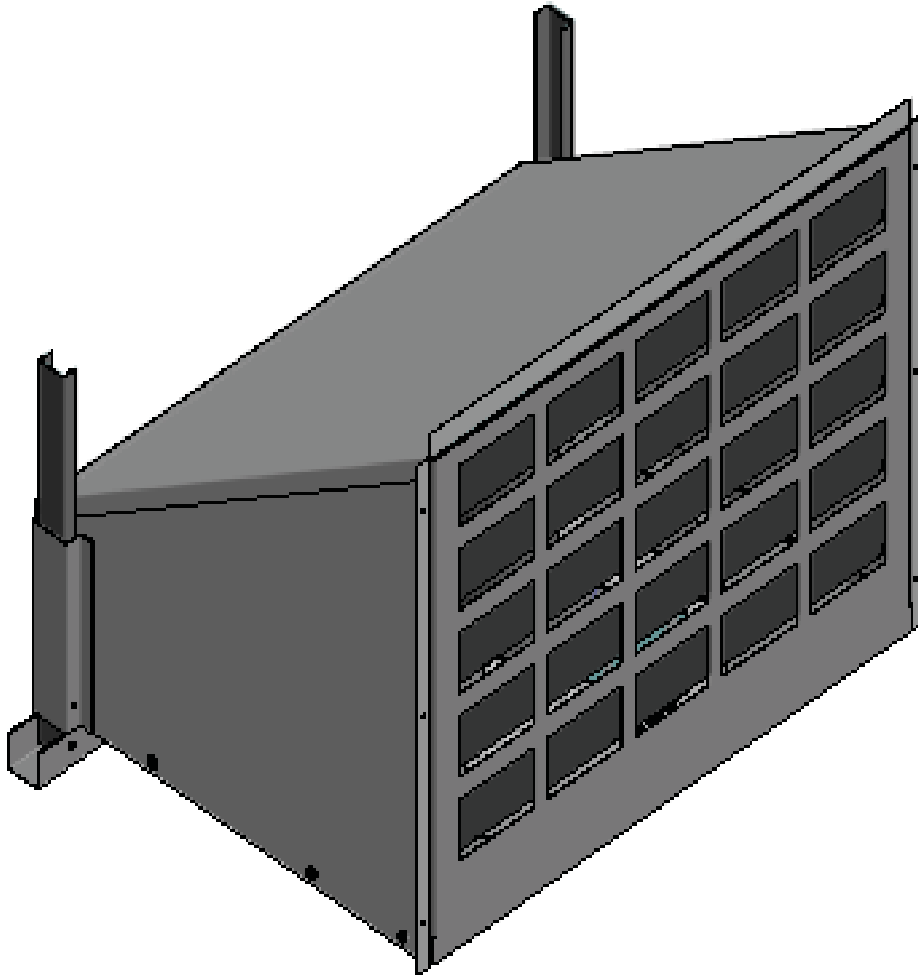


# PE90150 INSTALLATION AND OPERATION GUIDE



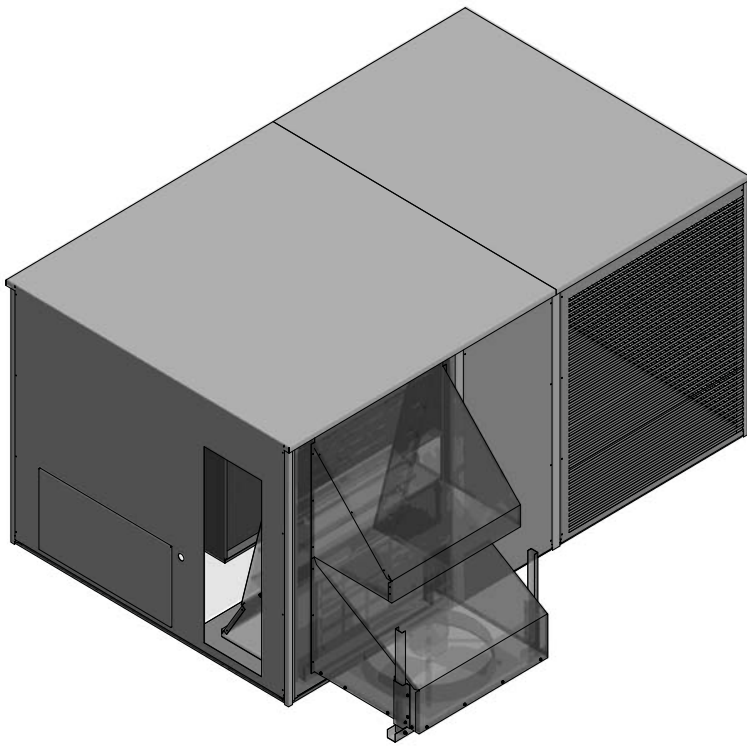
## INSTALLATION WITH ECONOMIZER

1. Open carton and inspect contents for shortages and damage.
2. Disconnect the power to the unit.
3. Remove the economizer fresh air hood and barometric relief hood.
4. Remove the horizontal duct cover panel.
5. Remove the barometric relief dampers from the economizer and discard.
6. Attach the power exhaust hood over the barometric relief opening.
7. Feed the line voltage leads to the control section of the package unit and attach them per the included wiring diagram.
8. Attach the low voltage control leads to the economizer controller per the included wiring diagram.
9. Adjust the exhaust set point. From the factory the power exhaust is set to engage when the fresh air dampers are open 70%.
10. Reinstall the fresh air hood.
11. Weather proof the fresh air hood and power exhaust hood using approved methods.
12. Reinstall the horizontal duct cover panel.

## SEQUENCE OF OPERATION

This sequence assumes employment of a single enthalpy economizer using a two stage thermostat.

1. A call for cooling comes from room thermostat.
2. The enthalpy sensor determines if the atmospheric conditions are conducive for using outside air for cooling. If YES, the fresh air damper section of the economizer begins to open.
3. When the fresh air dampers are open approximately 70% of their full open capacity, the power exhaust contacts make and energize the fan motor to draw air through the return air from the space. There is a 60 +/-30 second time delay built into the economizer control before the fan motor actually energizes.
4. When the dampers modulate below the 70% open position due to a satisfied thermostat or atmospheric conditions, the power exhaust disengages immediately.



### CONTENTS

1	Power Exhaust Hood
1	12 ga. Wire Harness
1	Installation Instructions

Model	Voltage	Motor				
		HP	RPM	Type	FLA	Speeds
PE901502	208/230-1-60	1/2	1075	Direct Drive	2.4	1
PE901504	460-1-60	1/2	1075	Direct Drive	1.2	1
PE901507	575-1-60	1/2	1100	Direct Drive	1.0	1

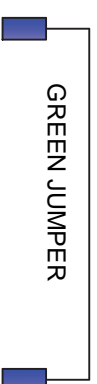








CONNECT TO EF AND TR ON W721X CONTROLLER

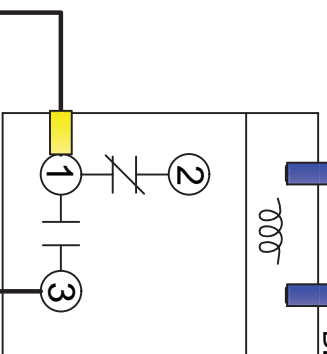


RED (24 VAC) ATTACH TO EF1 ON W721X CONTROLLER

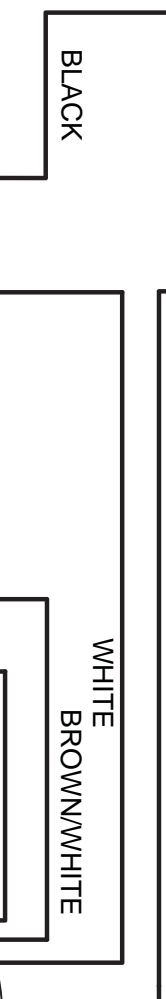


# PE901507 LOW VOLTAGE

1K  
RELAY  
CONTACTS



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BLACK

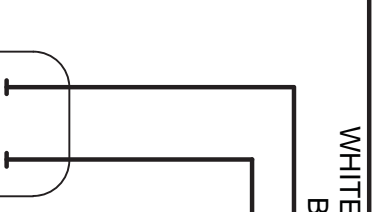
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TO UNIT  
TERMINAL  
BLOCK

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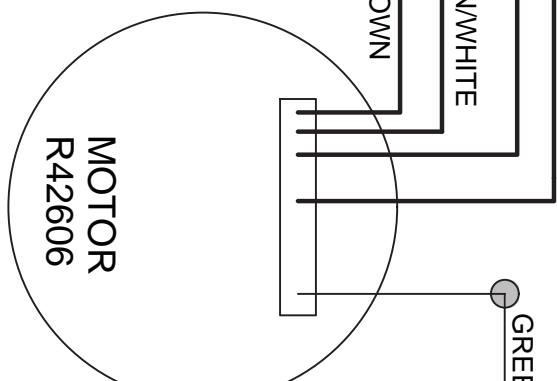
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CAPACITOR  
7.5X370 MFD

WHITE  
BROWN/WHITE

BROWN



MOTOR  
R42606

GREEN

GROUND  
LUG

575V