

<p align="center"><b>Electric Heater Model WQJ Series</b></p>	<p align="center"><b>INSTALLATION INSTRUCTIONS</b></p> <p align="center">Date: 05/04/2018</p>	<p align="center"><b>Models</b>  <b>RSKJ, RSMJ, RSNJ, RSNM, RSPM</b>  024-060 Packaged A/C  <b>RQNM, RQPM, RQNJ, RQRM</b>  024-060 Packaged HP</p>
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## GENERAL

This Warren Technology electric heater is designed to be installed in the Rheem RSKJ, RSMJ, RSNJ, RSNM, RSPM packaged air conditioners / Rheem RQNM, RQPM, RQNJ packaged heat pumps / FUJITSU RQPM, RQRM heat pumps. The **WQJ** heater comes in two parts; a control plate and an heater element section. Before proceeding, check the heater label for correct voltage and KW requirements. Refer to base unit installation instructions for complete unit installation details. **Verify that all elements are properly secure in their ceramic holders. WARNING:** Use of other than specified duct materials may pose a fire hazard. Use sheet metal or U.L. 181 listed flexible duct.

## HEATER INSTALLATION

**CAUTION:** Disconnect all electric power before proceeding. Failure to do so may result in electrical shock. The unit must have an uninterrupted or unbroken electrical ground to minimize personal injury if an electrical fault should occur. Ground may consist of an electrical wire or approved conduit when installed in accordance with local codes and ordinances.

1. Inspect the heating elements to verify that shipping and handling have not shorted elements to grounded metal parts.
2. Remove blower assembly top cover and control box access cover (see fig.1).
3. Remove the wire notch cover from control bulkhead and discard . Retain screw.
4. Remove and discard the heating element cover plate attached to the blower top plate. Retain (4) screws for use on mounting the heater).
5. Insert the heater element section into the blower outlet opening. Secure with screws retained in step 4 (see fig.2)
6. Route the heater element section wiring up to the control panel entry hole and secure it with wire clamps to keep it clear of moving parts. Secure wire notch in control bulkhead with screw retained in step 3 (see fig.1).
7. Install blower assembly top cover and control box access cover.

## HEATER FUSE BOX INSTALLATION

1. Remove screw from hinged fuse box cover. Retain screw.
2. Install the heater control fuse block assembly inside the unit control box with (3) screws provided (see fig. 3).
3. Inspect that the wire harness from the heating elements is properly routed through the wire notch in the unit control box. make all required electrical connection.

## ELECTRICAL CONNECTIONS

**NOTE: Heaters are factory wired for Single-point (S-version) connection or Dual-point connection.**

1. All electrical connections, wire sizes and type and conduit sizes shall comply with the National Electric Code and State and Local Codes. Recommended minimum wire sizes, circuit fusing, etc. are listed on the corresponding schematic diagram. **USE COPPER CONDUCTORS ONLY.**



FIG. 1 - Access covers removed



FIG. 2 - Installed element section.

2. Make all wire spliced connections inside unit control box. Separate all wires from incoming power leads. Route wires away from uninsulated parts. **Verify that there are no possible shorts to ground.**
3. Connect the heater kit **6-pin control plug** to the **6-pin receptacle** in the control box (see fig.3).
4. **High voltage power installation:**
  - a) Single Point Models: Connect high voltage power leads to the L1 and L3 markings on the heater kit fuse block. Connect unit power pigtailed from the heater kit fuse block to the L1 and L3 connection points on the unit contactor.
  - b) Dual Point Models: Connect high voltage power leads to the L1 and L3 markings on the heater kit fuse block. Connect the second set of high voltage field power leads to L1 and L3 connection points on the unit contactor.
5. Factory branch circuit wiring and fusing is in accordance with the National Electrical Code maximum of 48 amps per circuit. Heaters with factory installed circuit breakers may be installed on a branch circuit protection by a circuit breaker. For all other heater, the branch circuit must be protected by a fuse or a circuit breaker supplied by others.

## START-UP and CHECK-OUT

**CAUTION: Before proceeding, verify that all wiring is correct per factory approved schematic. Notify factory immediately of any discrepancies. Improper installation may damage equipment.**

1. Check that all fuse and circuit breaker short circuit interrupting ratings are adequate.
2. With thermostat set to the "Off" position, turn on unit and heater power.
3. Set thermostat to call for heat and check operation of heater.  
**NOTE:** There is an inherent delay before the blowers and first element will energize.
4. Check for proper thermostat operation.
5. Check that air flow across heater is at or above minimum recommended fan speed. Adjust as required.
6. Any modification or repair to this equipment without written permission from the factory will be done at the installer's own risk and expense.

### PACKAGE CONTENTS:

- 1) Heater kit.
- 2) Installation Instructions.
- 5) Heater and Control assembly.
- 6) (8) mounting screws.



FIG. 3 - Fuse box installation.