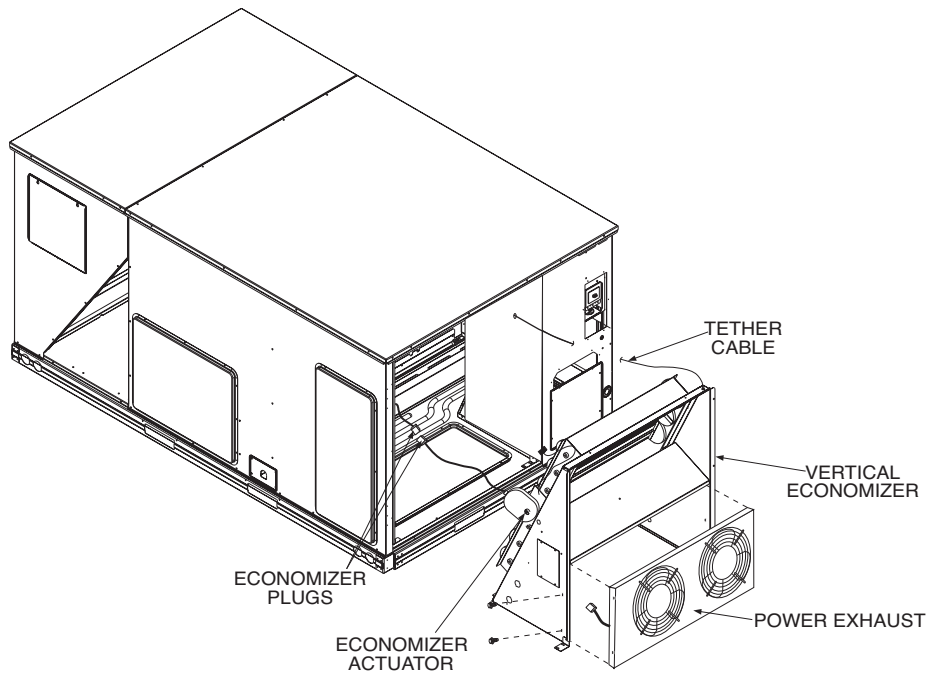


Fig. 1 — Installation with Vertical Economizer

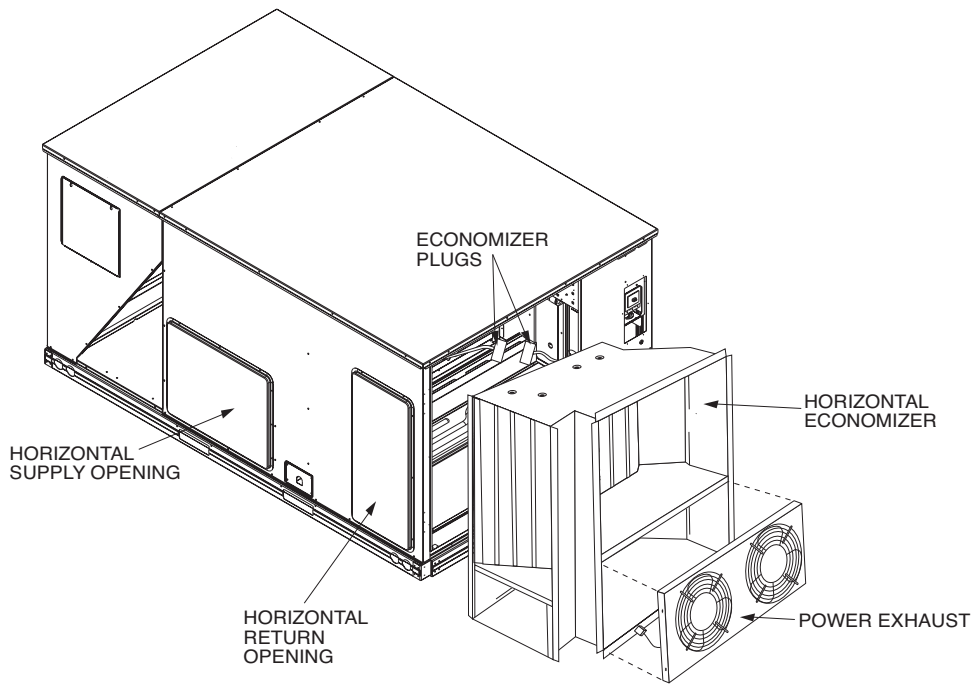


Fig. 2 — Installation with Horizontal Economizer

Table 1 — Power Exhaust Electrical Data

POWER EXHAUST PART NO.	MCA (230 v)	MCA (460 v)	MCA (575 v)	MOCP (for separate power source)
CRPWREXH046A01	1.5	N/A	N/A	15
CRPWREXH047A01	N/A	1.8	N/A	15
CRPWREXH050A01	N/A	N/A	0.64	15

LEGEND

- MCA** — Minimum Circuit Amps
- MOCP** — Maximum Overcurrent Protection
- N/A** — Not Available

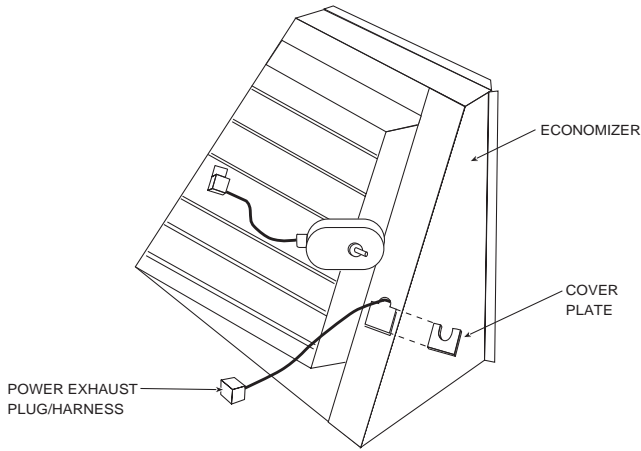


Fig. 3 — Cover Plate Removal

POWER EXHAUST ACCESSORY

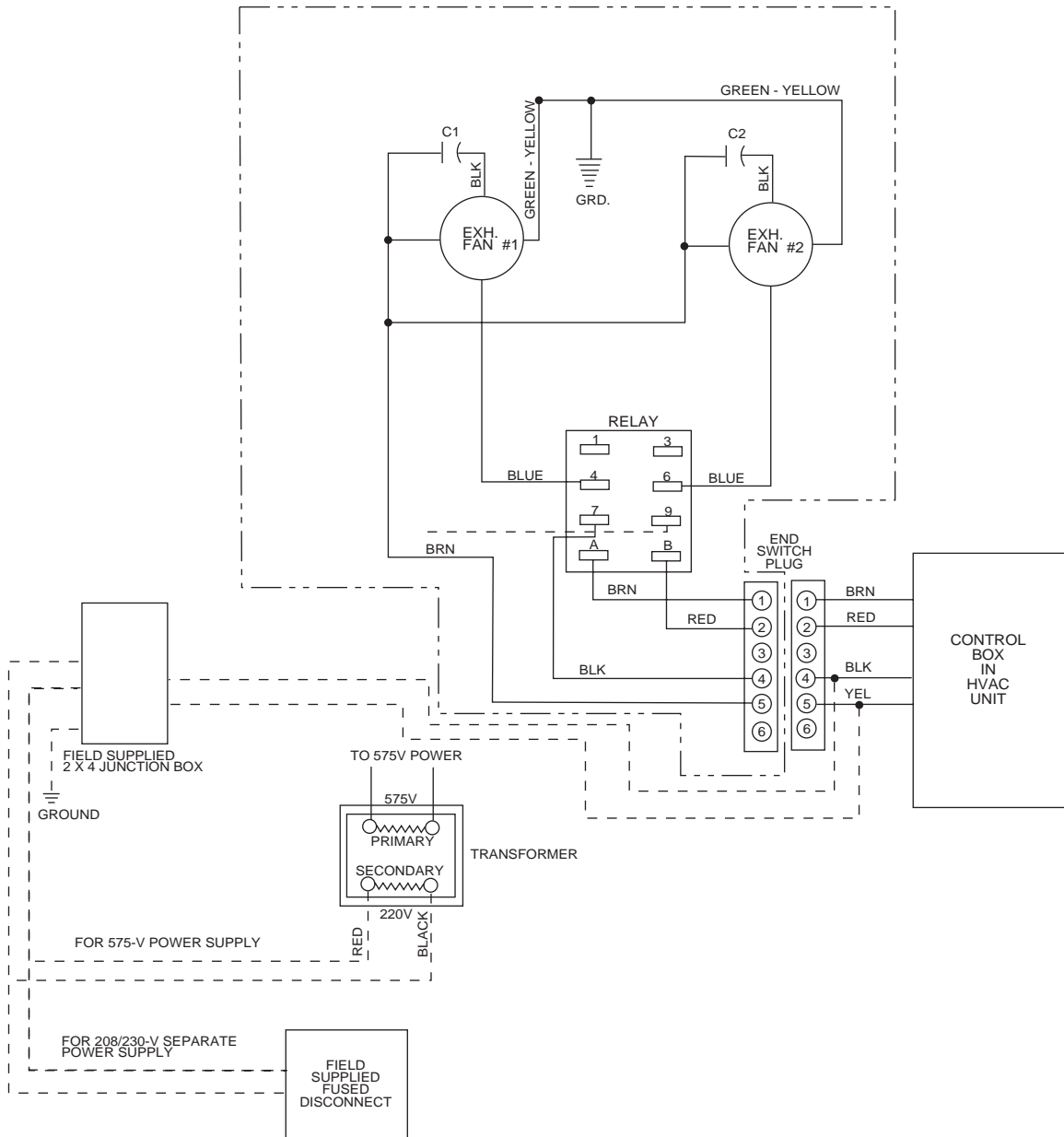


Fig. 4 — Power Exhaust Wiring — 208/230-v and 575-v Units

POWER EXHAUST ACCESSORY

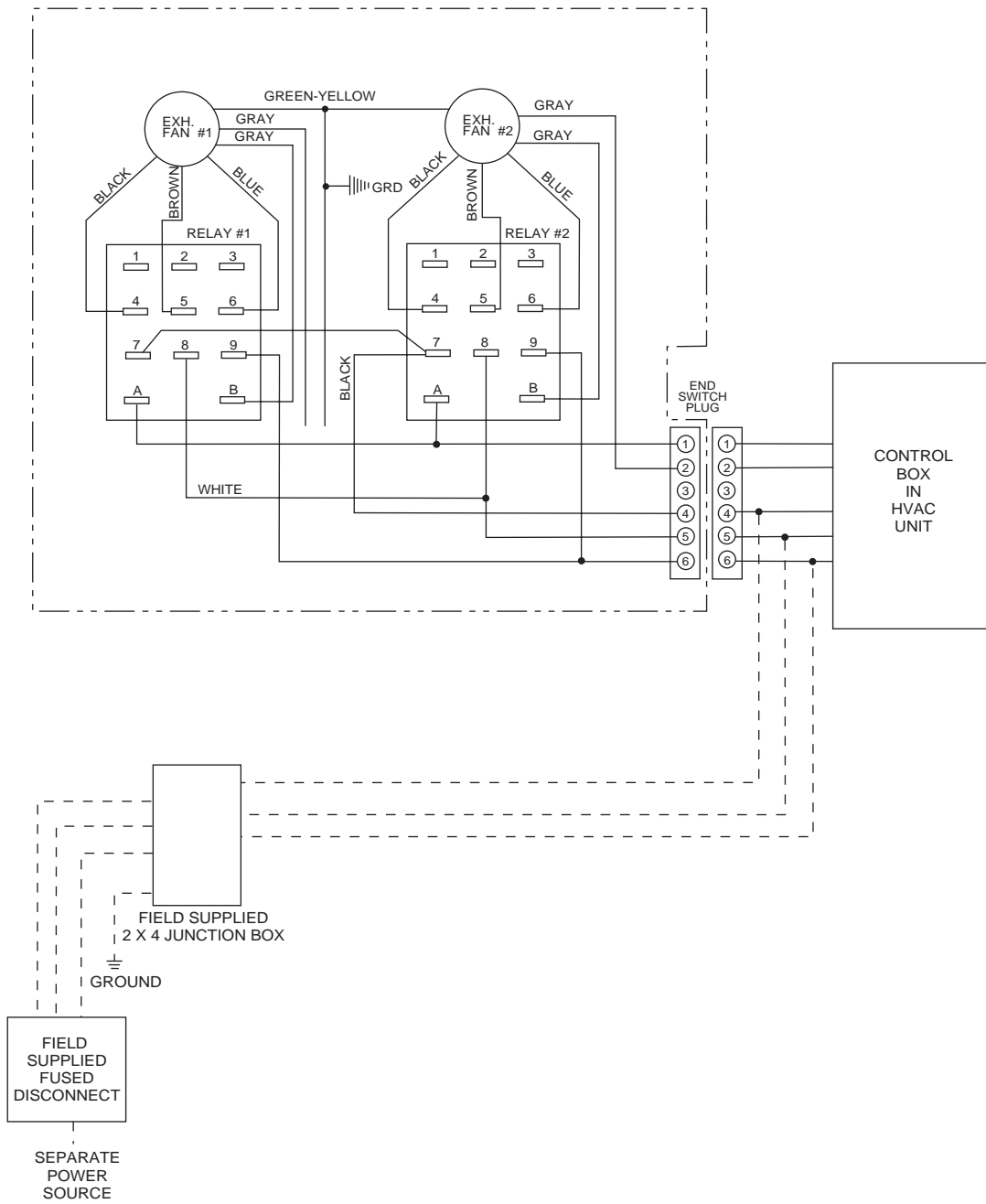


Fig. 5 — Power Exhaust Wiring — 460-v Units

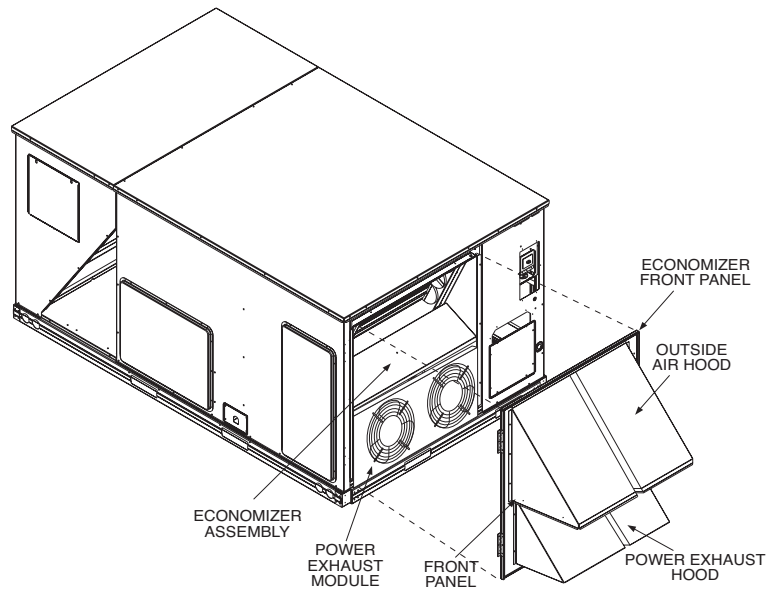


Fig. 6 — Vertical Economizer and Power Exhaust Installed in Unit

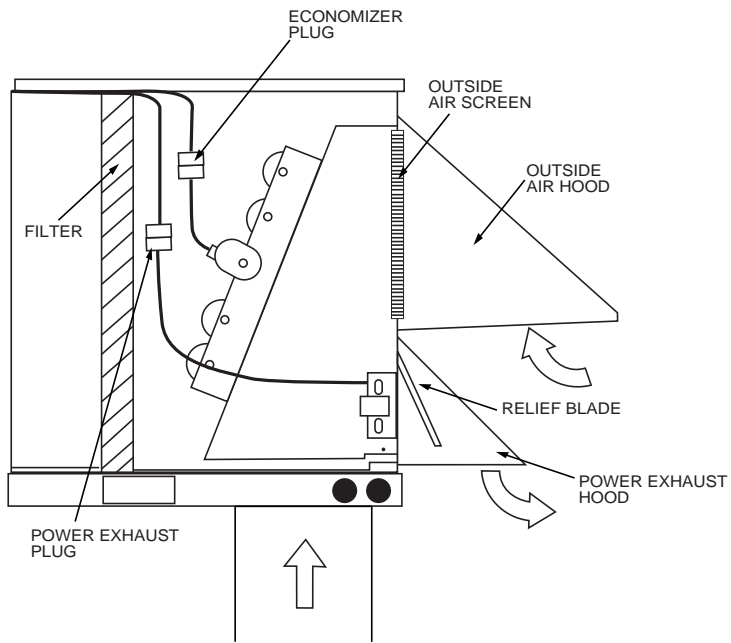


Fig. 7 — Side View of Vertical Economizer and Power Exhaust

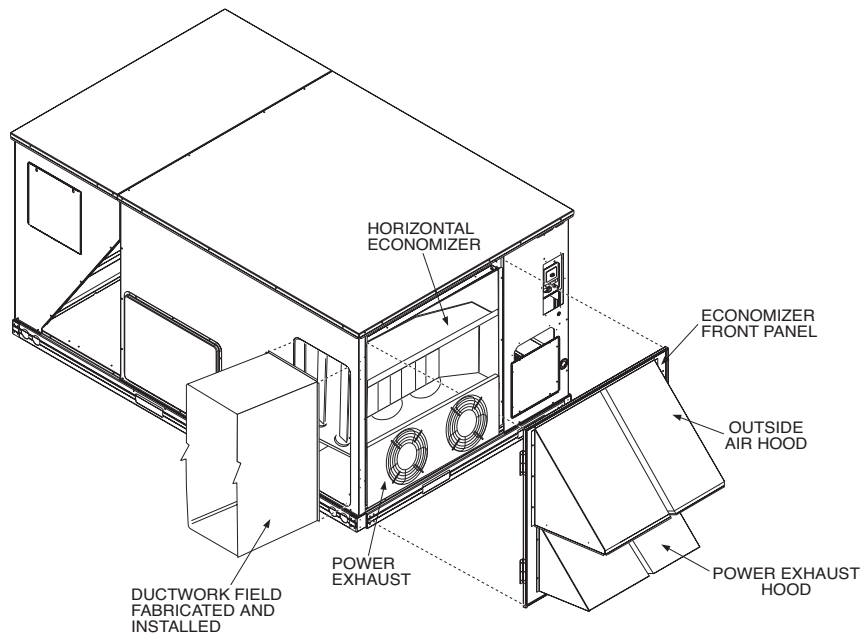


Fig. 8 — Horizontal Economizer and Power Exhaust Installed in Unit

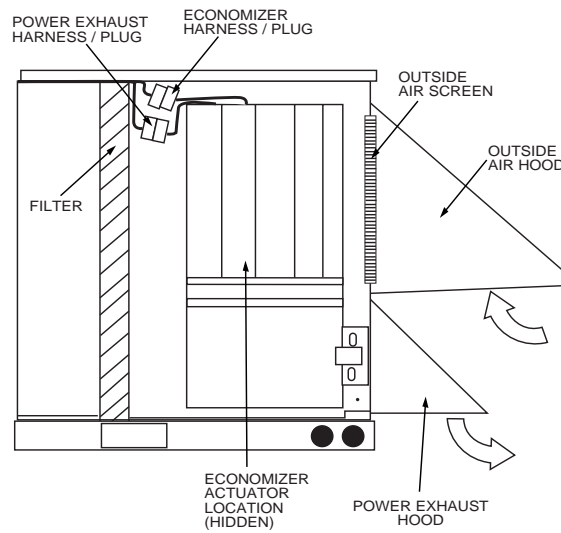


Fig. 9 — Side View of Horizontal Economizer and Power Exhaust

Configure the *ComfortLink*™ Control

1. The *ComfortLink* control can now be configured to operate the power exhaust. To do this, the unit must be configured for Power Exhaust Installed (PE.EN) and PE Stage 1 Econo Position (PE.1). These configurations are accomplished through the Scrolling Marquee display by using the Configuration menu.
2. The control system must be configured to use the power exhaust. A password may be required to edit the configurations, depending on the previous settings configured in the unit. Default password is “1111.”
3. To access the configuration, use the arrow keys to scroll the red LED on the display to the “Configuration” position and press **ENTER**. Use the arrow keys to scroll down until the display reads “ECON,” and press the **ENTER** key. At the Power Exhaust Installed setting (PE.EN), press **ENTER** twice. The display should be flashing “No.” Use the arrow keys to change the configuration to “Yes” and press **ENTER** and then **ESCAPE**.
4. Use the arrow keys to scroll down to the PE Stage 1 Econo Position setting (PE.1) and press **ENTER** twice. Use the arrow keys to increase or decrease the economizer position percentage that will start the power exhaust fans, and press **ENTER** and **ESCAPE**. Default

setting is 40%. For one-stage power exhaust control, it is recommended to change the position percentage to 60%.

5. Configuration of the power exhaust is now complete. Pressing the **ESCAPE** key several times will return the display to the auto scroll setting.
6. Consult the Controls and Troubleshooting Guide for complete instructions on using the *ComfortLink* control system.
7. The unit is now ready for normal operation. See Fig. 10 for power exhaust performance.

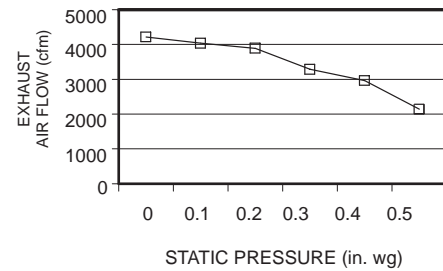


Fig. 10 — Power Exhaust Performance — 48/50PG16

