# INSTALLATION INSTRUCTIONS FOR BRC SERIES HEATER KITS

## IN RHEEM/RUUD/WEATHERKING/DAYTON, ( )RC(F/G)

## 7.5 thru 20 TON PACKAGE AIR CONDITIONERS.

**WARNING: DISCONNECT ALL POWER BEFORE STARTING INSTALLATION**

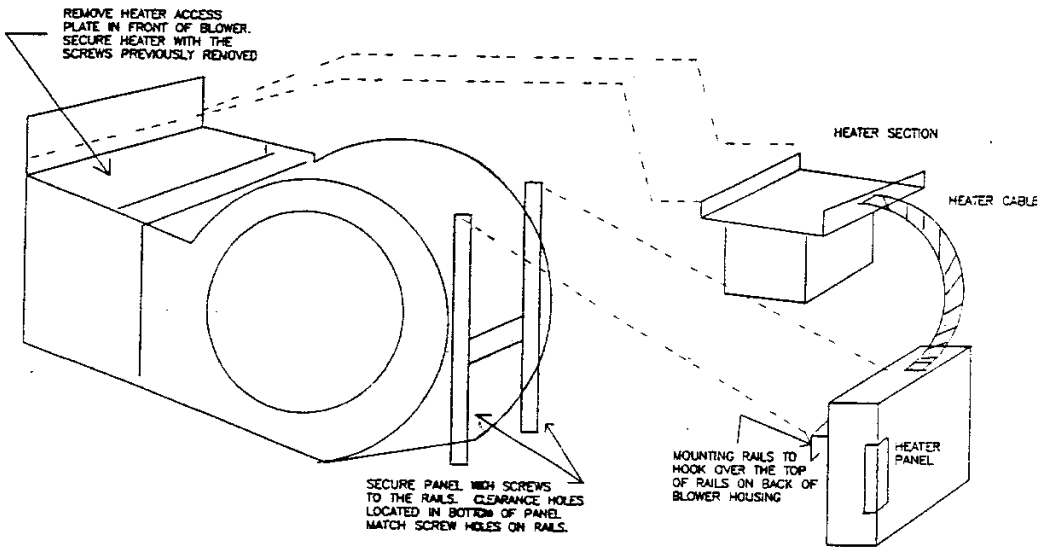
**Remove the Blower Compartment access panel. Remove the top panel from the blower discharge. The Heater will go in that space. Hanger Rails are provided on the back of the Heater Control Box that slip over the vertical angles that support the Unit Blower. Hang the box over the angles while installing the Heater section. See Diagram below.**

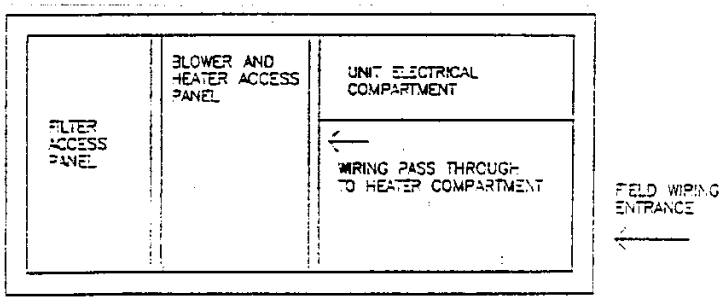
**Lift Heater over the blower and then forward until it can lower into the blower discharge. Use care so that you do not tear Unit insulation. Secure Heater in place with screws previously removed. Secure Heater Control box through holes near the bottom of the box that match holes in Blower supports.**

**Insert the heater controls plug into matching unit receptacle.**

**The Terminal Block in the Heater control box can provide an optional single point power supply - Wires for the A/C Unit would be extended from the load side of the Terminal Block to the A/C Unit controls compartment. Supply wire must be copper and sized for the larger of the Heater or A/C loads. See next page for method of calculation of field wiring and fusing. Fill out and attach labels provided next to the A/C unit rating labels.**

**THE FIELD SUPPLY WIRING AND GROUNDING MUST BE IN ACCORD WITH THE NATIONAL ELECTRIC CODE, ANSI/NFPA 70-1993 AND ANY OTHER LOCAL ORDINANCE REQUIREMENTS.**




BTU ELECTRIC HEATERS

## CALCULATION INFORMATION

**SEPARATE HEATER ELECTRICAL SUPPLY:**
**Heater Amps times 1.25 is minimum circuit ampacity. Minimum circuit ampacity rounded up to the nearest standard protective device rating is maximum circuit protection.**

**COMBINED ELECTRICAL SUPPLY - COOLING ONLY UNITS:**
**Heater amps times 1.25 plus 6 is minimum circuit ampacity. Minimum circuit ampacity rounded up the nearest standard protective device rating is maximum circuit protection. COMPARE to Air Conditioners Label. Write in the LARGER of the two ratings.**

**COMBINED ELECTRICAL SUPPLY - HEAT PUMPS:**
**Add heater amps to Heat Pump minimum circuit ampacity for a new total minimum ampacity. Minimum circuit ampacity rounded up to nearest standard protective device rating is maximum circuit protection.**

**STANDARD PROTECTIVE DEVICE RATINGS: 10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90 and 100 amps.**

**EXAMPLE:**
**Install a 47.1 amp heater in a heat pump and use combined single electric supply.**

**If Unit nameplate minimum circuit ampacity 35 - this makes the combined minimum ampacity (35 + 41.7) of 76.7 amps.**

**76.7 amps rounded up to nearest standard rating (80 amps). The combined maximum protective device is 80 A.**