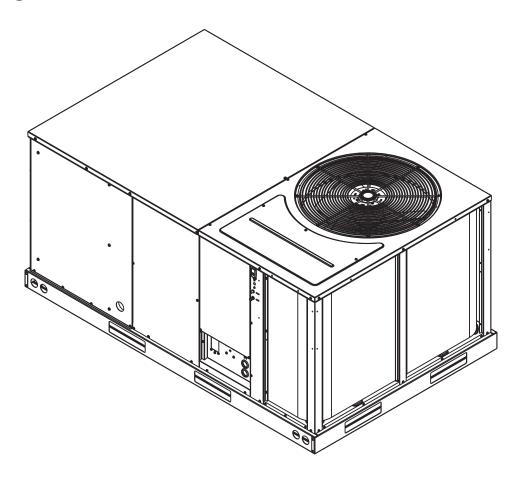
INSTALLATION INSTRUCTIONS

FOR PACKAGE AIR CONDITIONERS FEATURING INDUSTRY STANDARD R410A REFRIGERANT RLKN 6 TON





RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION!

WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED, LICENSED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THIS UNIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION OR OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN IMPROPER INSTALLATION, ADJUSTMENT, SERVICE OR MAINTENANCE POSSIBLY RESULTING IN FIRE, ELECTRICAL SHOCK, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



DO NOT DESTROY THIS MANUAL

PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE BY A SERVICEMAN



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WARNING

PROPOSITION 65: THIS APPLIANCE CONTAINS FIBERGLASS INSULATION. RESPIRABLE PARTICLES OF FIBERGLASS ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING

THE MANUFACTURER'S WARRANTY DOES NOT COVER ANY DAMAGE OR **DEFECT TO THE AIR CONDITIONER** CAUSED BY THE ATTACHMENT OR USE OF ANY COMPONENTS, ACCES-SORIES OR DEVICES (OTHER THAN THOSE AUTHORIZED BY THE MANU-FACTURER) INTO, ONTO OR IN CON-JUNCTION WITH THE AIR CONDI-TIONER. YOU SHOULD BE AWARE THAT THE USE OF UNAUTHORIZED COMPONENTS, ACCESSORIES OR **DEVICES MAY ADVERSELY AFFECT** THE OPERATION OF THE AIR CONDI-**TIONER AND MAY ALSO ENDANGER** LIFE AND PROPERTY. THE MANUFAC-TURER DISCLAIMS ANY RESPONSI-**BILITY FOR SUCH LOSS OR INJURY** RESULTING FROM THE USE OF SUCH UNAUTHORIZED COMPONENTS, **ACCESSORIES OR DEVICES.**

WARNING

DISCONNECT ALL POWER TO THE UNIT BEFORE STARTING MAINTE-NANCE. FAILURE TO DO SO CAN RESULT IN SEVERE ELECTRICAL SHOCK OR DEATH.

II. INTRODUCTION

This booklet contains the installation and operating instructions for your self-contained air conditioner. There are a few precautions that should be taken to derive maximum satisfaction from it. Improper installation can result in unsatisfactory operation or dangerous conditions.

Read this booklet and any instructions packaged with separate equipment required to make up the system prior to installation. Give this booklet to the owner and explain its provisions. The owner should retain this booklet for future reference.

III. CHECKING PRODUCT RECEIVED

Upon receiving the unit, inspect it for any damage from shipment. Claims for damage, either shipping or concealed, should be filed immediately with the shipping company. Check the unit model number, electrical characteristics, and accessories to determine if they are correct.

IV. EQUIPMENT PROTECTION FROM THE ENVIRONMENT

The metal parts of this unit may be subject to rust or deterioration in adverse environmental conditions. This oxidation could shorten the equipment's useful life. Salt spray, fog or mist in seacoast areas, sulphur or chlorine from lawn watering systems, and various chemical contaminants from industries such as paper mills and petroleum refineries are especially corrosive.

If the unit is to be installed in an area where contaminants are likely to be a problem, special attention should be given to the equipment location and exposure.

- 1. Avoid having lawn sprinkler heads spray direction on the unit cabinet.
- In coastal areas, locate the unit on the side of the building away from the waterfront.
- 3. Shielding provided by a fence or shrubs may give some protection.

Regular maintenance will reduce the buildup of contaminents and help to protect the unit's finish.

- Frequent washing of the cabinet, fan blade and coil with fresh water will remove most of the salt or other contaminants that build up on the unit.
- 2. Regular cleaning and waxing of the cabinet with a good automobile polish will provide some protection.
- A good liquid cleaner may be used several times a year to remove matter that will not wash off with water.

Several different types of protective coatings are offered in some areas. These coatings may provide some benefit, but the effectiveness of such coating materials cannot be verified by the equipment manufacturer.

The best protection is frequent cleaning, maintenance and minimal exposure to contaminants.

V. SPECIFICATIONS

A. GENERAL

The Combination Electric Cooling Rooftop with optional electric heat is available in cooling capacity of 6 nominal tons. Units are convertible from bottom supply and return to side supply and return by relocation of supply and return air access panels. See cover installation detail.

The units are weatherized for mounting outside of the building.

B. MAJOR COMPONENTS

The unit includes a hermetically-sealed refrigerating system (consisting of a scroll compressor, condenser coil, evaporator coil with thermostatic expansion valve), a circulation air blower, a condenser fan, and all necessary internal electrical wiring. The cooling system of these units is factory-evacuated, charged with R-410A refrigerant and performance tested. Refrigerant amount and type are indicated on rating plate.

C. R-410A REFRIGERANT

All units are factory charged with R-410A refrigerant.

1. Specification of R-410A:

Application: R-410A is not a drop-in replacement for R-22; equipment designs must accommodate its higher pressures. It cannot be retrofitted into R-22 units.

Pressure: The pressure of R-410A is approximately 60% (1.6 times) greater than R-22. Recovery and recycle equipment, pumps, hoses and the like need to have design pressure ratings appropriate for R-410A. Manifold sets need to range up to 800 psig high-side and 250 psig low-side with a 550 psig low-side retard. Hoses need to have a service pressure rating of 800 psig. Recovery cylinders need to have a 400 psig service pressure rating. DOT 4BA400 or DOT BW400.

Combustibility: At pressures above 1 atmosphere, mixture of R-410A and air can become combustible. **R-410A and air should never be mixed in tanks or supply lines, or be allowed to accumulate in storage tanks. Leak checking should never be done with a mixture of R-410A and air.** Leak checking can be performed safely with nitrogen or a mixture of R-410A and nitrogen.

- 2. Quick Reference Guide For R-410A
- R-410A refrigerant operates at approximately 60% higher pressure (1.6 times) than R-22. Ensure that servicing equipment is designed to operate with R-410A.
- R-410A refrigerant cylinders are pink.
- R-410A, as with other HFC's is only compatible with POE oils.
- Vacuum pumps will not remove moisture from POE oil.
- R-410A systems are to be charged with liquid refrigerants. Prior to March 1999, R-410A refrigerant cylinders had a dip tube. These cylinders should be kept upright for equipment charging. Post March 1999 cylinders do not have a dip tube and should be inverted to ensure liquid charging of the equipment.
- Do not install a suction line filter drier in the liquid line.
- · A liquid line filter drier is standard on every unit.
- Desiccant (drying agent) must be compatible for POE oils and R-410A
- 3. Evaporator Coil / TXV

The thermostatic expansion valve is specifically designed to operate with R-410A.

4. Tools Required For Installing & Servicing R-410A Models

Manifold Sets:

- -Up to 800 PSIG High side
- -Up to 250 PSIG Low Side
- -550 PSIG Low Side Retard

Manifold Hoses:

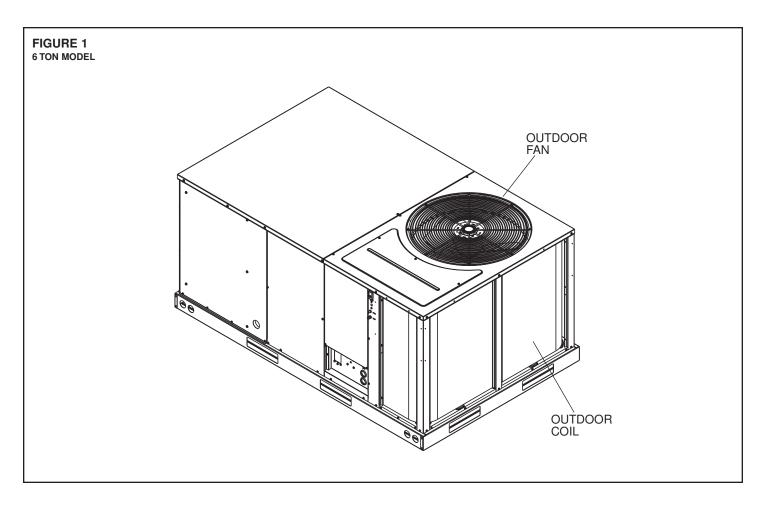
-Service Pressure Rating of 800 PSIG

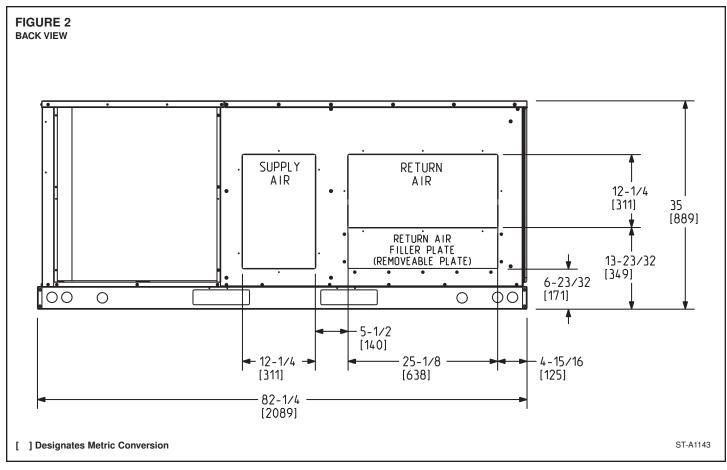
Recovery Cylinders:

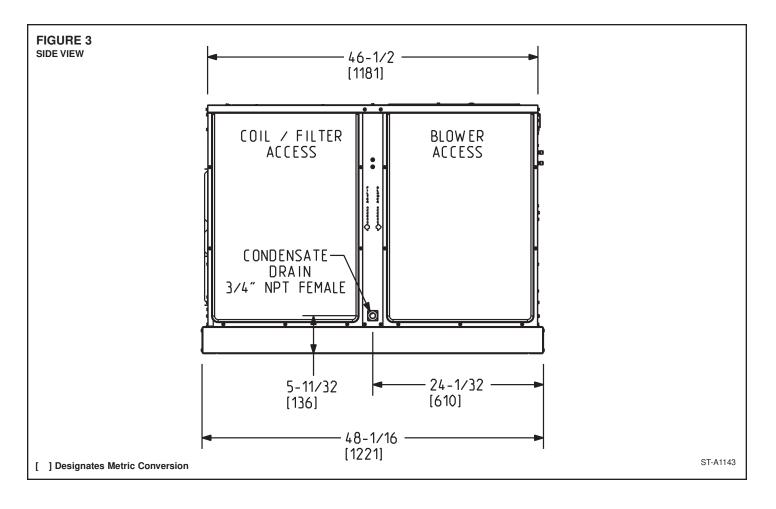
- -400 PSIG Pressure Rating
- -Dept. of Transportation 4BA400 or BW400

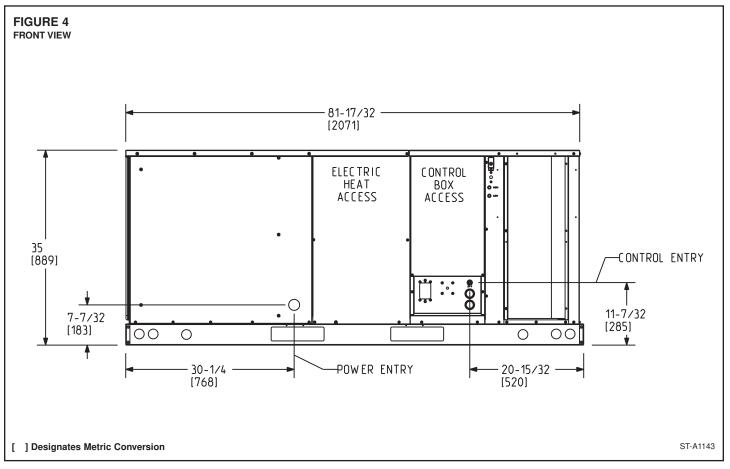
CAUTION

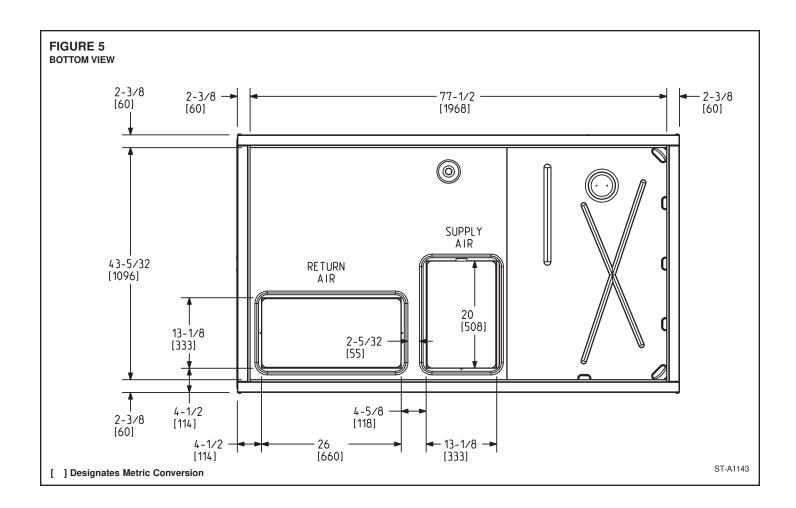
R-410A systems operate at higher pressures than R-22 systems. Do not use R-22 service equipment or components on R-410A equipment.











VI. GENERAL DATA - RLKN MODELS NOMINAL SIZES 6 TON [21.1 kW]

Model RLKN- Series	B072CL	B072CM	B072DL	B072DM
Cooling Performance				Continued ->
Gross Cooling Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2050 [1133/967]	2400/2050 [1133/967]	2400/2050 [1133/967]	2400/2050 [1133/967]
AHRI Net Cooling Capacity Btu [kW]	69,000 [20.22]	69,000 [20.22]	69,000 [20.22]	69,000 [20.22]
Net Sensible Capacity Btu [kW]	47,300 [13.86]	47,300 [13.86]	47,300 [13.86]	47,300 [13.86]
Net Latent Capacity Btu [kW] IEER°	21,700 [6.36]	21,700 [6.36]	21,700 [6.36]	21,700 [6.36]
Net System Power kW	12.5 6.19	12.5 6.19	12.5 6.19	12.5 6.19
Compressor	6.19	0.19	0.19	0.19
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)°	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [17.8]	0.7 [17.8]	0.7 [17.8]	0.7 [17.8]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
ndoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [33]	1.3 [33]	1.3 [33]	1.3 [33]
Face Area sq. ft. [sq. m]	6 [0.56]	6 [0.56]	6 [0.56]	6 [0.56]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4000 [1888]	4000 [1888]	4000 [1888]	4000 [1888]
No. Motors/HP	1 at 1/3 HP			
Motor RPM	1075	1075	1075	1075
ndoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x10 [279x254]	1/11x10 [279x254]	1/11x10 [279x254]	1/11x10 [279x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	1 1/2	1 1/2	1 1/2	1 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
ilter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]	70 [1984]	70 [1984]	70 [1984]	70 [1984]
Veights Net Weight lbs. [kg]	569 [258]	574 [260]	569 [258]	574 [260]
Ship Weight lbs. [kg]	576 [261]	579 [263]	576 [261]	579 [263]

[] Designates Metric Conversions

NOTES:

- 1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
- 2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- 3. IEER is rated in accordance with AHRI Standard 210/240 or 340/360.
- 4. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
- 5. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLKN MODELSNOMINAL SIZES 6 TON [21.1 kW]

Model RLKN- Series	B072YL	B072YM
Cooling Performance		
Gross Cooling Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]
EER/SEER ²	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2050 [1133/967]	2400/2050 [1133/967]
AHRI Net Cooling Capacity Btu [kW]	69,000 [20.22]	69,000 [20.22]
Net Sensible Capacity Btu [kW]	47,300 [13.86]	47,300 [13.86]
Net Latent Capacity Btu [kW]	21,700 [6.36]	21,700 [6.36]
IEER°	12.5	12.5
Net System Power kW	6.19	6.19
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)°	83	83
Outdoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [17.8]	0.7 [17.8]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [33]	1.3 [33]
Face Area sq. ft. [sq. m]	6 [0.56]	6 [0.56]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	4000 [1888]	4000 [1888]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x10 [279x254]	1/11x10 [279x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single
No. Motors	1	1
Motor HP	1 1/2	1 1/2
Motor RPM	1725	1725
Motor Frame Size	56	56
Filter - Type	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]	70 [1984]	70 [1984]
Weights Net Weight lbs. [kg]	569 [258]	574 [260]
Ship Weight lbs. [kg]	576 [261]	579 [263]
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- 5. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

VIII. INSTALLATION

A. GENERAL

1. PRE-INSTALLATION CHECK-POINTS

Before attempting any installation, the following points should be carefully considered:

- a. Structural strength of supporting members. (rooftop installation)
- b. Clearances and provision for servicing.
- c. Power supply and wiring.
- d. Air duct connections.
- e. Drain facilities and connections.
- f. Location for minimum noise.

2. LOCATION

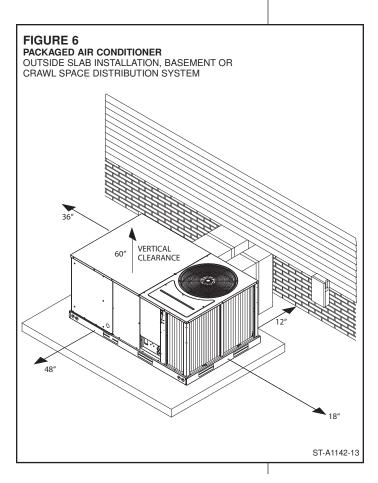
These units are designed for outdoor installations. They can be mounted on a slab or rooftop. They are not to be installed within any part of a structure such as an attic, crawl space, closet, or any other place where condenser air flow is restricted or other than outdoor ambient conditions prevail. Since the application of the units is of the outdoor type, it is important to consult your local code authorities at the time the first installation is made.

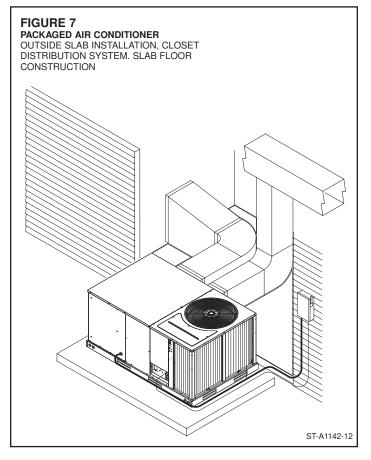
B. OUTSIDE SLAB INSTALLATION (Typical outdoor slab installations are shown in Figures 6 and 7.)

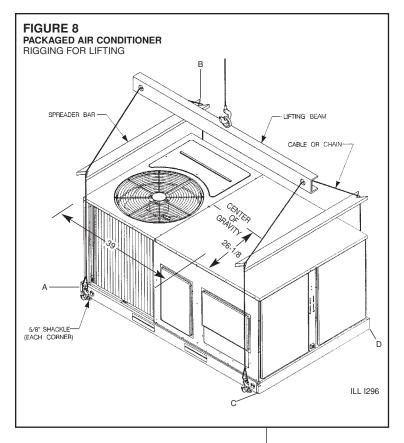
- 1. Select a location where external water drainage cannot collect around the unit.
- Provide a level concrete slab extending 3" beyond all four sides of the unit. The slab should be sufficient above grade to prevent ground water from entering the unit.

IMPORTANT: To prevent transmission of noise or vibration, slab should not be connected to building structure.

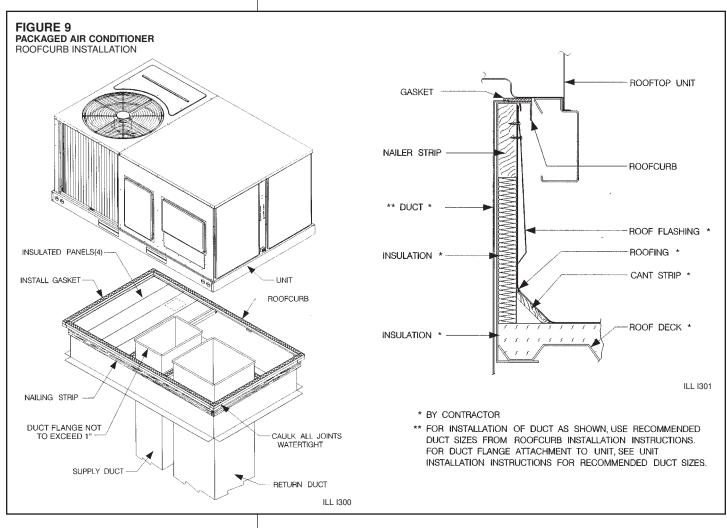
- 3. The location of the unit should be such as to provide proper access for inspection and servicing.
- 4. Locate unit where operating sounds will not disturb owner or neighbors.
- Locate unit so roof runoff water does not pour directly on the unit. Provide gutter or other shielding at roof level. Do not locate unit in an area where excessive snow drifting may occur or accumulate.







CORNER	WEIGHTS	BY PERC	ENTAGE
Α	В	С	D
23%	29%	21%	27%



A WARNING

DO NOT, UNDER ANY CIRCUM-STANCES, CONNECT RETURN DUCT-WORK TO ANY OTHER HEAT PRO-DUCING DEVICE SUCH AS A FIRE-PLACE INSERT, STOVE, ETC. UNAUTHORIZED USE OF SUCH DEVICES MAY RESULT IN FIRE, CAR-BON MONOXIDE POISONING, EXPLO-SION, PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

C. CLEARANCES

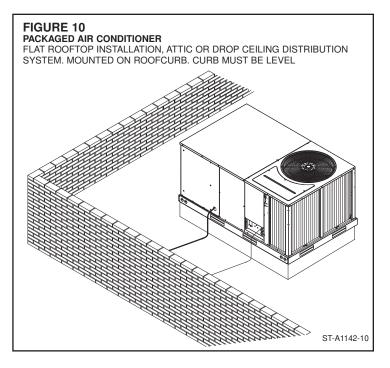
The following minimum clearances must be observed for proper unit performance and serviceability.

- Unit is design certified for application on combustible flooring with 0" minimum clearance.
- 2. See Figure 6 for illustration of minimum installation-service clearances.

D. ROOFTOP INSTALLATION

- Before locating the unit on the roof, make sure that the strength of the roof and beams is adequate at that point to support the weight involved. (See specification sheet for weight of unit.) This is very important and user's responsibility.
- For rigging and roofcurb details, see Figures 8 and 9. Use field-furnished spreaders.
- 3. For roofcurb assembly, see Roofcurb Installation Instructions.
- If the roofcurb is not used, provisions for disposing of condensate water runoff must be provided.
- The unit should be placed on a solid and level roofcurb or platform of adequate strength. See Figure 10.
- 6. The location of the unit on the roof should be such as to provide proper access for inspection and servicing.

IMPORTANT: If unit will not be put into service immediately, cover supply and return openings to prevent excessive condensation.



IX. DUCTWORK

Ductwork should be fabricated by the installing contractor in accordance with local codes and NFPA90A. Industry manuals may be used as a guide when sizing and designing the duct system - contact Air Conditioning Contractors of America, 1513 16th St. N.W., Washington, D.C. 20036.

The unit should be placed as close to the space to be air conditioned as possible allowing clearance dimensions as indicated. Ducts should be run as directly as possible to supply and return outlets. Use of non-flammable waterproof flexible connectors on both supply and return connections at the unit to reduce noise transmission is recommended.

It is preferable to install the unit on the roof of the structure if the registers or diffusers are located on the wall or in the ceiling. A slab installation could be considered when the registers are low on a wall or in the floor.

On ductwork exposed to outside air conditions of temperature and humidity, use a minimum of 2" of insulation and a vapor barrier. Distribution system in attic, furred space or crawl space should be insulated with at least 2" of insulation with vapor barrier. One-

half to 1" thickness of insulation is usually sufficient for ductwork inside the air conditioned space.

Balancing dampers should be provided for each branch duct in the supply system. Ductwork should be properly supported from the structure.

When installing ductwork, consider the following items:

- Noncombustible flexible connectors should be used between ductwork and unit to reduce noise and vibration transmission into the ductwork.
- 2. When auxiliary heaters are installed, use noncombustible flexible connectors and clearance to combustible material of 0" for the first 3 feet of discharge duct. Clearance to unit top and side is 0".

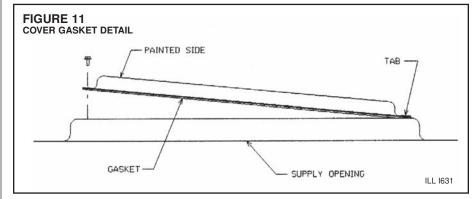
X. FILTERS

This unit is provided with disposable filters. When replacing filters, ensure they are inserted fully to the back to prevent bypass.

XI. CONVERSION PROCEDURE

DOWNFLOW TO HORIZONTAL

- 1. Remove the screws and covers from the outside of the supply and return sections.
- 2. Install the covers in the bottom supply and return openings with the painted side up. See Figure 11. Use the existing gasket to seal the covers.



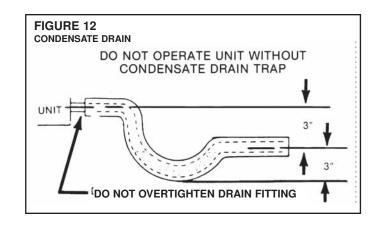
- Secure the supply cover to the base of the unit with 1 screw, engaging prepunched tab in unit base.
- Secure the return cover to the base of the unit with screws, engaging prepunched holes in the unit base.

XII. CONDENSATE DRAIN

IMPORTANT: Install a condensate trap to ensure proper condensate drainage. See Figure 12.

The condensate drain pan has a threaded female 3/4 inch NPT connection. Consult local codes or ordinances for specific requirements of condensate drain piping and disposal.

- Use a thin layer of Teflon tape or paste on drain pan connections and install only hand tight.
- Do not over tighten drain pan connections as damage to the drain pan may occur.
- · Drain line MUST NOT block service access panels.
- Drain line must be no smaller than drain pan outlet and adequately sized to accommodate the condensate discharge from the unit.
- Drain line should slope away from unit a minimum of 1/8" per foot to ensure proper drainage.
- Drain line must be routed to an acceptable drain or outdoors in accordance with local codes.
- Do not connect condensate drain line to a closed sewer pipe.
- Drain line may need insulation or freeze protection in certain applications.



XIII. ELECTRICAL WIRING

Field wiring must comply with the National Electrical Code* and local ordinances that may apply.

*C.E.C. in Canada

A. POWER WIRING

- 1. It is important that proper electrical power is available at the unit. Voltage should not vary more than 10% from that stamped on the unit rating plate. On three phase units, phases must be balanced within 3%.
- 2. Install a branch circuit disconnect within sight of the unit and of adequate size.
- For branch circuit wiring (main power supply to unit disconnect), the minimum wire size can be determined using the circuit ampacity found on the unit nameplate.
- 4. This unit incorporates single point electrical connection for unit and electric heat accessory.
- 5. Power wiring must be run in grounded rain-tight conduit. Connect the power field wiring as follows:
 - a. NO ELECTRIC HEAT Connect the field wires directly to the contactor pigtail in the electric heat access area. Connect ground wire to ground lug.
 - b. WITH ELECTRIC HEAT Connect the field wires to the terminal block on the electric heater kit in the electric heat access area. Connect the unit contactor pigtails to the appropriate fuse block on the heater kit. Connect the ground wire to the ground lug on the heater kit.

NOTE: For field installation of a heater kit, follow the instructions provided with the heater kit.

- 6. The pigtail wires in the electric heat access area are factory wired to the contactor in the control box.
- 7. DO NOT connect aluminum field wires to electric heat kit power input terminals.

	TABLE E. WIR	E SIZES	
AWG Copper Wire Size	AWG Aluminum Wire Size	Connector Type (or equivale	
#12	#10	T&B Wire Nut	PT2
#10	#8	T&B Wire Nut	PT3
#8	#6	Ilsco Split Bolt	AK-6
#6	#4	Ilsco Split Bolt	AK-4
#4	#2	Ilsco Split Bolt	AK-2
#3	#1	Ilsco Split Bolt	AK-1/0
#2	#0	Ilsco Split Bolt	AK-1/0
#1	#00	Ilsco Split Bolt	AK-2/0
#0	#000	Ilsco Split Bolt	AK-4/0

B. SPECIAL INSTRUCTIONS FOR POWER WIRING WITH ALUMINUM CONDUCTORS.

- 1. Select the equivalent aluminum wire size from the tabulation below:
- 2. Attach a length (6" or more) of recommended size copper wire to the unit terminals L1 and L3 for single phase, L1, L2, L3 for three phase.

▲ WARNING

THE UNIT MUST BE PERMANENTLY GROUNDED. A GROUNDING LUG IS PROVIDED IN THE ELECTRIC HEAT KIT ACCESS AREA FOR A GROUND WIRE. FAILURE TO GROUND THIS UNIT CAN RESULT IN FIRE OR ELECTRICAL SHOCK CAUSING PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

- Splice copper wire pigtails to aluminum wire with U.L. recognized connectors for copper-aluminum splices. Follow these instructions very carefully to make a positive and lasting connection;
 - a. Strip insulation from aluminum conductor.
 - b. Coat the stripped end of the aluminum wire with the recommended inhibitor and wire brush aluminum surface through inhibitor. Inhibitors: Brundy, Pentex "A"; Alcoa, No. 2EJC; T&B KPOR Shield.
 - c. Clean and recoat aluminum conductor with inhibitor.
 - d. Make the splice using the above listed wire nuts or split bolt connectors.
 - e. Coat the entire connection with inhibitor and wrap with electrical insulating tape.

WARRANTY MAY NOT APPLY IF CONNECTIONS ARE NOT MADE PER INSTRUCTIONS

C. CONTROL WIRING (Class II)

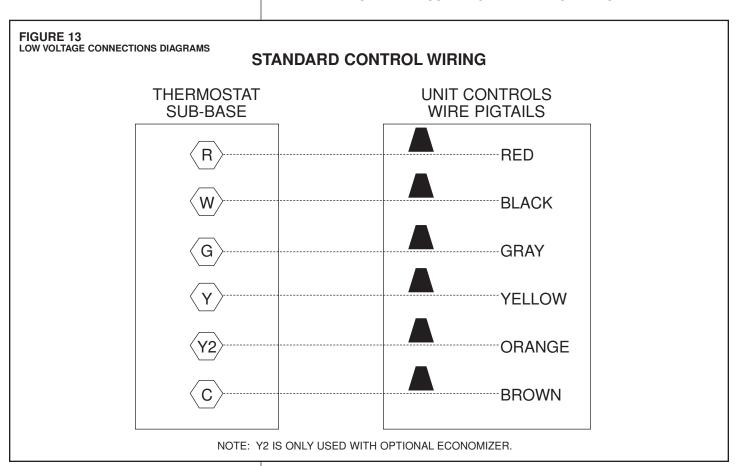
- 1. Low voltage wiring should not be run in conduit with power wiring.
- 2. Control wiring is routed through the 7/8" hole adjacent to the compressor access panel. See Figure 13. Use a minimum #18 AWG thermostat wire. For wire lengths exceeding 50', use #16 AWG thermostat wire. The low voltage wires are connected to the unit pigtails which are supplied with the unit in the low voltage connection box located below the unit control box.
- Figure 13 shows representative low voltage connection diagrams. Read your thermostat installation instructions for any special requirements for your specific thermostat.
 - NOTE Units installed in Canada require that an outdoor thermostat (30,000 min. cycles of endurance) be installed and be wired with C.E.C. Class I wiring.

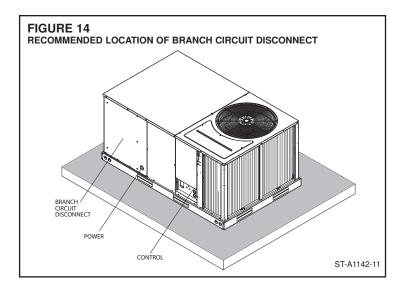
D. INTERNAL WIRING

 A diagram of the internal wiring of this unit is located on the inside of the compressor access panel. If any of the original wire as supplied with the appliance must be replaced, the wire gauge and insulation must be the same as original wiring.

E. GROUNDING

GROUNDING MAY BE ACCOMPLISHED BY GROUNDING THE POWER LINE CONDUIT TO THE UNIT. MAKE SURE THE CONDUIT NUT LOCKING TEETH HAVE PIERCED THE INSULATING PAINT FILM OF THE SIDE PANEL.





F. THERMOSTAT

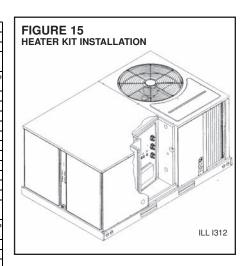
The thermostat should be mounted on an inside wall about five feet above the floor in a location where it will not be affected by unconditioned air, sun, or drafts from open doors or other sources. READ installation instructions in thermostat package CAREFULLY because each has some different wiring requirements.

XIV. ELECTRICAL DATA

			ELECTRI	CAL DATA -	RLKN- SEF	RIES			
		B072CL	B072CM	B072DL	B072DM	B072YL	B072YM		
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632		
	Volts	208/230	208/230	460	460	575	575		
iou	Phase	3	3	3	3	3	3		
Unit Information	Hz	60	60	60	60	60	60		
U	Minimum Circuit Ampacity	33	33	15	15	12	12		
	Minimum Overcurrent Protection Device Size	40	40	20	20	15	15		
	Maximum Overcurrent Protection Device Size	50	50	20	20	15	15		
	No.	1	1	1	1	1	1		
	Volts	208/230	208/230	460	460	575	575		
	Phase	3	3	3	3	3	3		
_	RPM	3450	3450	3450	3450	3450	3450		
sor Moto	HP, Compressor 1	5	5	5	5	5	5		
Compressor Motor	Amps (RLA), Comp. 1	19.6	19.6	8.2	8.2	6.6	6.6		
	Amps (LRA), Comp. 1	136	136	66.1	66.1	55.3	55.3		
	HP, Compressor 2								
	Amps (RLA), Comp. 2								
	Amps (LRA), Comp. 2								
	No.	1	1	1	1	1	1		
	Volts	208/230	208/230	460	460	575	575		
Condenser Motor	Phase	1	1	1	1	1	1		
Condens	HP	1/3	1/3	1/3	1/3	1/3	1/3		
	Amps (FLA, each)	2.2	2.2	1.5	1.5	1	1		
	Amps (LRA, each)	4.7	4.7	2.4	2.4	1.5	1.5		
	No.	1	1	1	1	1	1		
	Volts	208/230	208/230	460	460	575	575		
Evaporator Fan	Phase	3	3	3	3	3	3		
Evapor	HP	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2		
	Amps (FLA, each)	5.8	5.8	2.8	2.8	2.1	2.1		
	Amps (LRA, each)	34	34	17	17	13.1	13.1		

XV. ELECTRIC HEATER KITS

		20	0/240 VOLT TU	DEE DUACE CO	UZ ALIVILIA	DV ELECTRIC UE	ATED VITE CHA	DACTEDICTICS	AND ADDITION	TION			
-			8/240 VOLT, TH Power Supply fo			RY ELECTRIC HE	MIER NIIS CHA	MACTERISTICS			upply for Bot	h Unit and Hea	ater Kit
		Single	Heater Kit	or Both Offit at	iu neater kit		ir Conditioner		Heate		ирріу іог вос	Air Condition	
		1	1			-		nt Protective		1		Over Currer	
RHEEM Model Number	RXJJ- Heater	No. of	Rated Heater	Heater	Heater	Unit Min. Ckt.		ce Size	Min. Ckt.	Max. Fuse	Min. Circuit	Device Device	
	Kit Nominal	Sequence	kW @	KBTU/Hr @	Amp. @	Ampacity @	Min /May @	Min./Max. @	Ampacity	Size	Ampacity	Min /May @	Min./Max. @
	kW	Steps	208/240 V	208/240 V	208/240 V	208-240 V	208 V	240 V	208/240V	208/240V	208/240V	208 V	240 V
RLKN-B072CL	No Heat					33/33	40/50	40/50			33/33	40/50	40/50
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	33/33	40/50	40/50	15/17	15/20	33/33	40/50	40/50
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	33/37	40/50	40/50	25/29	25/30	33/33	40/50	40/50
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	45/51	45/50	60/60	38/44	40/45	33/33	40/50	40/50
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	58/66	60/60	70/70	50/58	50/60	33/33	40/50	40/50
	A24C	1	18/24	61.41/81.88	50/57.7	70/80	70/70	80/80	63/73	70/80	33/33	40/50	40/50
		20	9/240 VOLT TH	DEE DUASE 60	U7 ALIVILIA	RY ELECTRIC HE	ATED VITS CUA	DACTEDISTICS	AND APPLICA	TION			
			Power Supply fo			KI ELECTRIC IIE	ATER KITS CITS	MACIEMISTICS			upply for Bot	h Unit and Hea	nter Kit
			Heater Kit			-	ir Conditioner		Heate		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Air Condition	
							Over Currer	nt Protective				Over Currer	nt Protective
RHEEM Model Number		No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt. Ampacity @	Devic	ce Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Devic	e Size
		Steps	208/240 V	208/240 V	208/240 V	208-240 V		Min./Max. @	208/240V	208/240V	208/240V		Min./Max. @
							208 V	240 V				208 V	240 V
RLKN-B072CM	No Heat					33/33	40/50	40/50			33/33	40/50	40/50
<u> </u>	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	33/33	40/50	40/50	15/17	15/20	33/33	40/50	40/50
<u> </u>	A10C	1	7.2/9.6	24.56/32.75	20/23.1	33/37	40/50	40/50	25/29	25/30	33/33	40/50	40/50
<u> </u>	A15C A20C	1	10.8/14.4	49.13/65.5	30.1/34.7 40/46.3	45/51 58/66	45/50 60/60	60/60 70/70	38/44 50/58	40/45 50/60	33/33 33/33	40/50 40/50	40/50 40/50
-	A24C	1	18/24	61.41/81.88	50/57.7	70/80	70/70	80/80	63/73	70/80	33/33	40/50	40/50
		l -	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	-/	-,,	,		,	.,	-/	-,
	i .		480 VOLT, THRE	E PHASE, 60 H	Z, AUXILIARY	ELECTRIC HEAT	ER KITS CHARA	ACTERISTICS AI	ND APPLICATION	ON			
			Power Supply fo								upply for Bot	h Unit and Hea	iter Kit
			Heater Kit			A	ir Conditioner		Heate	er Kit		Air Condition	er
								nt Protective			Min. Circuit	Over Currer	
RHEEM Model Number		No. of Sequence	Rated Heater	Heater KBTU/Hr @	Heater Amp. @ 480	Unit Min. Ckt. Ampacity @		ce Size	Min. Ckt. Ampacity	Max. Fuse	Ampacity		e Size
		Steps	kW @ 480 V	480 V	v	480 V		Min./Max. @	480V	Size 480V	480V		Min./Max. @
		 		-			480 V	480 V		-	-	480 V	480 V
DI KNI BOZZINI	No Heat					15	20/20				15	20/20	
RLKN-B072DL	No Heat A06D	1	5.6	19.1	6.7	15 15	20/20		9	15	15 15/0	20/20	0/0
	A10D	1	9.6	32.75	11.6	19	20/20		15	15	15/0	20/20	0/0
	A15D	1	14.4	49.13	17.4	26	30/30		22	25	15/0	20/20	0/0
	A20D	1	19.2	65.5	23.3	33	35/35		30	30	15/0	20/20	0/0
	A24D	1	24	81.88	28.9	40	40/40		37	40	15/0	20/20	0/0
					Z, AUXILIARY	ELECTRIC HEAT		ACTERISTICS AI			<u> </u>		
			Power Supply fo		Z, AUXILIARY		ER KITS CHARA		Separ	ate Power Su	upply for Bot	h Unit and Hea	
					Z, AUXILIARY		ER KITS CHARA	r		ate Power Su	upply for Bot	Air Condition	er
RHFFM Model Number			Power Supply fo Heater Kit	or Both Unit ar	Z, AUXILIARY nd Heater Kit Heater		ER KITS CHARA	r	Separ	ate Power Su er Kit	upply for Bot Min. Circuit		er nt Protective
RHEEM Model Number		Single No. of Sequence	Power Supply fo	or Both Unit ar Heater KBTU/Hr @	Z, AUXILIARY nd Heater Kit Heater Amp. @ 480	Unit Min. Ckt. Ampacity @	ER KITS CHARA Air Conditioner Over Currer Device	nt Protective ce Size	Separ Heate Min. Ckt. Ampacity	ate Power Su	Min. Circuit	Air Condition Over Currer Device	er nt Protective ce Size
RHEEM Model Number		Single No. of	Power Supply for Heater Kit Rated Heater	or Both Unit ar	Z, AUXILIARY nd Heater Kit Heater	Unit Min. Ckt.	ER KITS CHARA	nt Protective ce Size	Separ Heate Min. Ckt.	ate Power Su er Kit Max. Fuse	Min. Circuit	Air Condition Over Currer Device	er nt Protective
RHEEM Model Number		Single No. of Sequence	Power Supply for Heater Kit Rated Heater	or Both Unit ar Heater KBTU/Hr @	Z, AUXILIARY nd Heater Kit Heater Amp. @ 480	Unit Min. Ckt. Ampacity @	ER KITS CHARA Air Conditioner Over Currer Device Min./Max. @	nt Protective ce Size Min./Max. @	Separ Heate Min. Ckt. Ampacity	ate Power Su er Kit Max. Fuse	Min. Circuit	Over Currer Devic Min./Max. @	er nt Protective ce Size Min./Max. @
RHEEM Model Number	No Heat	Single No. of Sequence	Power Supply for Heater Kit Rated Heater	or Both Unit ar Heater KBTU/Hr @	Z, AUXILIARY nd Heater Kit Heater Amp. @ 480	Unit Min. Ckt. Ampacity @	ER KITS CHARA Air Conditioner Over Currer Device Min./Max. @	nt Protective ce Size Min./Max. @	Separ Heate Min. Ckt. Ampacity	ate Power Su er Kit Max. Fuse	Min. Circuit	Over Currer Devic Min./Max. @	er nt Protective ce Size Min./Max. @
	A06D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Z, AUXILIARY Id Heater Kit Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	ER KITS CHARA Air Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20	mit Protective ce Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Air Conditions Over Currer Devic Min./Max. @ 480 V 20/20 20/20	er nt Protective ce Size Min./Max. @ 480 V
	A06D A10D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6	Heater KBTU/Hr @ 480 V	Heater Kit Heater Amp. @ 480 V 6.7 11.6	Unit Min. Ckt. Ampacity @ 480 V	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20	nt Protective ce Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V 15 15/0 15/0	Air Conditions Over Currer Device Min./Max. @ 480 V 20/20 20/20 20/20	er nt Protective size Min./Max. @ 480 V OOO O/O
	A06D A10D A15D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4	Heater KBTU/Hr @ 480 V	Z, AUXILIARY ad Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4	Unit Min. Ckt. Ampacity @ 480 V	ER KITS CHARA uir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30	mt Protective te Size Min./Max. @ 480 V	Min. Ckt. Ampacity 480V	Max. Fuse Size 480V 15 15 25	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0	Air Conditions Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20	Min./Max. @ 480 V 0/0 0/0
	A06D A10D A15D A20D	No. of Sequence Steps 1 1 1	Rated Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2	Heater KBTU/Hr @ 480 V	Z, AUXILIARY ad Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35	mit Protective ce Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V	Max. Fuse Size 480V 15 15 25 30	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0	Air Conditions Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20	er the Protective see Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0
	A06D A10D A15D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4	Heater KBTU/Hr @ 480 V	Z, AUXILIARY ad Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4	Unit Min. Ckt. Ampacity @ 480 V	ER KITS CHARA uir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30	mt Protective te Size Min./Max. @ 480 V	Min. Ckt. Ampacity 480V	Max. Fuse Size 480V 15 15 25	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0	Air Conditions Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20	Min./Max. @ 480 V 0/0 0/0
	A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 30/30 35/35 40/40	nt Protective ce Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0	Air Conditions Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20	er the Protective see Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0
	A06D A10D A15D A20D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 49.18 EE PHASE, 60 H	Heater Kit Heater Kit Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9	15 15 19 480 V	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 30/30 35/35 40/40	nt Protective ce Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37	Max. Fuse Size 480V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0	Air Conditions Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20	er nt Protective es Size Min./Max. @ 480 V
	A06D A10D A15D A20D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 49.18 EE PHASE, 60 H	Heater Kit Heater Kit Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 30/30 35/35 40/40	nt Protective ce Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37	Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Si	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20	er at Protective ee Size Min./Max. @ 480 V
RLKN-8072DM	A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 Single	Power Supply for Heater Kit Rated Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 600 VOLT, THRE Power Supply for	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar	Heater Kit Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	ER KITS CHARJ ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARJ ir Conditioner Over Currer	nt Protective te Size Min./Max. @ 480 V	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATII Separ Heate	Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Si	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 upply for Bot	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 40/20 20/20 College Air Condition Over Currer	er nt Protective ee Size Min./Max. @ 480 V 480 V 5/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0
	A06D A10D A15D A20D	No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 EGO VOLT, THRE Power Supply for Heater Kit Rated Heater	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 49.18 EE PHASE, 60 H	AUXILIARY de Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY de Heater Kit Heater Kit	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	RR KITS CHARA ir Conditioner Devic Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA Over Currer Devic	nt Protective te Size Min./Max. @ 480 V ARCTERISTICS AI The Protective te Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATICATICATICATICATICATICATICATICATICAT	max. Fuse Size 480V 15 15 25 30 40 DN are Power Size Fitte Max. Fuse Max. Fuse Max. Fuse	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 0/20	er nt Protective ee Size Min./Max. @ 480 V
RLKN-8072DM	A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 1 Single	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Heater Kit	Heater KBTU/Hr @ 480 V	Heater Kit Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @	nt Protective te Size Min./Max. @ 480 V ASSET OF THE PROTECTIVE ACCEPTATION	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATII Separ Heate	max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Ster Kit	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 Min. Circuit	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 Air Condition Over Currer Devic Min./Max. @	er Int Protective ce Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0 0/0 0/0 Min./Max. @ Min./Max. @ Min./Max. @ Min./Max. @ Min./Max. @
RLKN-8072DM	A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 1 Single	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 EGO VOLT, THRE Power Supply for Heater Kit Rated Heater	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	RR KITS CHARA ir Conditioner Devic Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA Over Currer Devic	nt Protective te Size Min./Max. @ 480 V ARCTERISTICS AI The Protective te Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 480V	max. Fuse Size 480V 15 15 25 30 40 DN are Power Size Fitte Max. Fuse Max. Fuse Max. Fuse	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 Min. Circuit Ampacity	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 0/20	er nt Protective ee Size Min./Max. @ 480 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D	No. of Sequence Steps 1 1 1 1 1 1 Single No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Heater Kit Rated Heater kW @ 600 V	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Amp. @ 600 V	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 600 V	nt Protective te Size Min./Max. @ 480 V ACTERISTICS AI The Protective te Size Min./Max. @ 600 V	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 Min. Circuit Ampacity 600V	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 Air Condition Over Currer Devic Min./Max. @ 600 V	er tt Protective es Size Min./Max. @ 480 V
RLKN-8072DM	A06D A10D A15D A20D A24D No Heat	No. of Sequence Steps 1 1 1 1 1 1 1 Single No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 500 VOLT, THRE Power Supply for Heater Kit Rated Heater kW @ 600 V	Heater KBTU/Hr @ 480 V 19.1 19.1 32.75 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar Heater KBTU/Hr @ 600 V	Z, AUXILIARY Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY Heater Kit Heater Kit Heater Kit	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	ER KITS CHARI Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARI Over Currer Devic Min./Max. @ 600 V	nt Protective te Size Min./Max. @ 480 V ASSET OF THE PROTECTIVE ACCEPTATION	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	Max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power St r Kit Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Device Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 Air Condition Over Currer Device Min./Max. @ 600 V	er th Protective es Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 Min./Max. @ 600 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat A15Y	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 600 VOLT, THREPower Supply for Heater Kit Rated Heater kW @ 600 V	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar Heater KBTU/Hr @ 600 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600 V	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT Junit Min. Ckt. Ampacity @ 600 V	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 600 V	nt Protective te Size Min./Max. @ 480 V ACTERISTICS AI The Protective te Size Min./Max. @ 600 V	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATII Separ Heate Min. Ckt. Ampacity 600V	Max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Size fitted for Size 600V Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 Air Condition Over Currer Devic Min./Max. @ 600 V	er the Protective estate of the Protective est
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat	No. of Sequence Steps 1 1 1 1 1 1 1 Single No. of Sequence Steps	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 500 VOLT, THRE Power Supply for Heater Kit Rated Heater kW @ 600 V	Heater KBTU/Hr @ 480 V 19.1 19.1 32.75 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar Heater KBTU/Hr @ 600 V	Z, AUXILIARY Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY Heater Kit Heater Kit Heater Kit	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT	ER KITS CHARI Ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARI Ir Conditioner Over Currer Devic Min./Max. @ 600 V	nt Protective te Size Min./Max. @ 480 V ASSETTION OF THE PROTECTIVE THE PROTECT	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	Max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power St r Kit Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Device Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 Air Condition Over Currer Device Min./Max. @ 600 V	er th Protective es Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 Min./Max. @ 600 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 Single No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Rated Heater kW @ 600 VOLT, THRE Rated Heater kW @ 600 V	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 EF PHASE, 60 H or Both Unit ar Heater KBTU/Hr @ 600 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V	Unit Min. Ctt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT Unit Min. Ctt. Ampacity @ 600 V	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 600 V	nt Protective te Size Min./Max. @ 480 V ASSETTION OF THE PROTECTIVE THE PROTECT	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	ate Power Si er Kit Max. Fuse Size 480V 15 15 25 30 40 ON ate Power Si Er Kit Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Over Currer Over Currer Air Condition Discrete Condition Discrete Currer Currer Devic Min./Max. @ Min./Max. @ 15/15 15/15	er at Protective es Size Min./Max. @ 480 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 9.6 14.4 19.2 24 Rated Heater Kit Rated Heater kW @ 600 VOLT, THRE Rated Heater kit Rated Heater kW @ 600 V	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 Heater KBTU/Hr @ 600 V	Z, AUXILIARY dd Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600 V 13.9 18.8 23.1	Unit Min. Ctt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT Unit Min. Ctt. Ampacity @ 600 V	ER KITS CHARJ ir Conditioner Over Currer Devic Min./Max. © 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARJ ir Conditioner Over Currer Devic Min./Max. © 600 V 15/15 20/20 30/30 35/35	nt Protective te Size Min./Max. @ 480 V ASS V ASS V ACTERISTICS AI The Protective te Size Min./Max. @ 600 V	Separ Heate Min. Ckt. Ampacity 480V 9 9 15 22 30 37 WD APPLICATIC Separ Heate Min. Ckt. Ampacity 600V 18 24 29 29	max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Size r Kit Max. Fuse Size 600V 20 25 30	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Over Currer Over Currer Air Condition Discrete Condition Discrete Currer Currer Devic Min./Max. @ Min./Max. @ 15/15 15/15	er at Protective es Size Min./Max. @ 480 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 1 1 Single No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Rated Heater Kit Rated Heater Kit 14.4 19.2 24 14.4 19.2 24 600 VOLT, THRE	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 Heater KBTU/Hr @ 600 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Amp. @ 600 V 13.9 18.8 23.1	Unit Min. Ckt. Ampacity @ 480 V 15 15 15 26 33 40 ELECTRIC HEAT 12 20 27 32 ELECTRIC HEAT	ER KITS CHARJ ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARJ ir Conditioner Devic Min./Max. @ 500 V 15/15 20/20 30/30 35/35 ER KITS CHARJ	nt Protective te Size Min./Max. @ 480 V ASS V ASS V ACTERISTICS AI	Separ Heate Min. Ckt. Ampacity 4800V 9 15 22 30 37 NO APPLICATIC Separ Heate Min. Ckt. Ampacity 600V 18 24 29 NO APPLICATIC Separ 18 NO APPLICATIC SPAR 18 NO APPLICATIC S	Max. Fuse Size 600V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power St ze r Kit 20 25 30 DN ate Power St	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Device Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 10/20 20/20 10/20 10/20 10/20 10/20 115/15 15/15 15/15 15/15	er ht Protective es Size Min./Max. @ 480 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 1 1 Single No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Rated Heater kW @ 600 VOLT, THREE kW @ 600 V 14.4 19.2 24 600 VOLT, THREE 600 VOLT, T	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 Heater KBTU/Hr @ 600 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Amp. @ 600 V 13.9 18.8 23.1	Unit Min. Ckt. Ampacity @ 480 V 15 15 15 26 33 40 ELECTRIC HEAT 12 20 27 32 ELECTRIC HEAT	ER KITS CHARA Ir Conditioner Over Currer Devic Min./Max. @ 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA Ir Conditioner Devic Min./Max. @ 600 V	nt Protective te Size Min./Max. @ 480 V ASSETTION AI ACTERISTICS AI ACTERISTICS AI ACTERISTICS AI	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V 18 24 29	Max. Fuse Size 600V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power St ze r Kit 20 25 30 DN ate Power St	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Device Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 10/20 20/20 10	er th Protective es Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 ster Kit er Min./Max. @ 600 V
RLKN-8072DM RHEEM Model Number RLKN-8072YL	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 1 1 Single No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply fo Heater Kit Rated Heater kit @ 480 V 5.6 9.6 9.6 14.4 19.2 24	Heater KBTU/Hr @ 480 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Amp. @ 600 V 23.1 23.1 24.4 23.1 25.4 23.1 27.4 23.1	Unit Min. Ckt. Ampacity @ 480 V 15 15 15 26 33 40 ELECTRIC HEAT 12 20 27 32 ELECTRIC HEAT	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARA ir Conditioner Over Currer Devic ER KITS CHARA ir Conditioner Conditioner ER KITS CHARA ir Conditioner Over Currer Conditioner Conditioner Conditioner Over Currer Conditioner Over Currer Conditioner Over Currer Conditioner Over Currer Over Currer	nt Protective te Size Min./Max.@ 480 V ASSETTING AND THE PROTECTIVE TO THE PROTECT	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Size 600V 20 25 30 ate Power Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 10/20 20/20 20/20 10/	er it Protective es size in Min./Max. @ 480 V
RLKN-8072DM RHEEM Model Number	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Rated Heater Kit Rated Heater Kit 14.4 19.2 24 14.4 19.2 24 Rated Heater Kit	Heater KBTU/Hr @ 480 V 19.1 12.75 49.13 65.5 81.88 EE PHASE, 60 H 600 V 49.13 65.5 81.88 EE PHASE, 60 H 600 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600 V 13.9 18.8 23.1 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT Junit Min. Ckt. Ampacity @ 40 Lunit Min. Ckt. Ampacity @ Lunit Min. Ckt.	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. © 480 V 20/20 20/20 20/20 30/30 35/35 40/40 Lir Conditioner Over Currer Devic Min./Max. © 15/15 20/20 30/30 35/35 ER KITS CHARA Over Currer Conditioner Over Currer Devic Over Currer Devic Over Currer Devic	nt Protective es size Min./Max. @ 480 V AND THE PROTECTIVE SAIN ACTERISTICS AI MIN./Max. @ 600 V ACTERISTICS AI The Protective es size ACTERISTICS AI The Protective es size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V VD APPLICATIC 29 VD APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	max. Fuse Size 600V Max. Fuse Size 480V 15 15 15 25 30 40 ON ate Power St 22 25 30 ON ate Power St 27 30 Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 10/20 20/20 20/20 20/20 10/20 20/20 20/20 20/20 20/20 10/20 20/2	er it Protective es Size
RLKN-8072DM RHEEM Model Number RLKN-8072YL	A06D A10D A15D A20D A24D No Heat A15Y A20Y	Single No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 Single No. of Sequence Steps No. of Sequence Steps No. of Sequence Steps No. of	Power Supply fo Heater Kit Rated Heater kit @ 480 V 5.6 9.6 9.6 14.4 19.2 24	Heater KBTU/Hr @ 480 V 19.1 19.1 32.75 81.88 EE PHASE, 60 H or Both Unit ar 49.13 65.5 81.88 EE PHASE, 60 H or Both Unit ar Heater Heater Heater Heater Heater Heater Heater	Z, AUXILIARY Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600 V 23.3 List See See See See See See See See See Se	Unit Min. Ckt. Ampacity @ 480 V 15 15 15 26 33 40 ELECTRIC HEAT Unit Min. Ckt. Ampacity @ 20 27 32 ELECTRIC HEAT	ER KITS CHARA ir Conditioner Over Currer Devic Min./Max. © 480 V 20/20 20/20 20/20 30/30 35/35 40/40 Lir Conditioner Over Currer Devic Min./Max. © 15/15 20/20 30/30 35/35 ER KITS CHARA Over Currer Conditioner Over Currer Devic Over Currer Devic Over Currer Devic	nt Protective te Size Min./Max.@ 480 V ASSETTING AND THE PROTECTIVE TO THE PROTECT	Separ Heate Min. Ckt. Ampacity 4800V 9 15 22 30 37 ND APPLICATIC Separ Heate 24 29 ND APPLICATIC Separ Heate Min. Ckt. Separ Heate Min. Ckt. Separ	max. Fuse Size 480V Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Size 600V 20 25 30 ate Power Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Devic Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 10/20 20/20 20/20 20/20 10/20 20/20 20/20 20/20 20/20 10/20 20/2	er it Protective es size in Min./Max. @ 480 V
RLKN-8072DM RHEEM Model Number RLKN-8072YL	A06D A10D A15D A20D A24D No Heat A15Y A20Y	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Power Supply for Heater Kit Rated Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 Heater Kit Rated Heater Kit Rated Heater Kit 14.4 19.2 24 14.4 19.2 24 Rated Heater Kit	Heater KBTU/Hr @ 480 V 19.1 12.75 49.13 65.5 81.88 EE PHASE, 60 H 600 V 49.13 65.5 81.88 EE PHASE, 60 H 600 V	Z, AUXILIARY d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600 V 13.9 18.8 23.1 Z, AUXILIARY dd Heater Kit Heater Amp. @ 600	Unit Min. Ckt. Ampacity @ 480 V 15 15 19 26 33 40 ELECTRIC HEAT Junit Min. Ckt. Ampacity @ 40 Lunit Min. Ckt. Ampacity @ Lunit Min. Ckt.	ER KITS CHARJ ur Conditioner Over Currer Devic Min./Max. @ 20/20 20/20 20/20 30/30 35/35 40/40 ER KITS CHARJ ur Conditioner Over Currer Devic Devic ER KITS CHARJ ur Conditioner ER KITS CHARJ ur Conditioner Conditioner Devic Min./Max. @ 000 V	nt Protective e Size Min./Max. @ 480 V ASS V ASS V ACTERISTICS AI The Protective e Size Min./Max. @ ACTERISTICS AI Min./Max. @	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 ND APPLICATIC Separ Heate Min. Ckt. Ampacity 600V VD APPLICATIC 29 VD APPLICATIC Separ Heate Min. Ckt. Ampacity 600V	max. Fuse Size 600V Max. Fuse Size 480V 15 15 15 25 30 40 ON ate Power St 22 25 30 ON ate Power St 27 30 Max. Fuse Size 600V	Min. Circuit Ampacity 480V 15 15/0 15/0 15/0 15/0 15/0 15/0 15/0	Air Condition Over Currer Device Min./Max. @ 480 V 20/20 20/20 20/20 20/20 20/20 20/20 20/20 20/20 10/20 20/20 20/20 10	er it Protective es Size Min./Max. @ 480 V 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/
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XVI. BELT-DRIVE AIRFLOW PERFORMANCE 6 TON MODEL

				WATTS	1015	205	295	380			1		1	
			1.50	Ė			_		_	_			_	
				S RPM	1210	1230	1240	1255				T		
			.40	WATTS	086	1150	1250	1330	1425	1525	1630	1	1	
			_	RPM	1180	1205	1220	1230	1240	1255	1295	ı	Ι	
			.30	WATTS	940	1090	1180	1260	1370	1470	1580	1665	Ι	
			1.	RPM	1150	1175	1190	1205	1220	1235	1250	1270	_	
			.20	WATTS	890	1035	1130	1220	1325	1430	1530	1635	1730	
			1.	RPM	1120	1145	1160	1180	1200	1220	1230	1240	1255	
			0	WATTS	850	1000	1060	1160	1250	1355	1450	1580	1675	
			1.10	RPM	1090	1120	1130	1145	1160	1185	1205	1225	1235	
				WATTS	800	940	1025	1100	1180	1335	1390	1505	1615	
			1.0	RPM	1050	1085	1100	1120	1135	1150	1175	1200	1220	
		WATER		WATTS	092	006	096	1045	1130	1215	1300	1425	1540	
		HES OF	0.0	RPM	1010	1050	1065	1080	1100	1120	1135	1165	1185	
		EXTERNAL STATIC PRESSURE-INCHES OF WATER		WATTS	720	840	920	1000	1060	1155	1260	1350	1470	
		C PRESS	0.8	RPM	975	1015	1030	1050	1065	1085	1110	1135	1155	
		AL STATIO		WATTS	029	800	098	930	1005	1110	1240	1295	1305	
		EXTERN/	0.7	RPM	930	975	995	1015	1035	1055	1080	1100	1125	
				WATTS	650	750	820	880	096	1050	1140	1225	1335	П
			9.0	RPM	895	930	922	086	1000	1025	1045	1065	1090	
				WATTS	605	720	780	820	910	066	1085	1175	1260	
			0.5	RPM	820	895	920	945	096	066	1020	1040	1060	
				WATTS	260	675	740	810	870	945	1020	1105	1200	
	HASE		0.4	RPM \	785	098	880	910	930	920	086	1005	1030	
	208-230, 460 & 575 V 3 PHASE			WATTS	1	625	089	750	830	006	975	1060	1145	
	460 & 57		0.3	RPM	ı	815	840	865	068	920	945	975	1000	
	208-230,			WATTS	ı	009	650	700	092	835	915	1005	1100	
z			0.2	RPM \	1	2775	810	825	855	880	910	940	920	
CAPACITY6 TON	/GE			WATTS	ı	1	ı	099	720	780	855	945	1075	
CAPAC	VOLTAGE		0.1	RPM	1	9 9	1	780	815	845	870	006	930	
	AIR	FLOW	CFIN		1800	2000	2100	2200	2300	2400	2500	2600	2700	
_		Ξ												ш

DRIVE PACKAGE				<u>"</u>							<u>"</u>			
MOTOR H.P.				1-1/2							1-1/2			
BLOWER SHEAVE			6.4 PI	6.4 PITCH DIAMETER	ETER					6.4 PF	6.4 PITCH DIAMETER	ETER		
MOTOR SHEAVE			2.8-3.8 PITCH DIAMETER - ADJ.	CH DIAME	TER - ADJ.				e) .	.4-4.4 PIT(CH DIAME	3.4-4.4 PITCH DIAMETER - ADJ.		
TURNS OPEN	0	-	2	3	4	5	9	0	-	2	3	4	5	9
RPM	1100	1050	1000	945	895	845	780	1295	1230	1195	1145	1100	1050	1000

XVII. INDOOR AIR FLOW DATA

Belt-drive blower models have motor sheaves set for proper CFM at a typical external static. See tables for blower performance.

XVIII. CRANKCASE HEAT (OPTIONAL)

Crankcase heat is not required on scroll type compressors, but may be necessary for certain situations.

XIX. PRE-START CHECK

- 1. Is unit properly located and slightly slanted toward indoor condensate drain?
- Is ductwork insulated, weatherproofed, with proper spacing to combustible materials?
- 3. Is air free to travel to and from outdoor coil?
- 4. Is the wiring correct, tight, and according to unit wiring diagram?
- 5. Is unit grounded?
- 6. Are field supplied air filters in place and clean?
- 7. Do the outdoor fan and indoor blower turn freely without rubbing, and are they tight on the motor shafts?

XX. STARTUP

- 1. Turn thermostat to "OFF," turn "on" power supply at disconnect switch.
- 2. Turn temperature setting as high as it will go.
- 3. Turn fan switch to "ON."
- 4. Indoor blower should run. Be sure it is running in the right direction.
- 5. Turn fan switch to "AUTO." Turn system switch to "COOL" and turn temperature setting below room temperature. Unit should run in cooling mode.
- 6. Is outdoor fan operating correctly in the right direction?
- 7. Is compressor running correctly.
- Check the refrigerant charge using the instructions located on compressor access panel. Replace service port caps. Service port cores are for system access only and will leak if not tightly capped.
- Turn thermostat system switch to proper mode "HEAT" or "COOI" and set thermostat to proper temperature setting. Record the following after the unit has run some time.

A. Operating Mode	
B. Discharge Pressure (High)	PSIG
C. Vapor Pressure at Compressor (Low)	PSIG
D. Vapor Line Temperature at Compressor	°F.
E. Indoor Dry Bulb	°F.
F. Indoor Wet Bulb	°F.
G. Outdoor Dry Bulb	°F.
H. Outdoor Wet Bulb	°F.
Voltage at Contactor	Volts
J. Current at Contactor	Amps
K. Model Number	
L. Serial Number	
M. Location_	
N. Owner	
O. Date	
A 11 . 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

- 10. Adjust discharge air grilles and balance system.
- 11. Check ducts for condensation and air leaks.
- 12. Check unit for tubing and sheet metal rattles.
- 13. Instruct the owner on operation and maintenance.
- 14. Leave "INSTALLATION" and "USE AND CARE" instructions with owner.

XXI. OPERATION

IMPORTANT: The compressor has an internal overload protector. Under some conditions, it can take up to 2 hours for this overload to reset. Make sure overload has had time to reset before condemning the compressor.

CONTROL SYSTEM OPERATION

1. In the cooling mode, the thermostat will, on a call for cooling, energize the compressor contactor and the indoor blower relay. The indoor blower can be operated continuously by setting the thermostat fan switch at the "ON" position.

XXII. AUXILIARY HEAT

In the heating mode, the thermostat will energize one or more supplementary resistance heaters.

XXIII. REPLACEMENT PARTS

Contact your local distributor for a complete parts list.

XXIV.CHARGE INFORMATION

Refer to the appropriate charge chart included in this manual.

XXV. TROUBLESHOOTING

Refer to the troubleshooting chart included in this manual.

XXVI. WIRING DIAGRAMS

Refer to the appropriate wiring diagram included in this manual.

WARNING

ONLY ELECTRIC HEATER KITS SUPPLIED BY THIS MANUFACTURER AS DESCRIBED IN THIS PUBLICATION HAVE BEEN DESIGNED, TESTED, AND EVALUATED BY A NATIONALLY RECOGNIZED SAFETY TESTING AGENCY FOR USE WITH THIS UNIT. USE OF ANY OTHER MANUFACTURED ELECTRIC HEATERS INSTALLED WITHIN THIS UNIT MAY CAUSE HAZARDOUS CONDITIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.

SYSTEM CHARGE CHART - REFRIGERANT 410A

OUTDOOR	C TON
DRY BULB	6 -TON

Pressure Requirements - Gross Charge Check ONLY

Liquid Pressure / Vapor Pressure

115	513 / 143
105	448 / 141
95	389 / 139
85	344 / 135
75	301/130
65	260 / 123
55	225 / 115

Sub Cooling Requirements - Final Charge Verification

115	14
105	14
95	14
85	16
75	17
65	18
55	19

NOTICE:

- It is required to fine tune unit charge. Indoor ambient temperature must be between 72°F and 82°F dry bulb at the indoor coil.
- Measure liquid line temperature at four (4) inches prior to metering device.
- Confirm the indoor supply air flow is correct, reference rated CFM in the unit Specification Sheets
- Allow the system to run long enough for temperatures and pressures to stabilize.
- Sub-cooling tolerance is +/- 1.5°F
- If obtaining rated sub-cooling values causes liquid/vapor pressures that are significantly different (>20 psig) from those listed on the table, there may be a component or air flow issue. Refer to unit Installation trouble shooting section for further support.

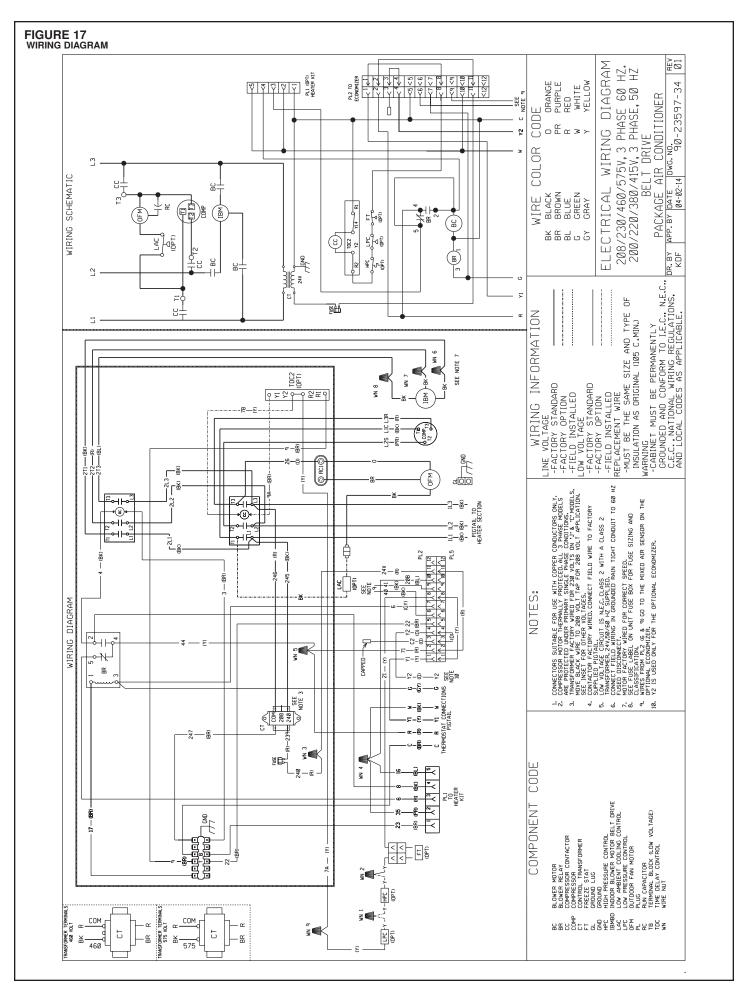
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TROUBLE SHOOTING CHART

▲ WARNING

DISCONNECT ALL POWER TO UNIT BEFORE SERVICING. CONTACTOR MAY BREAK ONLY ONE SIDE. FAILURE TO SHUT OFF POWER CAN CAUSE ELECTRICAL SHOCK RESULTING IN PERSONAL INJURY OR DEATH.

SYMPTOM	POSSIBLE CAUSE	REMEDY
Unit will not run	Power off or loose electrical connection Thermostat out of calibration-set too high Defective contactor Blown fuses Transformer defective High pressure control open (if provided) Interconnecting low voltage wiring damaged	Check for correct voltage at compressor contactor in control box Reset Check for 24 volts at contactor coil - replace if contacts are open Replace fuses Check wiring-replace transformer Reset-also see high head pressure remedy-The high pressure control opens at 450 PSIG Replace thermostat wiring
Condenser fan runs, compressor doesn't	Run capacitor defective (single phase only) Start relay defective (single phase on;y) Loose connection Compressor stuck, grounded or open motor winding, open internal overload. Low voltage condition Low voltage condition	Replace Replace Check for correct voltage at compressor - check & tighten all connections Wait at least 2 hours for overload to reset. If still open, replace the compressor. At compressor terminals, voltage must be within 10% of rating plate volts when unit is operating Add start kit components
Insufficient cooling	Improperly sized unit Improper airflow Incorrect refrigerant charge Air, non-condensibles or moisture in system Incorrect voltage	Recalculate load Check - should be approximately 400 CFM per ton. Charge per procedure attached to unit service panel Recover refrigerant, evacuate & recharge, add filter drier At compressor terminals, voltage must be within 10% of rating plate volts when unit is operating.
Compressor short cycles	Incorrect voltage Defective overload protector Refrigerant undercharge	At compressor terminals, voltage must be ±10% of nameplate marking when unit is operating. Replace - check for correct voltage Add refrigerant
Registers sweat	Low evaporator airflow	Increase speed of blower or reduce restriction - replace air filter
High head-low vapor pressures	Restriction in liquid line, expansion device or filter drier Flow check piston size too small Incorrect capillary tubes TXV does not open	Remove or replace defective component Change to correct size piston Change coil assembly Replace TXV
High head-high or normal vapor pressure - Cooling mode	Dirty condenser coil Refrigerant overcharge Condenser fan not running Air or non-condensibles in system	Clean coil Correct system charge Repair or replace Recover refrigerant, evacuate & recharge
Low head-high vapor pressures	Flow check piston size too large Defective Compressor valves Incorrect capillary tubes	Change to correct size piston Replace compressor Replace coil assembly
Low vapor - cool compressor - iced evaporator coil	Low evaporator airflow Operating below 65°F outdoors Moisture in system TXV limiting refrigerant flow	Increase speed of blower or reduce restriction - replace air filter Add Low Ambient Kit Recover refrigerant - evacuate & recharge - add filter drier Replace TXV
High vapor pressure	Excessive load Defective compressor	Recheck load calculation Replace
Fluctuating head & vapor pressures	TXV hunting Air or non-condensate in system	Check TXV bulb clamp - check air distribution on coil - replace TXV Recover refrigerant, evacuate & recharge
Gurgle or pulsing noise at expansion device or liquid line	Air or non-condensibles in system	Recover refrigerant, evacuate & recharge



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