

**Warren Electric
Heater Model
WPAX Series**

**INSTALLATION AND OPERATING
INSTRUCTIONS**



**Intercity Products
Package Units
PA5524-60/PAPA24-60
PH5524-60/PYPA24-60
PA9524-48/PAPC24-48
Series**

GENERAL

This Warren Technology electric heater is engineered, designed, and U.L. approved to be installed in the Intercity Products mobile home unit PA55/PAPA, PH55/PYPA, and PA95/PAPC (24 through 60) single package units. This heater unit was designed to prevent moisture build up on the heater assembly unit and electrical parts. Before proceeding, check the heater label for correct voltage and KW requirements.

Installation and servicing of this equipment should only be performed by trained and qualified personnel. Before proceeding with the heater installation, inspect thoroughly for shipping damage. Notify the shipper immediately if any damage is found. Check all porcelain insulators for breakage and inspect heater element wire to see that none have been deformed. Clean all dirt, dust, and moisture from equipment. Check for proper clearances of live parts, between phases, and to ground. Make sure that all required barriers are in place. Check conductors run in multiple to insure that they are properly wired. Refer to installation instructions for complete unit installation details.

WARNING !

Before performing service or maintenance operations on system, turn off all main power switches. There may be more than one disconnect. Turn off accessory heater power switch if applicable. Electrical shock can cause personal injury. **TAG DISCONNECT SWITCH(ES) WITH A SUITABLE WARNING LABEL.**

HEATER INSTALLATION

INSTALL HEATER AS FOLLOWS:

1. Refer to the base unit installation instructions as required. Affix Warren Installer label to equipment access panel.
2. Remove blower section access panel of air handler.
3. Remove cover plate in front of blower assembly.
 - 15 KW HEATERS NOT TO BE OPERATED ON LOW BLOWER SPEED TAP FOR PA5530/PAPA30, PH5530/PYPA30 AND PA9530/PAPC30.
 - 20 KW HEATERS NOT TO BE OPERATED ON LOW OR MEDIUM. LOW BLOWER SPEED TAP FOR PA5536/PAPA36 & 42, PA9536/PAPC36 & 42 AND PH5536/PYPA36 & 42.
4. Slide heater assembly into blower section through the access opening. Secure heater into place with screws from cover plate.
5. Remove the conduit knockout in unit cabinet for electrical connections. Install the appropriate size conduit connector.

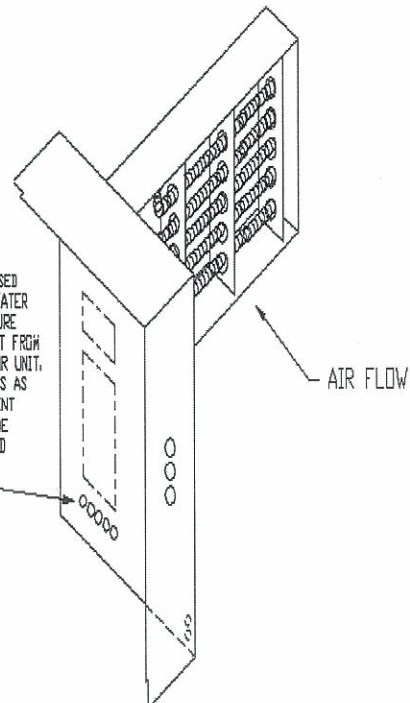
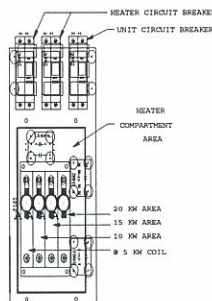


FIG 1 - HEATER CABINET

HEATERS WITH CIRCUIT BREAKERS:

**NOTE: CIRCUIT BREAKERS MUST BE COVERED. (COVER PLATE PROVIDED)
CIRCUIT BREAKERS MUST BE SEALED TIGHT TO AVOID ELECTRICAL SHOCK.**

1. Circuit breakers are rated for heater only. Unit circuit breaker space is provided.
2. Remove circuit breaker knockout(s) in unit access panel as required. Cut out insulation in opening. Mount circuit breaker with two screws using mounting holes provided.

WARNING ⚠

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ELECTRICAL CONNECTIONS

CONNECT HEATER AS FOLLOWS:

1. All electrical connections, wire sizes and type of conduit sizes shall meet the National Electric Code, State and Local Codes. Main power supply, Minimum wire sizes, circuits, fusing, etc. is shown on schematic wiring diagrams. **NOTE: Use copper wire only.**
2. Refer to base unit instructions for recommended wiring procedures.
3. Connect heater plug to corresponding plug in the air handler.
4. Separate all wires from incoming power leads.
5. Be sure that all electrical terminal connections, clamps, screws, etc. are tight before proceeding.
6. Check wiring supplied with heater for specific connections and information.
7. Check operation as described in start-up section.

START-UP and CHECK-OUT

CAUTION: Before proceeding, verify that all wiring is correct per factory approved schematic. Notify factory immediately of any discrepancies.

1. Refer to base unit installation instructions as required.
2. Check for loose terminal connections.
3. Check that all circuit breaker short circuit interrupting ratings are adequate.
4. Turn on unit and heater power.
5. Set thermostat to call for heat.
6. Check operation of heater.
7. Check that air flow across heater is at or above minimum recommended fan speed. Adjust as required.
8. Any modifications or repairs to this equipment without written permission from the factory will be done at the installer's own risk and expense.

SERVICE

Circuit Breakers - Malfunction will interrupt power to the unit. *Check for cause of failure, restart.*

Limit Switch - Malfunction prevents heating element(s) from being energized. *Replace switch if malfunction occurs.*

Sequencers - Malfunction will not allow heater to come on or shut off. *Replace faulty sequencers. Do not attempt to replace coil or dress contacts.*

ELECTRIC HEATER PACKAGE CONTENTS

1. Heater assembly
2. Installation Instructions
3. Installer label
4. Schematic

