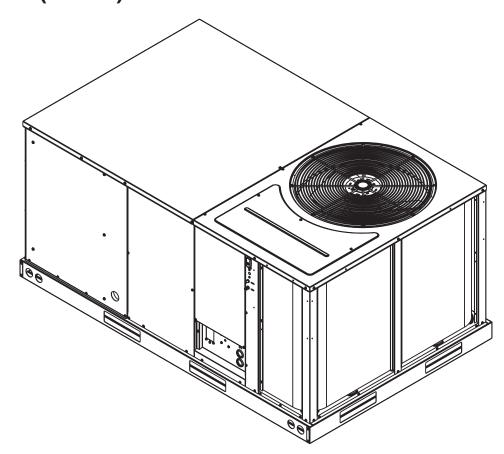
INSTALLATION INSTRUCTIONS FOR PACKAGE AIR CONDITIONERS FEATURING INDUSTRY STANDARD R410A REFRIGERANT

RLKN-B073 (6 TON) SERIES RLKN-C073 (6 TON) SERIES WITH CLEAR CONTROL[™] (DDC)



RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION!

A 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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AWARNING

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

AWARNING

THE MANUFACTURER'S WARRANTY DOES NOT COVER ANY DAMAGE OR DEFECT TO THE AIR CONDITIONER CAUSED BY THE ATTACHMENT OR USE OF ANY COMPONENTS, **ACCESSORIES OR DEVICES (OTHER** THAN THOSE AUTHORIZED BY THE MANUFACTURER) INTO, ONTO OR IN CONJUNCTION WITH THE AIR CONDITIONER. YOU SHOULD BE AWARE THAT THE USE OF UNAU-THORIZED COMPONENTS, ACCES-SORIES OR DEVICES MAY ADVERSE-LY AFFECT THE OPERATION OF THE AIR CONDITIONER AND MAY ALSO ENDANGER LIFE AND PROPERTY. THE MANUFACTURER DISCLAIMS ANY RESPONSIBILITY 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 MAINTENANCE. 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.
- 2. 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.

- 1. 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.
- 3. 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: <u>**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.</u>

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:

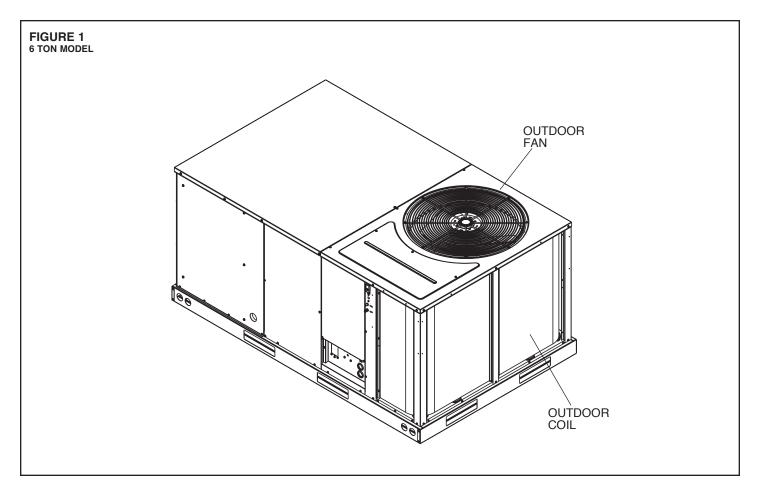
-Service Pressure Rating of 800 PSIG

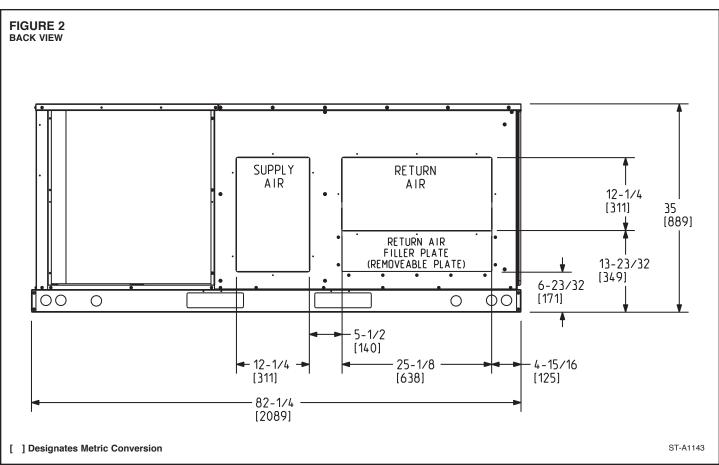
Recovery Cylinders:

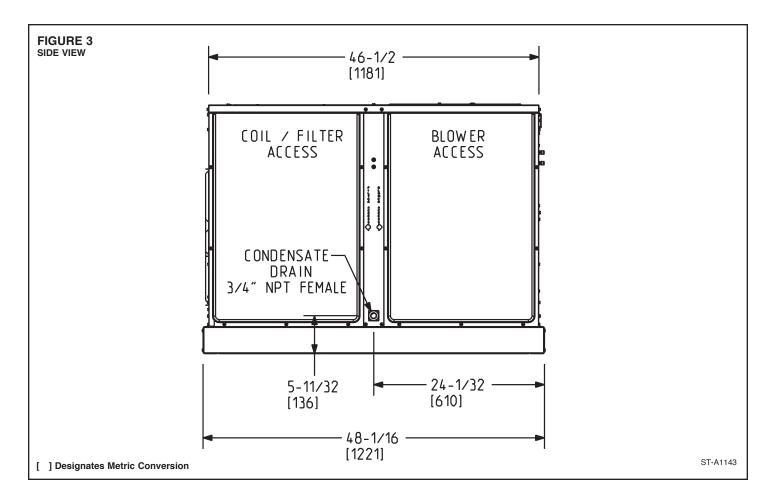
-400 PSIG Pressure Rating -Dept. of Transportation 4BA400 or BW400

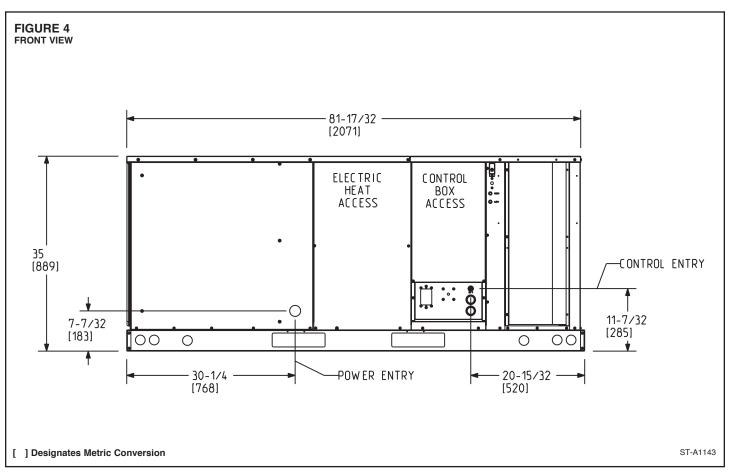
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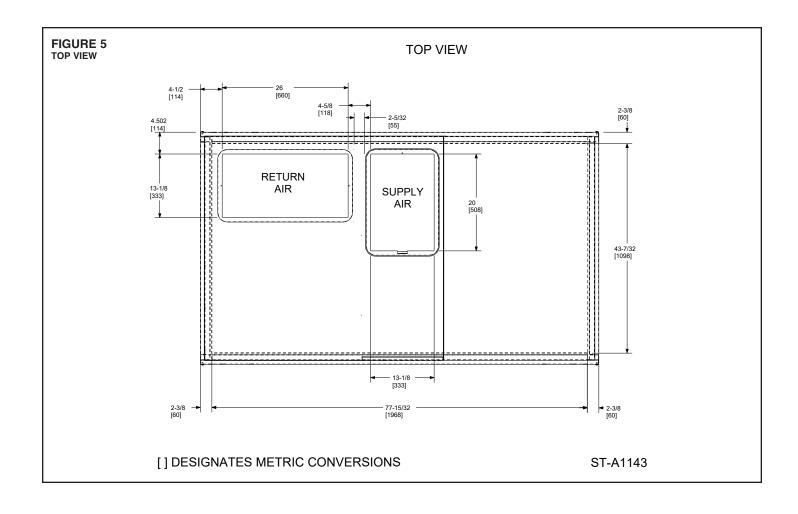
R-410A systems operate at higher pressures than R-22 systems. Do not use R-22 service equipment or components on R-410A equipment.











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

Model RLKN- Series	(B,C)073CL	(B,C)073CM	(B,C)073DL	(B,C)073DM
Cooling Performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	70,000 [20.5]	70,000 [20.5]	70,000 [20.5]	70,000 [20.5]
EER/IEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2100 [1133/991]	2400/2100 [1133/991]	2400/2100 [1133/991]	2400/2100 [1133/991]
AHRI Net Cooling Capacity Btu [kW]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
Net Sensible Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Latent Capacity Btu [kW]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]
IEER	12.9	12.9	12.9	12.9
Net System Power kW	6.07	6.07	6.07	6.07
ompressor No./Type	1/Scroll (2-Stage)	1/Scroll (2-Stage)	1/Scroll (2-Stage)	1/Scroll (2-Stage)
utdoor Sound Rating (dB) ⁴	83	83	83	83
utdoor 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]
door Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
VicroChannel 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]
RefriJerant Control	TX Valve	TX Valve	TX Valve	TX Valve
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor 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]	4200 [1982]	4200 [1982]	4200 [1982]	4200 [1982]
No. Motors/HP	1 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
idoor Fan - Type				
No. Used/Diameter in. [mm]	1/11×10 [279×254]	1/11x10 [279×254]	1/11×10 [279×254]	1/11×10 [279×254]
ULYHITSH	%HOW\$GIN(VWDEOH	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	2	2	2
Motor RPM	1725	1725	1725	1725
Notor Frame Size	56	56	56	56
Iter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm × mm × mm]	(4)2×16×16 [51×406×406]	(4)2×16×16 [51×406×406]	(4)2×16×16 [51×406×406]	(4)2×16×16 [51×406×406]
efrigerant Charge Oz. [g]	67 [1899]	67 [1899]	67 [1899]	67 [1899]
/eights	<u> </u>	-		
Net Weight Ibs. [kg]	551 [250]	553 [251]	551 [250]	553 [251]
Ship Weight Ibs. [kg]	579 [263]	581 [264]	579 [263]	581 [264]

[] Designates Metric Conversions

NOTES:

 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 rated 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 Large Equipment certification program, which is based on AHRI Standard 340/360.

2. EER and IEER are rated at AHRI conditions and in accordance with DOE test procedures and AHRI Standard 340/360.

3. 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.

4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

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

Models MPS- Series	(B,C)073YL	(B,C)073YM
Cooling Performance ¹		
*URVVI&RRQL&QDSDFL1M%WXI>N:	70,000 [20.5]	70,000 [20.5]
EER/IEER ²	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2100 [1133/991]	2400/2100 [1133/991]
AHRI Net Cooling Capacity Btu [kW]	68,000 [19.92]	68.000 [19.92]
Net Sensible Capacity Btu [kW]	46,000 [13,48]	46,000 [13,48]
Net Latent Capacity Btu [kW]	22,000 [6.45]	22,000 [6.45]
IEER	12.9	12.9
Net System Power kW	6.07	6.07
Compressor		
No./Type	1/Scroll (2-Stage)	1/Scroll (2-Stage)
Outdoor Sound Rating (dB) ⁴	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 Valve	TX Valve
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]	4200 [1982]	4200 [1982]
No. Motors/HP	1 at 1/2 HP	1 at 1/2 HP
Motor RPM	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11×10 [279×254]	1/11×10 [279×254]
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 × mm × mm]	(4)2×16×16 [51×406×406]	(4)2×16×16 [51×406×406]
Refrigerant Charge Oz. [g]	67 [1899]	67 [1899]
Weights		
Net Weight Ibs. [kg]	546 [248]	548 [249]
Ship Weight Ibs. [kg]	574 [260]	576 [261]

[] Designates Metric Conversions

NOTES:

 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 rated 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 Large Equipment certification program, which is based on AHRI Standard 340/360.

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3. 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.

4. 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

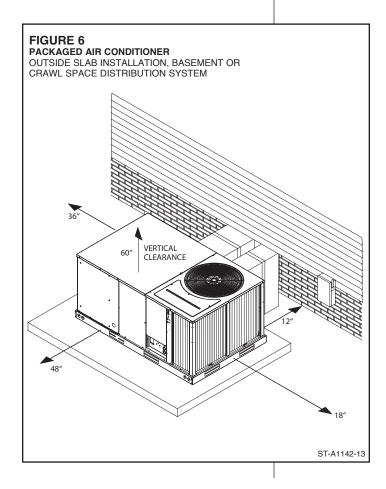
These units are designed for outdoor installations. They can be mounted on a slab or rooftop. They are not to be installed within any part of a structure such as an attic, crawl space, closet, or any other place where condenser air flow is restricted or other than outdoor ambient conditions prevail. 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.)

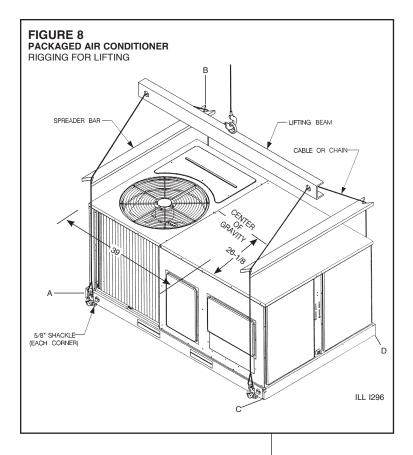
- 1. Select a location where external water drainage cannot collect around the unit.
- Provide a level concrete slab extending 3" beyond all four sides of the unit. The slab should be sufficient above grade to prevent ground water from entering the unit.

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.



ST-A1142-12



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

FIGURE 9 PACKAGED AIR CONDITIONER ROOFCURB INSTALLATION ROOFTOP UNIT GASKET NAILER STRIP ROOFCURB ** DUCT * ROOF FLASHING * INSULATED PANELS(4) ROOFING * INSULATION * CANT STRIP * INSTALL GASKET - UNIT ROOFCURB ROOF DECK * INSULATION * -ILL 1301 NAILING STRIP * BY CONTRACTOR ** FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. DUCT FLANGE NOT TO EXCEED 1" CAULK ALL JOINTS WATERTIGHT FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES. SUPPLY DUCT RETURN DUCT ILL 1300

AWARNING

DO NOT, UNDER ANY CIRCUM-STANCES, CONNECT RETURN DUCTWORK TO ANY OTHER HEAT PRODUCING DEVICE SUCH AS A FIREPLACE 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

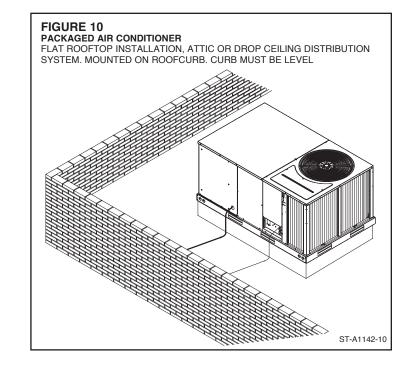
The following minimum clearances must be observed for proper unit performance and serviceability.

- 1. 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

- 1. 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.
- 2. 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.
- 5. 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 bar-

rier. 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:

- 1. 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".

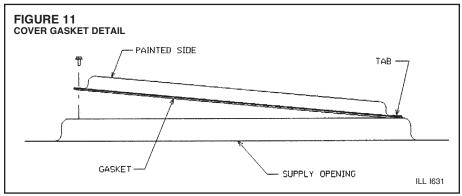
X. FILTERS

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.



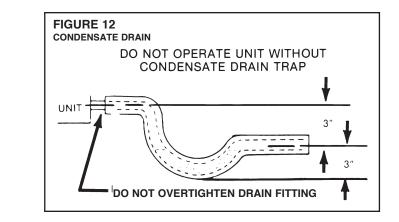
- Secure the supply cover to the base of the unit with 1 screw, engaging prepunched tab in unit base.
- Secure the return cover to the base of the unit with screws, engaging prepunched holes in the unit base.

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.
- 3. 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		
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:
- 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.

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 ELEC-TRICAL SHOCK CAUSING PROPER-TY 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.
- 3. Figure 13 shows representative low voltage connection diagrams. Read your thermostat installation instructions for any special requirements for your specific thermostat.

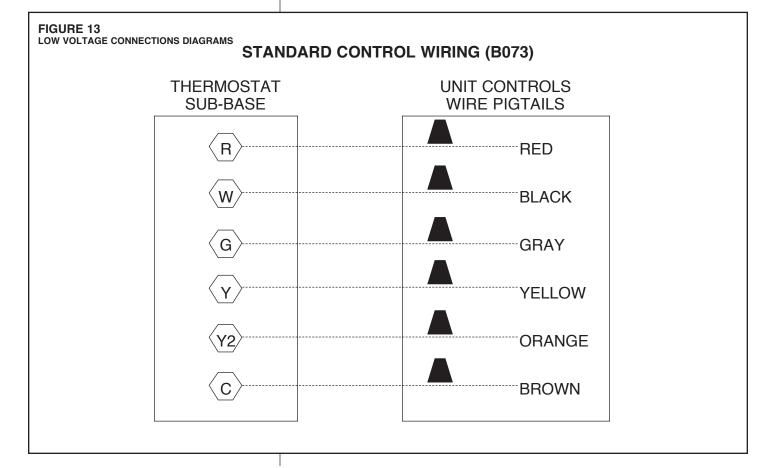
NOTE — Units installed in Canada require that an outdoor thermostat (30,000 min. cycles of endurance) be installed and be wired with C.E.C. Class I wiring.

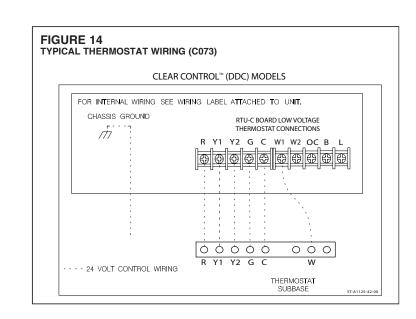
D. INTERNAL WIRING

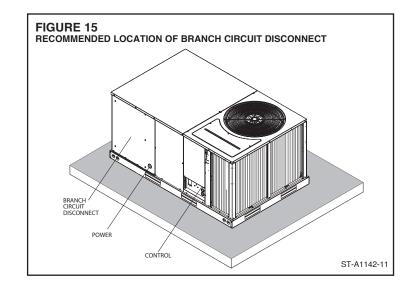
 A diagram of the internal wiring of this unit is located on the inside of the compressor access panel. If any of the original wire as supplied with the appliance must be replaced, the wire gauge and insulation must be the same as original wiring.

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.

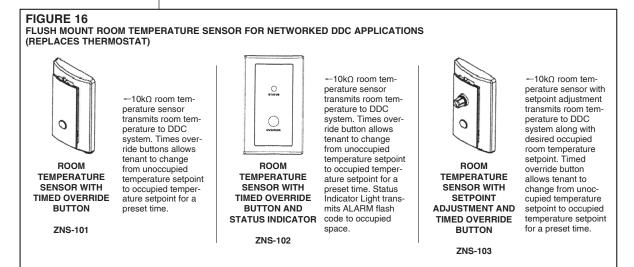






F. THERMOSTAT

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.



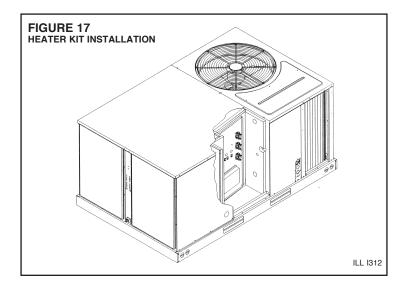
XIV. ELECTRICAL DATA

			ELECTRI	CAL DATA -	RLKN- SER	IES			
		(B,C)073CL	(B,C)073CM	(B,C)073DL	(B,C)073DM	(B,C)073YL	(B,C)073YM		
	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		
WICK	Phase	3	3	3	3	3	3		
8.QL.WQ,RIBDWICR	Hz	60	60	60	60	60	60		
80	Minimum Circuit Ampacity	31	31	16	16	11	11		
	Minimum Overcurrent Protection Device Size	35	35	20	20	15	15		
	Maximum Overcurrent Protection Device Size	45	45	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	17.6	17.6	8.5	8.5	6.3	6.3		
_	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	1/2	1/2	1/2	1/2	1/2	1/2		
	Amps (FLA, each)	2.3	2.3	1.5	1.5	1.0	1.0		
	Amps (LRA, each)	5.6	5.6	3.1	3.1	2.2	2.2		
	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	2	2	2	2	1 1/2	1 1/2		
	Amps (FLA, each)	6.2	6.2	3.0	3.0	2.1	2.1		
	Amps (LRA, each)	47	47	24	24	13.1	13.1		

XV. ELECTRIC HEATER KITS

		20	8/240 VOLT. TH	REE PHASE, 60	HZ. AUXILIA	RY ELECTRIC HE	ATER KITS CHA	RACTERISTICS	AND APPLICA	TION			
			Power Supply fo								upply for Both	n Unit and Hea	ater Kit
		8	Heater Kit			Α	ir Conditioner		Heate			Air Condition	
Model Number	Heater Kit	No. of	Rated Heater	Heater	Heater	Unit Min. Ckt.	Max. Ove	er Current Device Size	Min. Ckt.			Max. Ove	er Current Device Size
	Model No. RXJJ-	Sequence Steps	kW @ 208/240 V	KBTU/Hr @ 208/240 V	Amp. @ 208/240 V	Ampacity @ 208-240 V	208 V	240 V	Ampacity 208/240V	Size 208/240V	Ampacity 208/240V	208 V	240 V
RLKN-(B,C)073CL	No Heat					31/31	45	45			31/31	45	45
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	31/31	45	45	15/17	15/20	31/31	45	45
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	31/37	45	45	25/29	25/30	31/31	45	45
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	46/52	50	60	38/44	40/45	31/31	45	45
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	58/66	60	70	50/58	50/60	31/31	45	45
	A24C	1	18/24	61.41/81.88	50/57.7	71/80	80	80	63/73	70/80	31/31	45	45
		20						DACTEDICTICS					
						RY ELECTRIC HE	ATER KITS CHA	RACIERISTICS					
		Single	Power Supply fo	or Both Unit an	id Heater Kit							n Unit and Hea	
		r	Heater Kit	г	г	A	ir Conditioner		Heate	er Kit		Air Condition	
Model Number	Heater Kit Model No.	No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt. Ampacity @		er Current Device Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity		er Current Device Size
	RXJJ-	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-(B,C)073CM	No Heat					31/31	45	45			31/31	45	45
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	31/31	45	45	15/17	15/20	31/31	45	45
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	31/37	45	45	25/29	25/30	31/31	45	45
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	46/52	50	60	38/44	40/45	31/31	45	45
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	58/66	60	70	50/58	50/60	31/31	45	45
	A24C	1	18/24	61.41/81.88	50/57.7	71/80	80	80	63/73	70/80	31/31	45	45
			480 VOLT, THRE	E PHASE, 60 H	Z. AUXILIARY	ELECTRIC HEAT	ED VITE CUADA	CTEDICTICS A	ID ADDUCATIO	201			
					_,	ELECTRIC HEAT		ACTERISTICS AI		JN			
		Single	Power Supply fo	or Both Unit an	-	1			Separ	ate Power Su		n Unit and Hea	
		Single	Power Supply fo Heater Kit	or Both Unit an	-	1	ir Conditioner			ate Power Su		Air Condition	er
Model Number	Heater Kit	No. of	Heater Kit Rated Heater	Heater	d Heater Kit Heater	A Unit Min. Ckt.	ir Conditioner Max. Ove		Separ Heate Min. Ckt.	ate Power Su er Kit Max. Fuse	Min. Circuit	Air Condition Max. Ove	
Model Number	Heater Kit Model No. RXJJ-		Heater Kit		nd Heater Kit	A	ir Conditioner Max. Ove	er Current Device Size	Separ Heate	ate Power Su er Kit		Air Condition Max. Ove	er er Current Device Size
	Model No. RXJJ-	No. of Sequence Steps	Heater Kit Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Kit Heater Amp. @ 480 V	A Unit Min. Ckt. Ampacity @ 480 V	ir Conditioner Max. Ove Protective 480	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V	ate Power Su er Kit Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Air Condition Max. Ove Protective 480	er er Current Device Size
Model Number RLKN-(B,C)073DL	Model No. RXJJ-	No. of Sequence Steps	Heater Kit Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Kit Heater Amp. @ 480 V	A Unit Min. Ckt. Ampacity @ 480 V 16	ir Conditioner Max. Ove Protective 480 20	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V	ate Power Su er Kit Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Air Condition Max. Ove Protective 480 20	er Current Device Size D V
	No Heat A06D	No. of Sequence Steps	Heater Kit Rated Heater kW @ 480 V 5.6	Heater KBTU/Hr @ 480 V 19.1	Heater Kit Heater Amp. @ 480 V 6.7	A Unit Min. Ckt. Ampacity @ 480 V 16 16	ir Conditioner Max. Ove Protective 480 20 20	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V	ate Power SL er Kit Max. Fuse Size 480V 15	Min. Circuit Ampacity 480V 16 16	Air Condition Max. Ove Protective 480 20 20 2	er Current Device Size
	No Heat A06D A10D	No. of Sequence Steps	Heater Kit Rated Heater kW @ 480 V 5.6 9.6	Heater KBTU/Hr @ 480 V 19.1 32.75	Heater Kit Heater Amp. @ 480 V 6.7 11.6	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19	ir Conditioner Max. Ove Protective 480 20 20 2 2	er Current Device Size D V 0 0	Separ Heate Min. Ckt. Ampacity 480V 9 15	ate Power SL er Kit Max. Fuse Size 480V 15 15	Min. Circuit Ampacity 480V 16 16 16	Air Condition Max. Ove Protective 486 20 2 2 2 2	er Current Device Size
	Model No. RXJJ- No Heat A06D A10D A15D	No. of Sequence Steps 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26	ir Conditioner Max. Ove Protective 480 20 20 2 2 3	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25	Min. Circuit Ampacity 480V 16 16 16 16	Air Conditions Max. Ove Protective 480 20 20 2 2 2 2 2 2	er Current Device Size
	Model No. RXJJ- No Heat A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26 33	ir Conditioner Max. Ove Protective 480 20 20 2 2 3 3 3 3	er Current Device Size D V 0 0 0 5	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30	ate Power SL rr Kit Max. Fuse Size 480V 15 15 25 30	Min. Circuit Ampacity 480V 16 16 16 16 16 16	Air Conditions Max. Ove Protective 480 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
	Model No. RXJJ- No Heat A06D A10D A15D	No. of Sequence Steps 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26	ir Conditioner Max. Ove Protective 480 20 20 2 2 3 3 3 3	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25	Min. Circuit Ampacity 480V 16 16 16 16	Air Conditions Max. Ove Protective 480 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
	Model No. RXJJ- No Heat A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 1 1 1 1 1	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	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26 33 40	ir Conditioner Max. Ove Protective 480 20 20 2 2 3 3 3 4	er Current Device Size D V 0 0 0 0 5 0 0	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37	ate Power SL rr Kit Max. Fuse Size 480V 15 15 25 30 40	Min. Circuit Ampacity 480V 16 16 16 16 16 16	Air Conditions Max. Ove Protective 480 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
	Model No. RXJJ- No Heat A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 24 480 VOLT, THRE	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26 33	ir Conditioner Max. Ove Protective 480 20 20 2 2 3 3 3 4	er Current Device Size D V 0 0 0 0 5 0 0	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 WD APPLICATIO	ate Power SL rr Kit Max. Fuse Size 480V 15 15 25 30 40 	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16	Air Conditions Max. Ove Protective 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
	Model No. RXJJ- No Heat A06D A10D A15D A20D	No. of Sequence Steps 1 1 1 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 24 480 VOLT, THRE Power Supply for	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 ELECTRIC HEAT	ir Conditioner Max. Ove Protective 480 20 2 2 2 3 3 3 4 4 ER KITS CHARA	er Current Device Size D V 0 0 0 5 0 0 ACTERISTICS AI	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 37 ND APPLICATIO Separ	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25 30 40 25 30 40 	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16	Air Conditions Max. Ove Protective 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size O V 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D	No. of Sequence Steps 1 1 1 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 24 24 24 Wower Supply for Heater Kit	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 ELECTRIC HEAT	ir Conditioner Max. Ove Protective 480 20 2 2 2 3 3 3 4 4 ER KITS CHARA ir Conditioner Max. Ove	er Current Device Size D V 0 0 0 5 0 0 ACTERISTICS AI	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 VD APPLICATIO Separ Heate Min. Ckt.	Atte Power Su er Kit Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Su er Kit	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16	Air Conditions Max. Ove Protective 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size D V 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D	No. of Sequence Steps 1 1 1 1 1 1 1 Single	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 24 480 VOLT, THRE Power Supply for	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 26 33 40 26	ir Conditioner Max. Ove Protective 480 20 2 2 2 3 3 3 4 4 ER KITS CHARA ir Conditioner Max. Ove	er Current Device Size D V 0 0 0 0 0 5 0 0 ACTERISTICS AI er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 ND APPLICATIO Separ Heate	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25 30 40 25 30 40 	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16	Air Conditions Max. Ove Protective 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D A24D Heater Kit Model No. RXJJ-	No. of Sequence Steps 1 1 1 1 1 1 1 Single	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 24 24 24 24 24 24 24 24 24 24 24 24	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an Heater KBTU/Hr @	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Amp. @	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 ELECTRIC HEAT ELECTRIC HEAT A Unit Min. Ckt. Ampacity @ 480 V	ir Conditioner Max. Ove Protective 480 20 2 2 2 2 3 3 3 4 4 ER KITS CHARA Ir Conditioner Max. Ove Protective 480	er Current Device Size D V 0 0 0 0 0 5 0 0 ACTERISTICS AI er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 VD APPLICATIC Separ Heate Min. Ckt. Ampacity	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25 30 40 DN Atte Power Su rr Kit Max. Fuse	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16 16 16 Min. Circuit Ampacity 480V	Air Conditions Max. Ove Protective 480 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D A24D Heater Kit Model No. RXJJ-	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 Single No. of Sequence Steps	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 480 VOLT, THRE Power Supply for Heater Kit Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an Heater KBTU/Hr @ 480 V	d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Kit Heater Amp. @ 480 V	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26 33 40 26 33 40 ELECTRIC HEAT ELECTRIC HEAT Unit Min. Ckt. Ampacity @ 480 V	ir Conditioner Max. Ove Protective 480 20 20 2 2 2 3 3 3 4 4 ER KITS CHARA Ir Conditioner Max. Ove Protective 480 20	er Current Device Size 0 V 0 0 0 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 VD APPLICATIO Separ Heate Min. Ckt. Ampacity 480V	ate Power Su er Kit Max. Fuse Size 480V 15 15 25 30 40 DN ate Power Su er Kit Max. Fuse Size 480V	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16 16 Min. Circuit Ampacity 480V 16	Air Conditions Max. Ove Protective 480 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D A24D Heater Kit Model No. RXJJ- No Heat A06D	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 Single No. of Sequence Steps 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 480 VOLT, THRE Power Supply fo Heater Kit Rated Heater kW @ 480 V 5.6	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an KBTU/Hr @ 480 V 19.1	d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Kit Heater Amp. @ 480 V 6.7	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 26 33 40 ELECTRIC HEAT ELECTRIC HEAT Unit Min. Ckt. Ampacity @ 480 V	ir Conditioner Max. Ove Protective 480 20 2 2 2 2 3 3 3 4 4 5 5 6 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 VD APPLICATIO Separ Heate Min. Ckt. Ampacity 480V	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25 30 40 15 N Atte Power Su rr Kit Max. Fuse Size 480V 15 15 15 	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16 Min. Circuit Ampacity 480V 16 16	Air Conditions Max. Ove Protective 480 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er er Current Device Size 0 V 0 0 0 0 0 0 0 0 0 0 0 0 0
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D A24D Heater Kit Model No. RXJJ- No Heat A06D A10D	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 Single No. of Sequence Steps 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 480 VOLT, THRE Power Supply fo Heater Kit Rated Heater kW @ 480 V 5.6 9.6	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an KBTU/Hr @ 480 V 19.1 32.75	d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Kit Heater Amp. @ 480 V 6.7 11.6	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 30 26 33 40 26 33 40 26 33 40 26 33 40 26 33 40 26 33 40 26 56 33 40 26 56 33 40 26 56 33 40 26 56 57 57 57 57 57 57 57 57 57 57 57 57 57	ir Conditioner Max. Ove Protective 480 20 2 2 2 2 3 3 3 4 4 ER KITS CHARA Ir Conditioner Max. Ove Protective 480 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 22 30 37 VD APPLICATIO Separ Heate Min. Ckt. Ampacity 480V	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25 30 40 15 N Atte Power Su rr Kit Max. Fuse Size 480V 15 15 15 15 15 15 15 15 15 15	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16 16 Min. Circuit Ampacity 480V 16 16 16	Air Conditions Max. Ove Protective 480 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er er Current Device Size 0 V 0 0 0 0 0 0 0 0 0 0 0 0 0
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D A24D A24D A24D No Heat RXJJ- No Heat A06D A10D A15D	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 Single No. of Sequence Steps 1 1 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 480 VOLT, THRE Power Supply fo Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an RETU/Hr @ 480 V 19.1 32.75 49.13	Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY Heater Kit Heater Kit Heater Kit 6.7 11.6 17.4	A Unit Min. Ckt. Ampacity @ 480 V 16 16 19 26 33 40 26 33 40 26 26 20 40 26 20 40 26 20 16 16 16 19 26	ir Conditioner Max. Ove Protective 480 20 2 2 2 2 3 3 3 4 4 5 5 6 7 7 7 8 8 8 8 8 8 8 8 9 7 9 7 9 7 8 9 7 9 7	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 22 30 37 VD APPLICATIO Separ Heate Min. Ckt. Ampacity 480V	ate Power Su r Kit Max. Fuse Size 480V 15 15 25 30 40 15 25 30 40 15 15 15 15 15 15 15 15 15 15 	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16 Min. Circuit Ampacity 480V 16 16 16 16	Air Conditions Max. Ove Protective 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er er Current Device Size 0 V 0 0 0 0 0 0 0 0 0 0 0 0 0
RLKN-(B,C)073DL	Model No. RXJJ- No Heat A06D A10D A15D A20D A24D A24D Heater Kit Model No. RXJJ- No Heat A06D A10D	No. of Sequence Steps 1 1 1 1 1 1 1 1 1 1 1 Single No. of Sequence Steps 1 1 1	Heater Kit Rated Heater kW @ 480 V 5.6 9.6 14.4 19.2 24 480 VOLT, THRE Power Supply fo Heater Kit Rated Heater kW @ 480 V 5.6 9.6	Heater KBTU/Hr @ 480 V 19.1 32.75 49.13 65.5 81.88 E PHASE, 60 H or Both Unit an KBTU/Hr @ 480 V 19.1 32.75	d Heater Kit Heater Amp. @ 480 V 6.7 11.6 17.4 23.3 28.9 Z, AUXILIARY d Heater Kit Heater Kit Heater Amp. @ 480 V 6.7 11.6	A Unit Min. Ckt. Ampacity @ 480 V 16 16 16 19 26 33 40 30 26 33 40 26 33 40 26 33 40 26 33 40 26 33 40 26 33 40 26 56 33 40 26 56 33 40 26 56 33 40 26 56 57 57 57 57 57 57 57 57 57 57 57 57 57	ir Conditioner Max. Ove Protective 480 20 2 2 2 2 2 3 3 3 4 4 5 5 5 7 7 7 8 8 8 8 8 8 8 8 9 7 9 7 9 7 8 9 7 9 7	er Current Device Size	Separ Heate Min. Ckt. Ampacity 480V 9 15 22 30 37 22 30 37 22 30 37 VD APPLICATIO Separ Heate Min. Ckt. Ampacity 480V	Atte Power Su rr Kit Max. Fuse Size 480V 15 15 25 30 40 15 N Atte Power Su rr Kit Max. Fuse Size 480V 15 15 15 15 15 15 15 15 15 15	Min. Circuit Ampacity 480V 16 16 16 16 16 16 16 16 16 Min. Circuit Ampacity 480V 16 16 16	Air Conditions Max. Ove Protective 20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	er er Current Device Size 0 V 0 0 0 0 0 0 0 0 0 0 0 0 0

		1	600 VOLT, THRE	E PHASE, 60 H	Z, AUXILIARY	ELECTRIC HEAT	ER KITS CHARACTERISTICS A	ND APPLICATIO	ON		
		Single	Power Supply fo	or Both Unit an	d Heater Kit			Separ	ate Power Su	upply for Both	n Unit and Heater Kit
			Heater Kit			A	ir Conditioner	Heate	er Kit		Air Conditioner
Model Number	Heater Kit Model No.	No. of Sequence	Rated Heater	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt. Ampacity @	Max. Over Current Protective Device Size	Min. Ckt. Ampacity	Max. Fuse	Min. Circuit Ampacity	Max. Over Current Protective Device Size
	RXJJ-	Steps	kW @ 600 V	600 V	600 V	600 V	600 V	600V	Size 600V	600V	600 V
RLKN-(B,C)073YL	No Heat					11	15			11	15
	A15Y	1	14.4	49.13	13.9	20	20	18	20	11	15
	A20Y	1	19.2	65.5	18.8	27	30	24	25	11	15
	A24Y	1	24	81.88	23.1	32	35	29	30	11	15
	1		600 VOLT, THRE Power Supply fo				ER KITS CHARACTERISTICS A			upply for Both	n Unit and Heater Kit
		0	Heater Kit		A	ir Conditioner	Heate	er Kit		Air Conditioner	
Model Number	Heater Kit Model No.	No. of	Rated Heater	Heater KBTU/Hr @	Heater	Unit Min. Ckt.	Max. Over Current Protective Device Size	Min. Ckt. Ampacity	Max. Fuse	Min. Circuit	Max. Over Current Protective Device Size
	RXJJ-	Sequence Steps	kW @ 600 V	600 V	Amp. @ 600 V	Ampacity @ 600 V	600 V	600V	Size 600V	Ampacity 600V	600 V
RLKN-(B,C)073YM	No Heat					11	15			11	15
	A15Y	1	14.4	49.13	13.9	20	20	18	20	11	15
	A20Y	1	19.2	65.5	18.8	27	30	24	25	11	15
	A24Y	1	24	81.88	23.1	32	35	29	30	11	15



XVI. BELT-DRIVE AIRFLOW PERFORMANCE 6 TON MODEL

Nollitie State		CAP	CAPACITY: 6 TON	TON																																										
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	FLOW												ш	XTERNAL	- STATIC	PRESSU	RE - INC	HES OF \	VATER																											
PM WATTS PM WATS PM<	CFM	0	-	0	5	o	3	0	.4	0	5	0.0		0.7		0.8		0.9		1.0		1.10		1.20		1.30		1.40		1.50																
785 560 850 650 850 670 975 720 100 116 100 116 100 116 100 116 1160 <		RPM	WATTS		WATTS	RPM	WATTS		WATTS	RPM	WATTS		WATTS		VATTS															-																
- 775 600 815 820 720 930 710 940 1000 1145 1030 1175 1030 1175 1030 1175 1030 1175 1030 1175 1030 1175 1030 1175 1130	1800	I		I	I	I	Ι	785	560	850	605	895	650	930	670	975	_	1010		1050			-		-																					
810 620 840 820 720 820 100 100 1100 <th>2000</th> <th></th> <th>1</th> <th>775</th> <th>600</th> <th>815</th> <th>625</th> <th>860</th> <th>675</th> <th>895</th> <th>720</th> <th>930</th> <th>750</th> <th>975</th> <th>800</th> <th>1015</th> <th>840</th> <th>1050</th> <th></th> <th>1085</th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>-</th> <th></th> <th></th>	2000		1	775	600	815	625	860	675	895	720	930	750	975	800	1015	840	1050		1085		-				-		-																		
780 660 825 700 865 750 810 810 105 100 105 100 105 100 105 100 120 <th>2100</th> <td>I</td> <td>I</td> <td>810</td> <td>650</td> <td>840</td> <td>680</td> <td>880</td> <td>740</td> <td>920</td> <td>780</td> <td>955</td> <td>820</td> <td>995</td> <td>860</td> <td>1030</td> <td></td> <td>1065</td> <td></td> <td>1100</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>	2100	I	I	810	650	840	680	880	740	920	780	955	820	995	860	1030		1065		1100			-	-	-	-	-	-																		
815 720 855 760 890 837 930 930 930 930 930 930 930 930 930 930 930 930 930 930 930 930 930 930 930 1050 110 1030 1130 1230 1230 1330 1230 133	2200	780	660	825	700	865	750	910	810	945	850	980	880	1015	930	1050	1000	1080		1120		-	-	-		-	-	-	-																	
845 780 880 880 990 102 105 110 105 115 115 115 115 115 115 115 115 125 120 1470 1255 1470 1255 155	2300	815	720	855	760	890	830	930	870	960	910	1000	960	1035	1005	1065	1060	1100	-	1135	1180	-	-	-	-	-		-		1																
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300 940 1005 975 1060 1005 1175 1061 1295 1135 1350 1135 1350 1135 1200 1505 1270 1665 -	2500	870	855	910	915	945	975	980	1020	1020	1085	1045	1140	1080	1240	1110	1260	1135		1175		-	-	-	-	-	-	-		1																
830 107 970 1100 1000 1145 1030 1200 1260 1260 1335 1125 1305 1155 1470 1185 150 1202 1615 1235 1573 1235 1730	2600	006	945	940	1005	975	1060	1005	1105	1040	1175	1065	1225	1100	1295	1135		1165		1200	-	-			-	-				7																
	2700	930	1075	970	1100	1000	1145	1030	1200	1060	1260	1090	1335	1125	1305	1155		1185		1220	,-	-	-	-					1	1																

DRIVE PACKAGE				"]"							"M"			
MOTOR H.P.				1-1/2							1-1/2			
BLOWER SHEAVE			6.4 PI	6.4 PITCH DIAMETER	ETER					6.4 PI	6.4 PITCH DIAMETER	ETER		
MOTOR SHEAVE		C	2.8-3.8 PITCH DIAMETER – ADJ	CH DIAMET	rer – AdJ				3	.4-4.4 PITO	CH DIAME	3.4-4.4 PITCH DIAMETER – ADJ.		
TURNS OPEN	0	1	2	3	4	5	9	0	1	2	3	4	5	6
RPM	1100	1050	1000	945	895	845	780	1295	1230		1195 1145	1100	1050	1000

COMPONENT AIR RESISTANCE

				STAND	ARD INDOC	STANDARD INDOOR AIRFLOW - CFM	/ - CFM			
COMPONENT	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800
				RESISTA	RESISTANCE - INCHES WATER	S WATER				
WET COIL	.035	.040	.060	.070	.085	.100	.110	120	.125	.130
DOWNFLOW	.055	.060	.066	.072	.080	.086	.093	.100	.107	.115
ECONOMIZER R.A. DAMPER	.05	90.	.07	.08	60.	.10	.11	.12	.13	.15

NOTES:

1. PERFORMANCE SHOWN WITH DRY COIL & STANDARD 1" FILTERS

2. STANDARD CFM @ .075 LBS./CU. FT.

MOTOR EFFICIENCY = 80%
 BHP = WATTS X MOTOR EFF.

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5. ADD COMPONENT RESISTANCE TO DUCT STATIC TO DETERMINE TOTAL E.S.P.

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?
- 2. 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.
- 8. 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.
- 9. Turn thermostat system switch to proper mode "HEAT" or "COOL" 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. F. Indoor Wet Bulb _____ G. Outdoor Dry Bulb _____ °F. H. Outdoor Wet Bulb _____ °F. I. Voltage at Contactor _____ Volts J. Current at Contactor _____ Amps K. Model Number L. Serial Number_____ M.Location N. Owner O. Date
- 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.

WARNING

ONLY ELECTRIC HEATER KITS SUP-PLIED BY THIS MANUFACTURER AS DESCRIBED IN THIS PUBLICATION HAVE BEEN DESIGNED, TESTED, AND EVALUATED BY A NATION-ALLY RECOGNIZED SAFETY TEST-ING AGENCY FOR USE WITH THIS UNIT. USE OF ANY OTHER MAN-UFACTURED ELECTRIC HEATERS INSTALLED WITHIN THIS UNIT MAY CAUSE HAZARDOUS CONDITIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.

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. CHARGING INFORMATION

Refer to the appropriate charge chart included in this manual.

FIGURE 18

CHARGING CHART

SYSTEM CHAI	RGE CHAR	T - REFR	IGERANT 410A							
	OUTDOOR DRY BULB	6 -TON								
Pressure Req	uirements - G	ross Charge								
	115	508/143								
	105	443 / 142								
	95	385 / 141								
	85	333 / 138								
	75	281/136								
	65	243/131								
	55	205 / 128								
Sub Cooling R	equirements 115	- Final Charg	ge Verification							
105 16										
105 16 95 14										
	85	11	1							
	75	8								
	65	9]							
	55	10								
NOTICE: • It is required to fine tune 72°F and 82°F dry bulb a		oor ambient tem	perature must be between							
Measure liquid line temp	erature at four (4)	inches prior to n	netering device.							
 Confirm the indoor suppl Sheets. 	y air flow is correct	t, reference rate	d CFM in the unit Specification							
Allow the system to run	ong enough for te	mperatures and	pressures to stabilize.							
Sub-cooling tolerance is	•	liquid/upport	occurse that are signific							
 If obtaining rated sub-co different (>20 psig) from issue. Refer to unit Instal 	those listed on the	table there ma	essures that are significantly ay be a component or air flow further support.							
			92-104690-04-01							

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XXV. TROUBLESHOOTING CHART

AWARNING

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 	 Check for correct voltage at compressor contactor in control box Reset Check for 24 volts at contactor coil – replace if contacts are open
	Blown fuses Transformer defective High pressure control open (if provided) Interconnecting low voltage wiring damaged	 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 only) Loose connection Compressor stuck, grounded or open motor winding, open internal overload 	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.
	Low voltage condition Low voltage condition	 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 – Iow 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

XXVI. WIRING DIAGRAMS

Refer to the appropriate wiring diagram included in this manual.

FIGURE 19 WIRING DIAGRAM

