# MODEL C-RHGA
# CLOSE COUPLED INSTALLATION INSTRUCTIONS

**These units have been SPECIFICALLY Tested and Listed by Applied Research Laboratories to attach DIRECTLY to the discharge of:**

| | |
|---|---|
| **Rheem** | **RHGA, RHPA, RHGB, RHGC, RHGD f/b 075 - 200 RHGE f/b 075 -100, RHGF 100** |
| **Ruud** | **UHGA, UHPA, UHGB, UHGC, UHGD f/b 075 - 200 UHGE f/b 075 - 100, UHGF 100** |
| **Dayton** | **MHGE f/b 075 - 100, MHGF 100** |
| **Weatherking** | **AC7.5T, AC10T, AC15T, AC20T, AH7.5T, AH10T, AH15T, AH20T** |
| **ComfortMaker** | **DB2000C** |

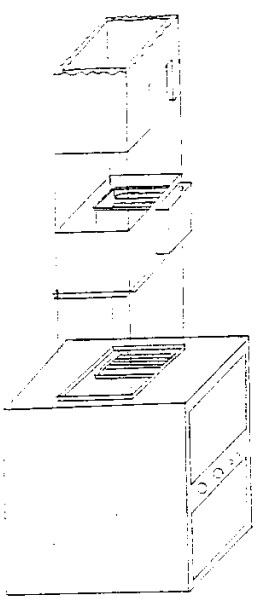
**ALL of the units have nominal 20 x 20 inch discharge duct connection. 15 & 20 ton units have two discharges and may use one or two C-RHGA heaters (one right and/or left). Heaters are suitable for Zero Clearance, with Heat Pumps and Air Conditioners, Vertical or Horizontal air flow.**

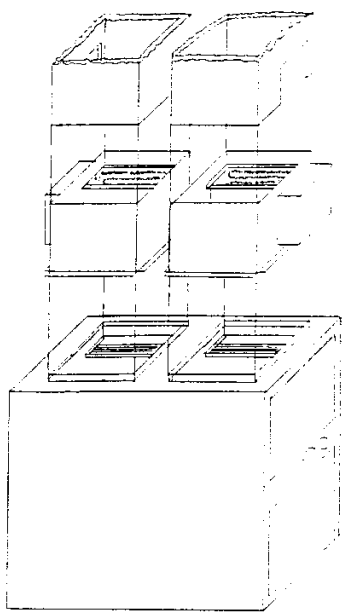
MODEL NUMBER: C-RHGA-KW-PHASE @ VOLTS - R or L
**KW range 2.1 to 40 per unit. Single or 3 Phase @ 208 - 480 volts.**
**Right (as shown on single unit drawing) or Left (as shown on dual discharge drawing).**

**Heaters must be at least 2 feet before an elbow or may require turning vanes. Duct materials must be suitable for 250 degrees F. Ducts must be installed in accordance with NFPA pamphlets 90A and 90B. Locate system so that heater is accessible after installation. Do not enclose the control box with insulation.**

**Important:**
**Locate heater package so the elements are over the blower wheel discharge. If the baffle is over the blower wheel severe loss of air flow will result.**

**Secure heater to air handler with screws. Seal the connection with tape or other means.**





**Some units have a COMBINED ELECTRICAL SUPPLY (see wiring diagram).**

**If your unit is not for combined electrical connection, the air handler must be connected separately using the OEM "fan relay" package. The Electrical Fan Interlock supplied in the heater will assure fan operation when the heater is operating.**

**COMBINED ELECTRICAL SUPPLY:**
**Add together the heater and blower amps and Multiply by 1.25 to get MINIMUM CIRCUIT AMPACITY. The next higher standard protection device is the MAXIMUM CIRCUIT PROTECTION. Standard devices are 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90 & 100 amps. Be sure to size field conductors for combined load.**

**EXAMPLE: A heater draws 41.7 amps, the blower is 16 amps.**
**41.7 + 16 = 57.7 57.7 X 1.25 = 72.1 (Minimum Circuit Ampacity)**
**Maximum Circuit Protection = 80A, and minimum THHN wire size is #2.**

**All field wiring entering the heater controls compartment must be suitable for 75C (167F).**
**Use Copper wire ONLY.**
**All wiring must be in accordance with National and Local codes. Control circuit is suitable for class 2 wiring. Control common must be supplied from condensing unit transformer.**
**Wiring from the heater compartment to the air handler is field supplied.**
**Be sure to run a ground wire between heater and air handler.**
**LABELS:**
**Use waterproof ink to fill in the Combined Electrical Supply information.**
**Attach label near heater rating label.**

**Attach provided label to air handler stating that the air handler / heater combination has been tested for close coupled operation.**

**CHECKOUT FAN ROTATION on 3 phase units. If blower is running backwards, just reverse any two motor lead wire connections.**