INSTALLATION INSTRUCTIONS

PACKAGE HEAT PUMPS

RJNL-C 13 SEER SERIES (3-5 TON)

RJNL-C 11.0 EER SERIES (6 TON)

RJPL-C 14 SEER SERIES (3-5 TON)

FEATURING INDUSTRY STANDARD R-410A REFRIGERANT - R-410A





RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION!

A WARNING

THESE INSTRUCTIONS ARE INTENDED AS 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, PROPER DAMAGE, PERSONAL INJURY OR DEATH.













ISO 9001:2008

DO NOT DESTROY THIS MANUAL

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

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II. SAFETY INFORMATION

WARNING

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WARNING

IMPORTANT: ALL MANUFACTURER PRODUCTS MEET CURRENT FEDERAL OSHA GUIDELINES FOR SAFETY. CALIFORNIA PROPOSITION 65 WARNINGS ARE REQUIRED FOR CERTAIN PRODUCTS, WHICH ARE NOT COVERED BY THE OSHA STANDARDS.

CALIFORNIA'S PROPOSITION 65 REQUIRES WARNINGS FOR PRODUCTS SOLD IN CALIFORNIA THAT CONTAIN, OR PRODUCE, ANY OF OVER 600 LIST-ED CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS SUCH AS FIBERGLASS INSULATION, LEAD IN BRASS, AND COMBUSTION PRODUCTS FROM NATURAL GAS.

ALL "NEW EQUIPMENT" SHIPPED FOR SALE IN CALIFORNIA WILL HAVE LABELS STATING THAT THE PRODUCT CONTAINS AND/OR PRODUCES PROPOSITION 65 CHEMICALS. ALTHOUGH WE HAVE NOT CHANGED OUR PROCESSES, HAVING THE SAME LABEL ON ALL OUR PRODUCTS FACILI-TATES MANUFACTURING AND SHIPPING. WE CANNOT ALWAYS KNOW "WHEN. OR IF" PRODUCTS WILL BE SOLD IN THE CALIFORNIA MARKET.

YOU MAY RECEIVE INQUIRIES FROM CUSTOMERS ABOUT CHEMICALS FOUND IN, OR PRODUCED BY, SOME OF OUR HEATING AND AIR-CONDITION-ING EQUIPMENT, OR FOUND IN NATURAL GAS USED WITH SOME OF OUR PRODUCTS. LISTED BELOW ARE THOSE CHEMICALS AND SUBSTANCES COMMONLY ASSOCIATED WITH SIMILAR EQUIPMENT IN OUR INDUSTRY AND OTHER MANUFACTURERS.

- GLASS WOOL (FIBERGLASS) INSULATION
- **CARBON MONOXIDE (CO)**
- FORMALDEHYDE
- BENZENE

MORE DETAILS ARE AVAILABLE AT THE WEBSITES FOR OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AT <u>WWW.OSHA.GOV</u> AND THE STATE OF CALIFORNIA'S OEHĤA (OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT), AT WWW.OEHHA.ORG. CONSUMER EDUCATION IS IMPORTANT SINCE THE CHEMICALS AND SUB-STANCES ON THE LIST ARE FOUND IN OUR DAILY LIVES. MOST CON-SUMERS ARE AWARE THAT PRODUCTS PRESENT SAFETY AND HEALTH RISKS, WHEN IMPROPERLY USED, HANDLED AND MAINTAINED.

▲ 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, 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 UNAUTHORIZED COMPONENTS, ACCESSORIES OR DEVICES MAY ADVERSELY 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.

WARNING

DO NOT, UNDER ANY CIRCUMSTANCES, 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, CARBON MONOXIDE POISONING, EXPLOSION, PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

WARNING

THE UNIT MUST BE PERMANENTLY GROUNDED. A GROUNDING LUG IS PROVIDED IN THE ELECTRIC HEAT KIT FOR A GROUND WIRE. (SEE FIGURES 16 AND 17.) FAILURE TO GROUND THIS UNIT CAN RESULT IN FIRE OR ELECTRICAL SHOCK CAUSING PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

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.

WARNING

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

A 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.



Recognize this symbol as an indication of Important Safety Information!

WARNING

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III. INTRODUCTION

This booklet contains the installation and operating instructions for your package heat pump. 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.

NOTE: A load calculation must be performed to properly determine the required heating and cooling for the structure. Also, the duct must be properly designed and installed for proper airflow. Existing dutwork must be inspected for proper size and sealed system. Proper airflow is necessary for both user comfort and equipment performance.

IMPORTANT: Proper application, installation and maintenance of this equipment is a must if consumers are to receiver the full benefit for which they have paid.

A. 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.

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.

Evaporator Coil / TXV

The thermostatic expansion valve is specifically designed to operate with R-410A. **DO NOT use an R-22 TXV.** The existing evaporator must be replaced with the factory specified TXV evaporator specifically designed for 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

A 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.

IV. 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, heating size, electrical characteristics, and accessories to determine if they are correct.

V. 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.



WARNING

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

- 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.

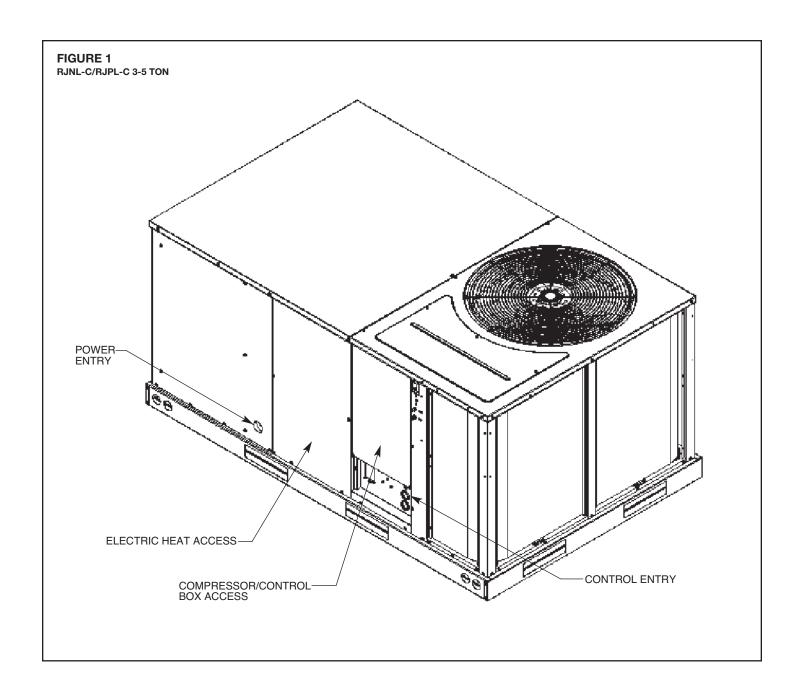
VI. INSTALLATION

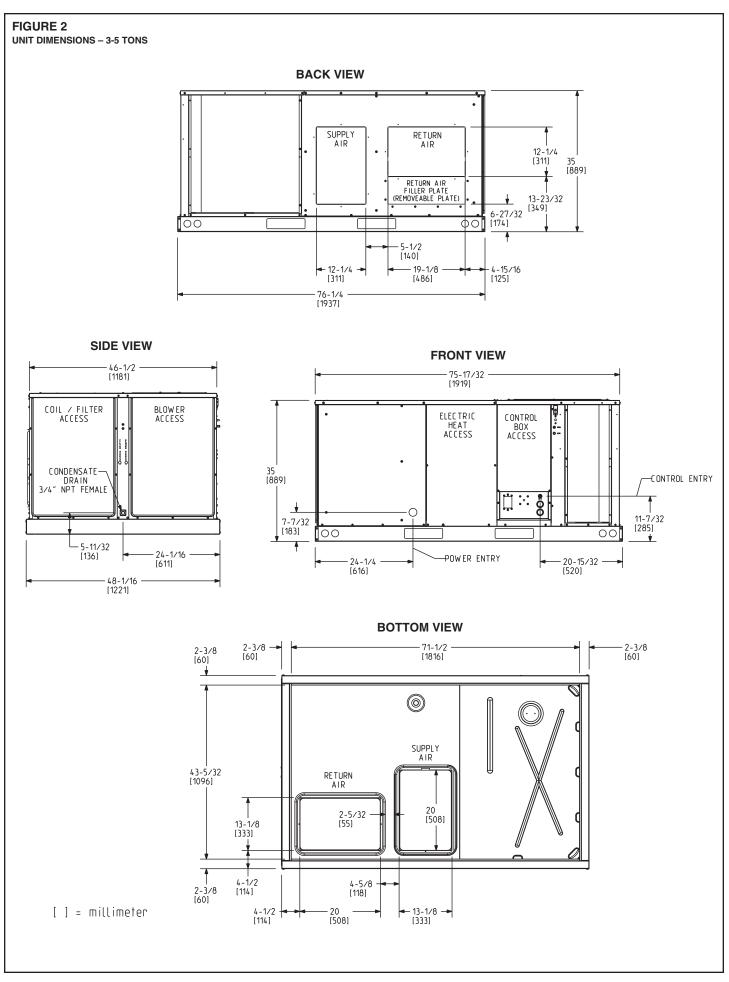
A. GENERAL

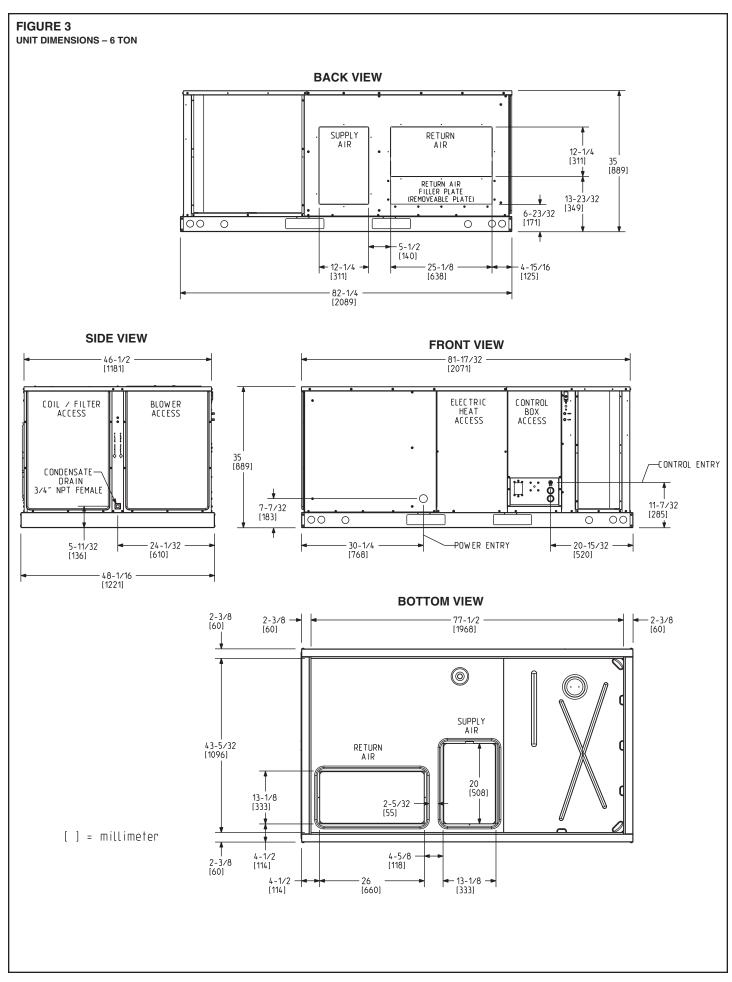
1. PRE-INSTALLATION CHECK-POINTS

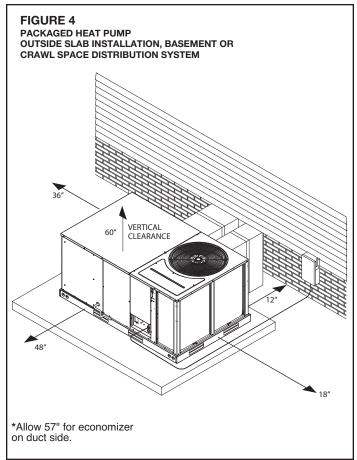
Before attempting any installation, the following points should be carefully considered:

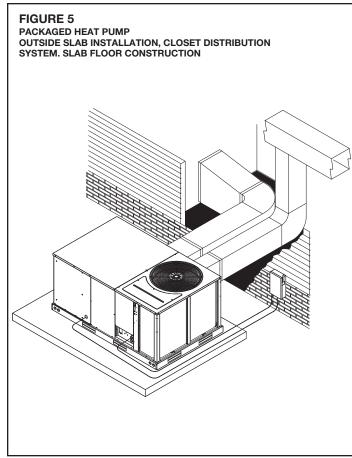
- a. Structural strength of supporting members. (rooftop installation)
- b. Clearances and provision for servicing.
- c. Power supply and wiring.
- d. Air duct connections.

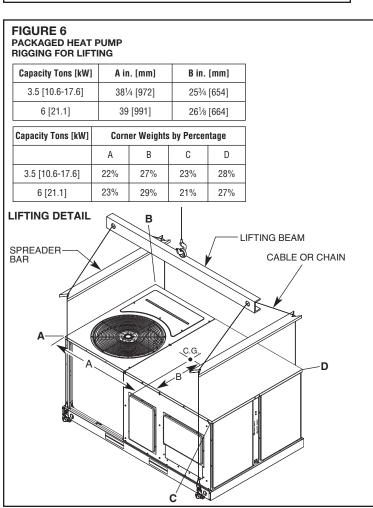


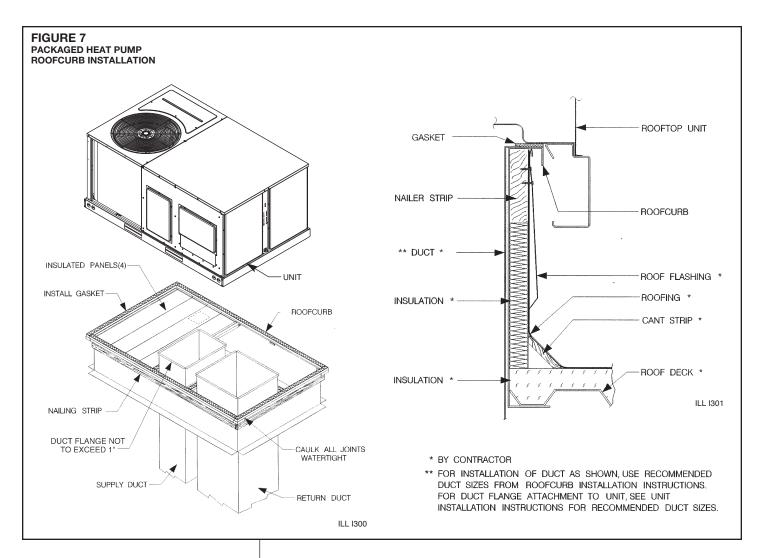












- e. Drain facilities and connections.
- f. Location for minimum noise.

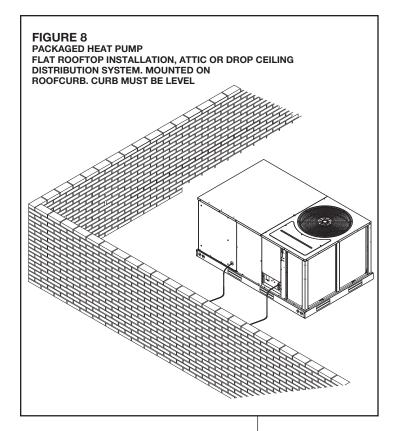
2. LOCATION

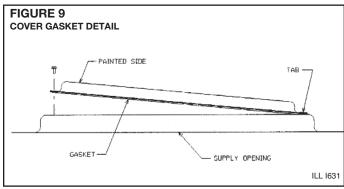
These units are designed for outdoor installations. They can be mounted on a slab or rooftop. They are not to be installed within any part of a structure such as an attic, crawl space, closet, or any other place where condenser air flow is restricted or other than outdoor ambient conditions prevail. 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 4 and 5.)

- 1. Select a location where external water drainage cannot collect around the unit.
- 2. 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.
- 5. 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.
- 6. It is essential that the unit be elevated above the base pad to allow for condensate drainage and possible refreezing of condensation. Provide a base pad which is slightly pitched away from the structure. Route condensate off base pad to an area which will not become slippery and result in personal injury.
- 7. Where snowfall is anticipated, the height of the unit above the ground level must be considered. Mount unit high enough to be above average area snowfall and to allow for proper condensate drainage.





C. CLEARANCES

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

- 1. Provide 48" minimum clearance at the front of the unit. Provide 36" minimum clearance at the left and right side of the unit for service access.
- 2. Provide 60" minimum clearance between top of unit and maximum 3 foot overhang.
- 3. Unit is design certified for application on combustible flooring with 0" minimum clearance.
- 4. See Figure 4 for illustration of minimum installation-service clearances.

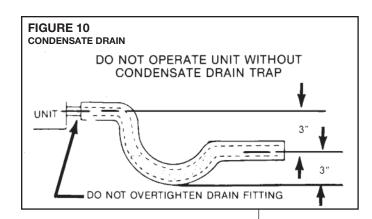
D. ROOFTOP INSTALLATION

- 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.
- For rigging and roofcurb details, see Figures 6 and 7. 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 during defrosting must be provided.
- 5. The unit should be placed on a solid and level roofcurb or platform of adequate strength. See Figure 8.
- 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.

VII. 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.





WARNING

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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

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".

VIII. FILTERS

This unit is provided with 2 - 25" x 16" x 1" (3-5 ton) 4 - 16" x 16" x 1" (6 ton) disposable filters. When replacing filters, ensure they are inserted fully to the back to prevent bypass.

IX. 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 9. Use the existing gasket to seal the covers.
- 3. Secure the supply cover to the base of the unit with 1 screw, engaging prepunched tab in unit base.
- 4. Secure the return cover to the base of the unit with screws, engaging prepunched holes in the unit base.

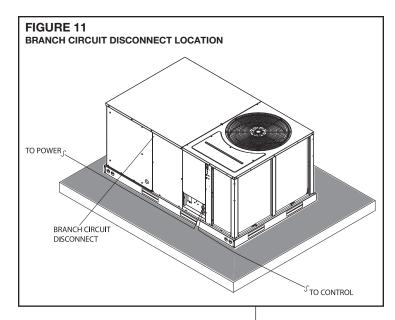


TABLE A WIRE SIZES			
AWG Copper Wire Size	AWG Aluminum Wire Size	Connector Type (or equivale	
#12	#10	T&B Wire Nut	PT2
#10	#8	T&B Wire Nut	PT3
#8	#6	Ilsco Split Bolt	AK-6
#6	#4	Ilsco Split Bolt	AK-4
#4	#2	Ilsco Split Bolt	AK-2
#3	#1	Ilsco Split Bolt	AK-1/0
#2	#0	Ilsco Split Bolt	AK-1/0
#1	#00	Ilsco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

X. CONDENSATE DRAIN

The condensate drain connection of the evaporator is 3/4" nominal female pipe thread. **IMPORTANT:** Install a condensate trap to ensure proper condensate drainage. See Figure 10.

XI. CONDENSATE DRAIN, OUTDOOR COIL

The outdoor coil during heating operation will sweat or run water off. The outdoor coil will also run water off during the defrost cycle. See Section V, Installation, for mounting precautions.

XII. ELECTRICAL WIRING

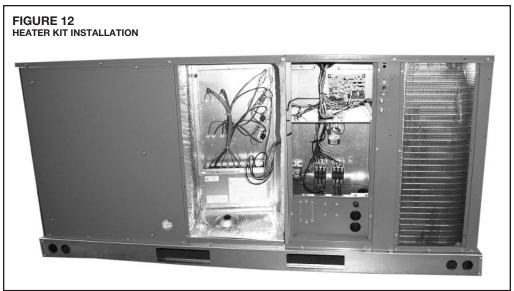
Field wiring must comply with the National Electrical Code* and local ordinances that may apply.

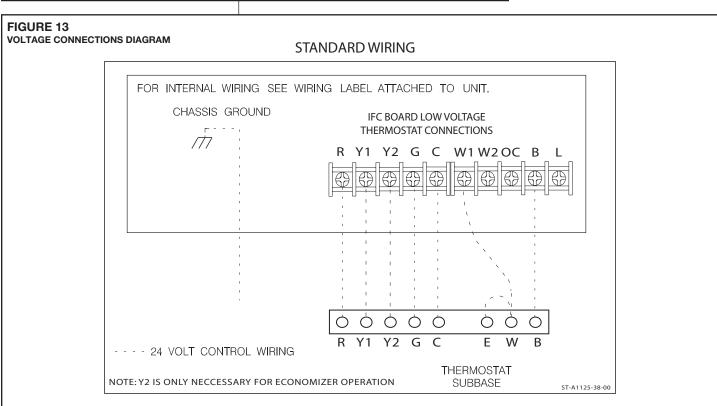
*C.E.C. in Canada

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 to handle the starting current. A bracket is supplied with the unit for mounting a disconnect to the unit. Refer to Figure 11 for proper location.
 - For branch circuit wiring (main power supply to unit disconnect), the minimum wire size can be determined from Table C using the circuit ampacity found on the unit nameplate or from the Electrical Data.
 - 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 pigtails 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 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.

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.
- 3. 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.

TABLE C COPPER WIRE SIZE – AWG (1% VOLTAGE DROP)

	300	4	3	2	2	1	1/0	1/0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	250	250	250	250	300	300	300	300	300	350	350	350	350
Supply	250	4	4	3	3	2	1	1	1/0	1/0	2/0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	4/0	250	250	250	250	250	350	350	350	350
Wire																														
Length	150	8	6	6	4	4	4	3	3	2	2	1	1	1/0	1/0	1/0	1/0	2/0	2/0	2/0	2/0	2/0	3/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0
Feet	100	10	8	8	6	6	6	4	4	4	3	3	2	2	2	1	1	1	1	1	1/0	1/0	1/0	1/0	1/0	1/0	1/0	2/0	2/0	2/0
	50	14	12	10	10	8	8	6	6	6	4	4	4	3	3	3	2	2	2	2	2	1	1	1	1	1/0	1/0	1/0	1/0	2/0
		15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155

Circuit Ampacity

NOTE:

- 1. Wire size based on 60°C type copper conductors below 100 ampacity. 2. Wire size based on 75°C type copper conductors for 100 ampacity and above.
 - 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. 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 below the unit control box.
- 3. It is necessary that only heat pump thermostats be used.
- 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.

IMPORTANT: Some single phase units are equipped with a single pole contactor. Caution must be exercised when servicing as only one leg of the power supply is broken with the contactor. Some models are equipped with electrically commutated blower motors which are constantly energized unless the main unit disconnect is in the off position.

E. GROUNDING



WARNING

THE UNIT MUST BE PERMANENTLY GROUNDED. A GROUNDING LUG IS PROVIDED IN THE ELECTRIC HEAT 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.

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 heat pump thermostat package CAREFULLY because each has some different wiring requirements.

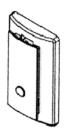
XIII. INDOOR AIR FLOW DATA

Direct-drive blower models are shipped factory wired for the proper speed at a typical external static. Belt-drive blower models have motor sheaves set for proper CFM at a typical external static.

XIV. ROOM TEMPERATURE SENSORS

FIGURE 14

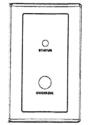
FLUSH MOUNT ROOM TEMPERATURE SENSOR FOR NETWORKED DDC APPLICATIONS (REPLACES THERMOSTAT)



ROOM
TEMPERATURE
SENSOR WITH
TIMED OVERRIDE
BUTTON

ZNS1

←10kΩ room temperature sensor transmits room temperature to DDC system. Times override buttons allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



ROOM
TEMPERATURE
SENSOR WITH
TIMED OVERRIDE
BUTTON AND
STATUS INDICATOR

ZNS₂

←10kΩ room temperature sensor transmits room temperature to DDC system. Times override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time. Status Indicator Light transmits ALARM flash code to occupied space.



ROOM
TEMPERATURE
SENSOR WITH
SETPOINT
ADJUSTMENT AND
TIMED OVERRIDE
BUTTON

ZNS3

←10kΩ room temperature sensor with setpoint adjustment transmits room temperature to DDC system along with desired occupied room temperature setpoint. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.

XV. CRANKCASE HEAT (OPTIONAL)

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

XVI. 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? (See Figure 4.)
- 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?
- 8. Is unit elevated to allow for outdoor coil condensate drainage during heating operation and defrost?

XVII. 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.
- Turn thermostat system switch to "HEAT." Unit should stop. Wait 5 minutes, then
 raise temperature setting to above room temperature. Unit should run in heating
 mode and after about 30 to 50 seconds auxiliary heaters, if installed, should come
 on.
- Check the refrigerant charge using the instructions located on compressor access panel cover. Replace service port caps. Service port cores are for system access only and will leak if not tightly capped.
- 10. 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. Indoor Wet Bulb	°F.
G. Outdoor Dry Bulb	°F.
H. Outdoor Wet Bulb	°F.
Voltage at Contactor	Volts
J. Current at Contactor	
K. Model Number	
L. Serial Number	
M. Location	
N. Owner	
O. Date	

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

XVIII. OPERATION

Most single phase units are operated PSC (no start relay or start capacitor). It is important that such systems be off for a minimum of 5 minutes before restarting to allow equalization of pressures. The thermostat should not be moved to cycle unit without waiting five minutes. To do so may cause the compressor to stop on an automatic open overload device or blow a fuse. Poor electrical service can cause nuisance tripping in overloads or blow fuses.

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.

Some units are equipped with a time delay control (TDC1). The control allows the blower to operate for up to 90 seconds after the thermostat is satisfied.

XIX. AUXILIARY HEAT

The amount of auxiliary heat required depends on the heat loss of the structure to be heated and the capacity of the heat pump. It is good practice to install strip heat to maintain at least 60°F indoor temperatures in case of compressor failure. The auxiliary heat is energized by the second stage of the thermostat. The amount of electric heat that is allowed to come on, as determined by the output of the heat pump, may be controlled by an outdoor thermostat.



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 CONDI-TIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.

A. 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. The reversing valve coil is de-energized.
- 2. In the heating mode, the first heat stage of the thermostat will energize the compressor contactor and the indoor blower relay. The second heat stage will turn on one or more supplementary resistance heaters. The reversing valve is energized except in defrost. If required or considered desirable, the resistance heat may also be controlled by outdoor thermostats.

XX. DEMAND DEFROST CONTROL

The demand defrost control is incorporated into the rooftop control board (RTU-C) and the basic function is as follows:

The demand defrost control monitors the outdoor ambient temperature, outdoor coil temperature, and the compressor runtime to determine when a defrost cycle is required.

The defrost control has high and low pressure control inputs with unique pressure switch logic built into the microprocessor to provide compressor and system protection without nuisance lock-outs. Cycles the compressor off for 5 seconds at the beginning and end of the defrost cycle to eliminate the increased compressor noise caused by rapidly changing system pressurres when the reversing valve switches.

DEFROST INITIATION

A defrost will be initiated when the three conditions below are satisfied:

- 1) The outdoor coil temperature is below 35°F.
- The compressor has operated for at least 34 minutes with the outdoor coil temperature below 35°F.
- 3) The measured difference between the ambient temperature and the outdoor coil temperature is greater than the calculated delta T. Additionally, a defrost will be initiated if six hours of accumulated compressor run-time has elapsed without a defrost with the outdoor coil temperature below 35°F.

DEFROST TERMINATION

Once a defrost is initiated, the defrost will continue until fourteen minutes has elapsed or the coil temperature has reached the terminate temperature. The terminate temperature is factory set at 70°F. The terminate temperature can be changed through the rooftop control board (RTU-C) refer to RTU-C information manual to change the termination temperature.

TEMPERATURE SENSORS

The coil sensor is clipped to a tube on the outdoor coil at the point fed by the distribution tubes from the expansion device (short 3/8" dia. tube). The air sensor is located behind a cover on the post located on control access side of the unit. If the ambient sensor fails the defrost control will initiate a defrost every 34 minutes with the coil temperature below 35°F. If the coil sensor fails the defrost control will not initiate a defrost.

TEST MODE

The test mode is initiated by shorting the TEST pins. In this mode of operation, the enable temperature is ignored and all timers are sped up by a factor of 240. To initiate a manual defrost, short the TEST pins. Remove the short when the system switches to defrost mode. The defrost will terminate on time (14 minutes) or when the termination temperature has been achieved. *Short TEST pins again to terminate the defrost immediately.*

HIGH/LOW PRESSURE CONTROL MONITORING - ENHANCED DEFROST CONTROL ONLY.

Status of high and low pressure controls is monitored by the demand defrost control and the following actions are taken.

High Pressure Control – Provides active protection in both cooling and heating modes at all outdoor ambient temperatures. The high pressure control is an automatic reset type and opens at approximately 610 psig and closes at approximately 420 psig. The compressor and fan motor will stop when the high pressure control opens and will start again if the high side pressure drops to approximately 420 psig when the automatic reset high pressure control resets. If the high pressure control opens 3 times within a particular call for heating or cooling operation, the defrost control will lock out compressor and outdoor fan operation.

Low Pressure Control – Provides active protection in both heating and cooling modes at all outdoor ambient temperatures. The low pressure control is an automatic reset type and opens at approximately 15 psig and closes at approximately 40 psig. Operation is slightly different between cooling and heating modes.

Cooling Mode: The compressor and fan motor will stop when the low pressure control opens and will start again when the low side pressure rises to approximately 40 psig when the low pressure control automatically resets. If the low pressure switch opens 3 times within a particular call for cooling operation, the defrost control will lock out compressor and outdoor fan operation.

Heating Mode: The compressor and fan motor will stop when the low pressure control opens and will start again when the low side pressure rises to approximately 40 psig when the low pressure control automatically resets. If the low pressure switch trips 3 times within 120 minutes of operation during a particular call for heating operation, the defrost control will lock out compressor and outdoor fan operation. If the lock-out due to low pressure occurs at an outdoor

ambient temperature below 5°F, the defrost control will automatically exit the lock-out mode when the outdoor ambient temperature rises to 5°F. This feature is necessary since the low pressure control could possibly have opened due to the outdoor ambient being very low rather than an actual system fault.

For more information regarding the defrost control function refer to RTU-C information Manual.

XXI. REPLACEMENT PARTS

Contact your local distributor for a complete parts list.

XXII. CHARGE INFORMATION

Refer to the appropriate charge chart included in this manual.

XXIII. TROUBLESHOOTING

Refer to the troubleshooting chart included in this manual.

XXIV. WIRING DIAGRAMS

Refer to the appropriate wiring diagram included in this manual.

Model RJNL - Series	C036CL	C036CM	C036DL	C036DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	37,800 [11.08]	37,800 [11.08]	37,800 [11.08]	37,800 [11.08]
EER, SEER ²	11.5/13	11.5/13	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]
AHRI Net Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
Net Sensible Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
Net Latent Capacity Btu [kW]	9,200 [2.7]	9,200 [2.7]	9,200 [2.7]	9,200 [2.7]
Net System Power kW	3.1	-, 1	3.1	3.1
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	34,400 [10.08]	34,400 [10.08]	34,400 [10.08]	34,400 [10.08]
System Power KW / COP	2.94/3.4	2.94/3.4	2.94/3.4	2.94/3.4
Low Temp. Btuh [kW] Rating	19,600 [5.74]	19,600 [5.74]	19,600 [5.74]	19,600 [5.74]
System Power KW / COP	2.72/2.1	2.72/2.1	2.72/2.1	2.72/2.1
HSPF (Btu/Watts-hr)	7.699999809	7.699999809	7.699999809	7.699999809
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]
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
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	3/4	1/2	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
Refrigerant Charge Oz. [g]	116 [3289]	116 [3289]	116 [3289]	116 [3289]
Weights				
Net Weight lbs. [kg]	517 [235]	517 [235]	517 [235]	517 [235]
Ship Weight lbs. [kg]	532 [241]	532 [241]	532 [241]	532 [241]

- 2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- 3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

^{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.

Model RJNL - Series	C042CL	C042CM	C042DL	C042DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	44,000 [12.89]	44,000 [12.89]	44,000 [12.89]	44,000 [12.89]
EER, SEER ²	11.2/13	11.213	11.2/13	11.2/13
Nominal CFM/AHRI Rated CFM [L/s]	1400/1400 [661/661]	1400/1400 [661/661]	1400/1400 [661/661]	1400/1400 [661/661]
AHRI Net Cooling Capacity Btu [kW]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]
Net Sensible Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
Net Latent Capacity Btu [kW]	10,800 [3.16]	10,800 [3.16]	10,800 [3.16]	10,800 [3.16]
Net System Power kW	3.74	3.74	3.74	3.74
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]
System Power KW / COP	3.38/3.5	3.38/3.5	3.38/3.5	3.38/3.5
Low Temp. Btuh [kW] Rating	24,400 [7.15]	24,400 [7.15]	24,400 [7.15]	24,400 [7.15]
System Power KW / COP	3.12/2.3	3.12/2.3	3.12/2.3	3.12/2.3
HSPF (Btu/Watts-hr)	7.699999809	7.699999809	7.699999809	7.699999809
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]
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
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	3/4	1/2	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
Refrigerant Charge Oz. [g]	120 [3402]	120 [3402]	120 [3402]	120 [3402]
Weights	<u> </u>		<u> </u>	<u> </u>
Net Weight lbs. [kg]	521 [236]	521 [236]	521 [236]	521 [236]
Ship Weight lbs. [kg]	536 [243]	536 [243]	536 [243]	536 [243]

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

Model RJNL - Series	C048CL	C048CM	C048DL	C048DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	50,000 [14.65]	50,000 [14.65]	50,000 [14.65]	50,000 [14.65]
EER, SEER ²	11.2/13	11.213	11.2/13	11.2/13
Nominal CFM/AHRI Rated CFM [L/s]	1600/1600 [755/755]	1600/1600 [755/755]	1600/1600 [755/755]	1600/1600 [755/755]
AHRI Net Cooling Capacity Btu [kW]	47,500 [13.92]	47,500 [13.92]	47,500 [13.92]	47,500 [13.92]
Net Sensible Capacity Btu [kW]	35,700 [10.46]	35,700 [10.46]	35,700 [10.46]	35,700 [10.46]
Net Latent Capacity Btu [kW]	11,800 [3.46]	11,800 [3.46]	11,800 [3.46]	11,800 [3.46]
Net System Power kW	4.22	4.22	4.22	4.22
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
System Power KW / COP	3.93/3.6	3.93/3.6	3.93/3.6	3.93/3.6
Low Temp. Btuh [kW] Rating	29,000 [8.5]	29,000 [8.5]	29,000 [8.5]	29,000 [8.5]
System Power KW / COP	3.63/2.3	3.63/2.3	3.63/2.3	3.63/2.3
HSPF (Btu/Watts-hr)	7.699999809	7.699999809	7.699999809	7.699999809
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	3/4	1/2	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
Refrigerant Charge Oz. [g]	187 [5301]	187 [5301]	187 [5301]	187 [5301]
Weights				
Net Weight lbs. [kg]	535 [243]	535 [243]	535 [243]	535 [243]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	550 [249]

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

Model RJNL - Series	C060CL	C060CM	C060DL	C060DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	61,500 [18.02]	61,500 [18.02]	61,500 [18.02]	61,500 [18.02]
EER, SEER ²	11.5/13	11.5/13	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	2000/2000 [944/944]	2000/2000 [944/944]	2000/2000 [944/944]	2000/2000 [944/944]
AHRI Net Cooling Capacity Btu [kW]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]
Net Sensible Capacity Btu [kW]	44,050 [12.91]	44,050 [12.91]	44,050 [12.91]	44,050 [12.91]
Net Latent Capacity Btu [kW]	14,950 [4.38]	14,950 [4.38]	14,950 [4.38]	14,950 [4.38]
Net System Power kW	5.04	5.04	5.04	5.04
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	4.78/3.6	4.78/3.6	4.78/3.6	4.78/3.6
Low Temp. Btuh [kW] Rating	35,800 [10.49]	35,800 [10.49]	35,800 [10.49]	35,800 [10.49]
System Power KW / COP	4.31/2.4	4.31/2.4	4.31/2.4	4.31/2.4
HSPF (Btu/Watts-hr)	7.699999809	7.699999809	7.699999809	7.699999809
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
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	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075	1075	1075
				FC Centrifugal
Indoor Fan - Type No. Used/Diameter in. [mm]	FC Centrifugal 1/10x10 [254x254]	FC Centrifugal 1/10x10 [254x254]	FC Centrifugal 1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3/4	1	3/4	=
Motor RPM	1725 56	1725 56	1725	1725 56
Motor Frame Size			56	
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished (NO.) Size Recommended in. [mm x mm x mm]	Yes (2)1y25y16 [25y635y406]	Yes (2)1y25y16 [25y635y406]	Yes (2)1y25y16 [25y635y406]	Yes (2)1x25x16 [25x635x406]
· · · · · · · · · · · · · · · · · · ·	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	.,
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights	EGE [0EG]	EGE [0EG]	EGE [0EG]	EGE [0EG]
Net Weight lbs. [kg]	565 [256]	565 [256]	565 [256]	565 [256]
Ship Weight lbs. [kg]	580 [263]	580 [263]	580 [263]	580 [263]

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

Model RJNL - Series	C072CL	C072CM	C072DL	C072DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	73,000 [21.39]	73,000 [21.39]	73,000 [21.39]	73,000 [21.39]
EER, SEER ²	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2125 [1133/1003]	2400/2125 [1133/1003]	2400/2125 [1133/1003]	2400/2125 [1133/1003]
AHRI Net Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]
Net Sensible Capacity Btu [kW]	50,700 [14.85]	50,700 [14.85]	50,700 [14.85]	50,700 [14.85]
Integrated Part Load Value ³	19,300 [5.65]	19,300 [5.65]	19,300 [5.65]	19,300 [5.65]
Net Latent Capacity Btu [kW]	N/A	N/A	N/A	N/A
Net System Power kW	6.37	6.37	6.37	6.37
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	5.79/3.44	5.79/3.44	5.79/3.44	5.79/3.44
Low Temp. Btuh [kW] Rating	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]
System Power KW / COP	5.22/2.3	5.22/2.3	5.22/2.3	5.22/2.3
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2/22 [9]	2/22 [9]	2/22 [9]	2/22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	6.5 [0.6]	6.5 [0.6]	6.5 [0.6]	6.5 [0.6]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
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
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x16x16 [25x406x406]	(2)1x16x16 [25x406x406]	(2)1x16x16 [25x406x406]	(2)1x16x16 [25x406x406]
Refrigerant Charge Oz. [g]	221 [6265]	221 [6265]	221 [6265]	221 [6265]
Weights				
Net Weight lbs. [kg]	620 [281]	620 [281]	620 [281]	620 [281]
Ship Weight lbs. [kg]	635 [288]	635 [288]	635 [288]	635 [288]

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

38,500 [11.28] 12/14	38,500 [11.28]	00 500 [44 00]	Continued ->
	38,500 [11.28]	00 500 [44 00]	
12/14		38,500 [11.28]	38,500 [11.28]
	12/14	12/14	12/14
1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]
36,800 [10.78]	36,800 [10.78]	36,800 [10.78]	36,800 [10.78]
27,200 [7.97]	27,200 [7.97]	27,200 [7.97]	27,200 [7.97]
			9,600 [2.81]
2.99	2.99	2.99	2.99
33.600 [9.84]	33.600 [9.84]	33.600 [9.84]	33,600 [9.84]
			2.79/3.48
			19,400 [5.68]
			2.56/2.22
			8
	-	-	
1/Coroll	1/Caroll	1/Caroll	1/Scroll
			83
			Louvered
			Rifled
0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
16.89 [1.57]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]
			1 / 22 [9]
TX Valves	TX Valves	TX Valves	TX Valves
Louvered	Louvered	Louvered	Louvered
Rifled	Rifled	Rifled	Rifled
0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
TX Valves	TX Valves	TX Valves	TX Valves
1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Propeller			Propeller
-1	•	•	1/24 [609.6]
			Direct/1
			4000 [1888]
			1 at 1/3 HP
			1075
9	•	· ·	FC Centrifugal
			1/10x10 [254x254]
			Belt/Variable
	•	-	1
			3/4
			1725
56	56	56	56
Disposable	Disposable	Disposable	Disposable
Yes	Yes	Yes	Yes
(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
116 [3289]	116 [3289]	116 [3289]	116 [3289]
517 [235]	517 [235]	517 [235]	517 [235]
			532 [241]
	9,600 [2.81] 2.99 33,600 [9.84] 2.79/3.48 19,400 [5.68] 2.56/2.22 8 1/Scroll 83 Louvered Rifled 0.375 [9.5] 16.89 [1.57] 1 / 22 [9] TX Valves Louvered Rifled 0.375 [9.5] 5.16 [0.48] 3 / 13 [5] TX Valves 1/1 [25.4] Propeller 1/24 [609.6] Direct/1 4000 [1888] 1 at 1/3 HP 1075 FC Centrifugal 1/10x10 [254x254] Belt/Variable 1 1/2 1725 56 Disposable Yes (2)1x25x16 [25x635x406]	9,600 [2.81] 2.99 33,600 [9.84] 2.79/3.48 19,400 [5.68] 19,400 [5.68] 2.56/2.22 8 1/Scroll 1/Scroll 1/Scroll 83 83 Louvered Rifled 0.375 [9.5] 16.89 [1.57] 1 / 22 [9] TX Valves Louvered Rifled Rifled 0.375 [9.5] 16.89 [1.57] 1 / 22 [9] TX Valves Louvered Rifled 0.375 [9.5] 5.16 [0.48] 3 / 13 [5] TX Valves TX Valves 1/1 [25.4] Propeller 1/24 [609.6] Direct/1 4000 [1888] 1 at 1/3 HP 1075 FC Centrifugal 1/10x10 [254x254] Belt/Variable 1 1 1 1/2 3/4 1725 56 Disposable Yes (2)1x25x16 [25x635x406] 116 [3289] 517 [235] 517 [235] 517 [235]	9,600 [2.81] 2.99 2.99 2.99 2.99 2.99 2.99 2.99 2.9

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

Model RJPL - Series	C042CL	C042CM	C042DL	C042DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	44,000 [12.89]	44,000 [12.89]	44,000 [12.89]	44,000 [12.89]
EER, SEER ²	11.6/14	11.6/14	11.6/14	11.6/14
Nominal CFM/AHRI Rated CFM [L/s]	1400/1400 [661/661]	1400/1400 [661/661]	1400/1400 [661/661]	1400/1400 [661/661]
AHRI Net Cooling Capacity Btu [kW]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]
Net Sensible Capacity Btu [kW]	31,750 [9.3]	31,750 [9.3]	31,750 [9.3]	31,750 [9.3]
Net Latent Capacity Btu [kW]	10,250 [3]	10,250 [3]	10,250 [3]	10,250 [3]
Net System Power kW	3.64	3.64	3.64	3.64
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	40,000 [11.72]	40,000 [11.72]	40,000 [11.72]	40,000 [11.72]
System Power KW / COP	3.23/3.6	3.23/3.6	3.23/3.6	3.23/3.6
Low Temp. Btuh [kW] Rating	24,200 [7.09]	24,200 [7.09]	24,200 [7.09]	24,200 [7.09]
System Power KW / COP	2.94/2.4	2.94/2.4	2.94/2.4	2.94/2.4
HSPF (Btu/Watts-hr)	8	8	8	8
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Type Tube Size in. [mm] OD				
	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]	16.89 [1.57]
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
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	3/4	1/2	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
Refrigerant Charge Oz. [g]	120 [3402]	120 [3402]	120 [3402]	120 [3402]
Weights	[- :]	- [- :]	- []	- 11
Net Weight lbs. [kg]	521 [236]	521 [236]	521 [236]	521 [236]
Ship Weight lbs. [kg]	536 [243]	536 [243]	536 [243]	536 [243]
Sp . roigin ioo. [rg]	500 [2 10]	555 [E 10]	555 [= 10]	555 [E 10]

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

Model RJPL - Series	C048CL	C048CM	C048DL	C048DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	50,000 [14.65]	50,000 [14.65]	50,000 [14.65]	50,000 [14.65]
EER, SEER ²	11.6/14	11.6/14	11.6/14	11.6/14
Nominal CFM/AHRI Rated CFM [L/s]	1600/1600 [755/755]	1600/1600 [755/755]	1600/1600 [755/755]	1600/1600 [755/755]
AHRI Net Cooling Capacity Btu [kW]	47,500 [13.92]	47,500 [13.92]	47,500 [13.92]	47,500 [13.92]
Net Sensible Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
Net Latent Capacity Btu [kW]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]
Net System Power kW	4.09	4.09	4.09	4.09
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
System Power KW / COP	3.76/3.8	3.76/3.8	3.76/3.8	3.76/3.8
Low Temp. Btuh [kW] Rating	29,800 [8.73]	29,800 [8.73]	29,800 [8.73]	29,800 [8.73]
System Power KW / COP	3.48/2.4	3.48/2.4	3.48/2.4	3.48/2.4
HSPF (Btu/Watts-hr)	8	8	8	8
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	3/4	1/2	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
Refrigerant Charge Oz. [g]	187 [5301]	187 [5301]	187 [5301]	187 [5301]
Weights				
Net Weight lbs. [kg]	535 [243]	535 [243]	535 [243]	535 [243]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	550 [249]
	200 [= .0]	[]	[]	[]

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

Model RJPL - Series	C060CL	C060CM	C060DL	C060DM
Cooling performance ¹				
Gross Cooling Capacity Btu [kW]	61,000 [17.87]	61,000 [17.87]	61,000 [17.87]	61,000 [17.87]
EER, SEER ²	11.7/14	11.7/14	11.7/14	11.7/14
Nominal CFM/AHRI Rated CFM [L/s]	2000/1850 [944/873]	2000/1850 [944/873]	2000/1850 [944/873]	2000/1850 [944/873]
AHRI Net Cooling Capacity Btu [kW]	59,500 [17.43]	59,500 [17.43]	59,500 [17.43]	59,500 [17.43]
Net Sensible Capacity Btu [kW]	43,600 [12.77]	43,600 [12.77]	43,600 [12.77]	43,600 [12.77]
Net Latent Capacity Btu [kW]	15,900 [4.66]	15,900 [4.66]	15,900 [4.66]	15,900 [4.66]
Net System Power kW	5.05	5.05	5.05	5.05
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	59,500 [17.43]	59,500 [17.43]	59,500 [17.43]	59,500 [17.43]
System Power KW / COP	4.8/3.6	4.8/3.6	4.8/3.6	4.8/3.6
Low Temp. Btuh [kW] Rating	36,400 [10.67]	36,400 [10.67]	36,400 [10.67]	36,400 [10.67]
System Power KW / COP	4.47/2.2	4.47/2.2	4.47/2.2	4.47/2.2
HSPF (Btu/Watts-hr)	8	8	8	8
*	8	8	8	8
Compressor	1/Caroll	1/Carall	1/Scroll	1/Caroll
No./Type	1/Scroll	1/Scroll		1/Scroll
Outdoor Sound Rating (dB) ⁵	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]	5.16 [0.48]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
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
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3/4	1	3/4	1
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]	(2)1x25x16 [25x635x406]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	565 [256]	565 [256]	565 [256]	565 [256]
Ship Weight lbs. [kg]	580 [263]	580 [263]	580 [263]	580 [263]

- 2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- 3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

^{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.

XXVI. MISCELLANEOUS

	I	ELECTR	ICAL DA	NTA – RJ	NL-C SE	ERIES			
		C036CL	C036CM	C036DL	C036DM	C042CL	C042CM	C042DL	C042DM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	187-253	414-506	414-506
ation	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Unit Information	Minimum Circuit Ampacity	18/18	19/19	10	10	22/22	22/22	10	11
Unit	Minimum Overcurrent Protection Device Size	20/20	25/25	15	15	25/25	30/30	15	15
	Maximum Overcurrent Protection Device Size	25/25	25/25	15	15	30/30	35/35	15	15
	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Compressor Motor	Phase	3	3	3	3	3	3	3	3
ressor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Compi	HP, Compressor 1	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3	3
	Amps (RLA), Comp. 1	10.4/10.4	10.4/10.4	5.8	5.8	13.5/13.5	13.5/13.5	6	6
	Amps (LRA), Comp. 1	88/88	88/88	38	38	88/88	88/88	44	44
	No.	1	1	1	1	1	1	1	1
tor	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Condenser Motor	Phase	1	1	1	1	1	1	1	1
ndens	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
S	Amps (FLA, each)	1.5/1.5	1.5/1.5	1	1	1.5/1.5	1.5/1.5	1	1
	Amps (LRA, each)	3/3	3/3	1.9	1.9	3/3	3/3	1.9	1.9
	No.	1	1	1	1	1	1	1	1
Ę	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3	3	3	3	3
/apore	HP	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4
Ш	Amps (FLA, each)	2.2/2.2	3.2/3.2	1.1	1.6	2.2/2.2	3.2/3.2	1.1	1.6
	Amps (LRA, each)	10.6/10.6	16.8/16.8	5.3	8.4	10.6/10.6	16.8/16.8	5.3	8.4

	- I	ELECTR	ICAL DA	TA – RJ	NL-C SE	ERIES			
		C048CL	C048CM	C048DL	C048DM	C060CL	C060CM	C060DL	C060DM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	187-253	414-506	414-506
ation	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Unit Information	Minimum Circuit Ampacity	22/22	23/23	11	11	26/26	26/26	13	14
Unit I	Minimum Overcurrent Protection Device Size	25/25	30/30	15	15	30/30	30/30	15	20
	Maximum Overcurrent Protection Device Size	35/35	35/35	15	15	40/40	40/40	20	20
	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Compressor Motor	Phase	3	3	3	3	3	3	3	3
ressor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Comp	HP, Compressor 1	3 1/2	3 1/2	3 1/2	3 1/2	5	5	5	5
_	Amps (RLA), Comp. 1	13.7/13.7	13.7/13.7	6.2	6.2	16/16	16/16	7.8	7.8
	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	41	41	110/110	110/110	52	52
	No.	1	1	1	1	1	1	1	1
tor	Volts	208/230	208/230	460	460	208/230	208/230	460	460
er Mo	Phase	1	1	1	1	1	1	1	1
Condenser Motor	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
ပိ	Amps (FLA, each)	1.5/1.5	1.5/1.5	1	1	1.5/1.5	1.5/1.5	1	1
	Amps (LRA, each)	3/3	3/3	1.9	1.9	4.7/4.7	4.7/4.7	2.4	2.4
	No.	1	1	1	1	1	1	1	1
u.	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3	3	3	3	3
vapora	HP	1/2	3/4	1/2	3/4	3/4	1	3/4	1
Ш	Amps (FLA, each)	2.2/2.2	3.2/3.2	1.1	1.6	3.2/3.2	3.8/3.8	1.6	1.9
	Amps (LRA, each)	10.6/10.6	16.8/16.8	5.3	8.4	16.8/16.8	24/24	8.4	12

	ELECTRICAL DA	TA – RJ	NL-C SE	RIES	
		C072CL	C072CM	C072DL	C072DM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
ation	Volts	208/230	208/230	460	460
Unit Information	Minimum Circuit Ampacity	34/34	34/34	17	17
Unit	Minimum Overcurrent Protection Device Size	40/40	40/40	20	20
	Maximum Overcurrent Protection Device Size	50/50	50/50	25	25
	No.	1	1	1	1
	Volts	208/230	208/230	460	460
Motor	Phase	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450
Compi	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	19/19	19/19	9.7	9.7
	Amps (LRA), Comp. 1	123/123	123/123	62	62
	No.	1	1	1	1
tor	Volts	208/230	208/230	460	460
er Mo	Phase	1	1	1	1
Condenser Motor	HP	1/3	1/3	1/3	1/3
ပိ	Amps (FLA, each)	1.8/1.8	1.8/1.8	1	1
	Amps (LRA, each)	3/3	3/3	2.2	2.2
	No.	1	1	1	1
C.	Volts	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3
/apore	HP	1 1/2	1 1/2	1 1/2	1 1/2
ш	Amps (FLA, each)	5.8/5.8	5.8/5.8	2.8	2.8
	Amps (LRA, each)	34/34	34/34	17	17

	I	ELECTR	ICAL DA	ATA – RJ	IPL-C SE	ERIES			
		C036CL	C036CM	C036DL	C036DM	C042CL	C042CM	C042DL	C042DM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	187-253	414-506	414-506
ation	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Unit Information	Minimum Circuit Ampacity	18/18	18/18	10	10	22/22	22/22	10	11
Unit	Minimum Overcurrent Protection Device Size	20/20	25/25	15	15	25/25	30/30	15	15
	Maximum Overcurrent Protection Device Size	25/25	25/25	15	15	30/30	35/35	15	15
	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Compressor Motor	Phase	3	3	3	3	3	3	3	3
ressor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Compi	HP, Compressor 1	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3	3
	Amps (RLA), Comp. 1	10.4/10.4	10.4/10.4	5.8	5.8	13.5/13.5	13.5/13.5	6	6
	Amps (LRA), Comp. 1	88/88	88/88	38	38	88/88	88/88	44	44
	No.	1	1	1	1	1	1	1	1
tor	Volts	208/230	208/230	460	460	208/230	208/230	460	460
er Mo	Phase	1	1	1	1	1	1	1	1
Condenser Motor	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
ပိ	Amps (FLA, each)	1.5/1.5	1.5/1.5	1	1	1.5/1.5	1.5/1.5	1	1
	Amps (LRA, each)	3/3	3/3	1.9	1.9	3/3	3/3	1.9	1.9
	No.	1	1	1	1	1	1	1	1
Ę	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3	3	3	3	3
vapore	HP	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4
<u>ш</u>	Amps (FLA, each)	2.8/2.8	3.4/3.4	1.4	1.6	2.8/2.8	3.4/3.4	1.4	1.6
	Amps (LRA, each)	10.6/10.6	16.8/16.8	5.3	8.4	10.6/10.6	16.8/16.8	5.3	8.4

	ŀ	ELECTR	ICAL DA	ATA – RJ	IPL-C SE	ERIES			
		C048CL	C048CM	C048DL	C048DM	C060CL	C060CM	C060DL	C060DM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	187-253	414-506	414-506
ation	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Unit Information	Minimum Circuit Ampacity	22/22	23/23	11	11	26/26	26/26	13	13
Unit I	Minimum Overcurrent Protection Device Size	25/25	30/30	15	15	30/30	30/30	15	15
	Maximum Overcurrent Protection Device Size	35/35	35/35	15	15	40/40	40/40	20	20
	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Motor	Phase	3	3	3	3	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Comp	HP, Compressor 1	3 1/2	3 1/2	3 1/2	3 1/2	5	5	5	5
	Amps (RLA), Comp. 1	13.7/13.7	13.7/13.7	6.2	6.2	16/16	16/16	7.8	7.8
	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	41	41	110/110	110/110	52	52
	No.	1	1	1	1	1	1	1	1
tor	Volts	208/230	208/230	460	460	208/230	208/230	460	460
er Mo	Phase	1	1	1	1	1	1	1	1
Condenser Motor	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
ပိ	Amps (FLA, each)	1.5/1.5	1.5/1.5	1	1	2.2/2.2	2.2/2.2	1	1
	Amps (LRA, each)	3/3	3/3	1.9	1.9	4.7/4.7	4.7/4.7	2.4	2.4
	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3	3	3	3	3
vapora	HP	1/2	3/4	1/2	3/4	3/4	1	3/4	1
Щ	Amps (FLA, each)	2.8/2.8	3.4/3.4	1.4	1.6	3.4/3.4	3.8/3.8	1.6	1.9
	Amps (LRA, each)	10.6/10.6	16.8/16.8	5.3	8.4	16.8/16.8	24/24	8.4	12

	E	ELECTR	ICAL DA	NTA – RJ	IPL-C SE	ERIES			
		C048CL	C048CM	C048DL	C048DM	C060CL	C060CM	C060DL	C060DM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	187-253	414-506	414-506
ation	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Unit Information	Minimum Circuit Ampacity	22/22	23/23	11	11	26/26	26/26	13	13
Unit	Minimum Overcurrent Protection Device Size	25/25	30/30	15	15	30/30	30/30	15	15
	Maximum Overcurrent Protection Device Size	35/35	35/35	15	15	40/40	40/40	20	20
	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Motol	Phase	3	3	3	3	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Compi	HP, Compressor 1	3 1/2	3 1/2	3 1/2	3 1/2	5	5	5	5
	Amps (RLA), Comp. 1	13.7/13.7	13.7/13.7	6.2	6.2	16/16	16/16	7.8	7.8
	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	41	41	110/110	110/110	52	52
	No.	1	1	1	1	1	1	1	1
tor	Volts	208/230	208/230	460	460	208/230	208/230	460	460
er Mo	Phase	1	1	1	1	1	1	1	1
Condenser Motor	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
ပိ	Amps (FLA, each)	1.5/1.5	1.5/1.5	1	1	2.2/2.2	2.2/2.2	1	1
	Amps (LRA, each)	3/3	3/3	1.9	1.9	4.7/4.7	4.7/4.7	2.4	2.4
	No.	1	1	1	1	1	1	1	1
LI LI	Volts	208/230	208/230	460	460	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3	3	3	3	3
/apora	HP	1/2	3/4	1/2	3/4	3/4	1	3/4	1
<u>Ш</u>	Amps (FLA, each)	2.8/2.8	3.4/3.4	1.4	1.6	3.4/3.4	3.8/3.8	1.6	1.9
	Amps (LRA, each)	10.6/10.6	16.8/16.8	5.3	8.4	16.8/16.8	24/24	8.4	12

3-3.5 TON

CAPACITY 3 & 3.5 TON HEAT PUMP (13 SEER) VOLTAGE 208-230, 460 - 3 PHASE EXTERNAL STATIC PRESSURE - INCHES OF WATER 0.1 [02] 0.2 [05] 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15] 0.7 [.17] 0.8 [.20] 0.9 [.22]	UMP (13 SEER) 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15]	UMP (13 SEER) 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15]	UMP (13 SEER) 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15]	0.4 [.10] 0.5 [.12] 0.6 [.15]	0.4 [.10] 0.5 [.12] 0.6 [.15]	0.5 [.12] 0.6 [.15]	.12] 0.6 [.15]	0.6 [.15]	6 [.15]		ERNAL STATIC PRESSURE - INCHE	TATIC PRESSURE - INCHE	RESSURE - INCHE	E - INCHE	m -	S OF WA		1.0 [.25]		1.1 [.27]	1.2	[30]	1.3	[.32]	1.1	1 [35]	1.5	[.37]
WATTS RPM	Т		WATTS	RPM	WATTS	RPM W	ST	RPM W	WATTS	•—	STT	RPM WA	WATTS		WATTS RF	RPM WATTS	_	RPM WATTS	TS RPM	M WATTS	윤	WATTS	RPM	WATTS	RPM	WATTS	윤	WATTS
ı		ı	ı	665	290	730	300	780	315	830 3	330 8	875 3	980	920 3	375 96	096 096		990 410	0 1040	0 445	1080	470	1140	510	1190	540	1235	290
ı		625	275	089	295	750	310	805	325 8	850 3	345 8	895 3	375 9	935 3	390 97	970 410		1015 435	2 1065	5 465	1100	200	1160	530	1210	260	1255	610
1		640	300	710	315	780	325	830	340 8	875 3	365 9	915 3	390	955 4	405 96	990 430		1040 450	0801 0	0 485	1115	540	1180	540	1230	009	1270	089
ı		029	315	735	330	800	345	850	365	890 3	385	935 4	410 9	975 4	430 10	1010 450	·	1060 475	2 1100	0 520	1145	260	1200	009	1250	630	1285	099
625 315		002	330	770	350	830	370	875	400	915 4	415 9	955 4	440 9	990 4	450 10	1040 495	_	1085 530	0 1125	5 565	1165	290	1220	645	1260	675	1305	710
655 340		730	365	795	385	850	400	890	430	935 4	445 9	975 4	470 10	1010 5	500 10	070 540		1110 575	5 1150	0 615	1195	645	1230	685	1280	725	1325	092
685 380		992	390	825	415	870	435	915	450	955 4	480 9	990 5	505 10	1040 5	545 10	060 280		1135 630	0 1180	099 0	1220	720	1255	740	1295	785	1350	820
730 420		062	435	850	455	068	490	935	505	970 5	525 10	2002	550 10	1075 6	605 11	1110 640	<u> </u>	1160 680	0 1200	0 730	1245	780	1280	800	1325	840	1365	885
755 465		825	475	875	202	915	535	955	920	985 5	570 10	1040	630 1.	1100 6	685 11	135 710	_	1185 750	0 1225	2 800	1265	830	1295	875	1350	910	I	Ι
200 200	0	058	230	890	220	935	220	975	009	1020	650 10	9 0801	.1 069	1125 9	940 11	165 770		1210 830	0 1245	2 870	1290	910	1310	930	1	ı	Ι	-

NOTE: Bold lines separate L, M and N drives respectively.

ADJUSTABLE 4.0 - 5.0 PITCH DIAMETER RPM RANGE 1090 - 1365 N (FIELD-SUPPLIED) 6.4 PITCH DIAMETER 922 ADJUSTABLE 3.4 - 4.4 PITCH DIAMETER 1295 1230 1185 1135 **1085** 1000 M 3/4 6.4 PITCH DIAMETER 0 625 ADJUSTABLE 2.4 - 3.4 PITCH DIAMETER 935 875 **830** 780 730 680 1/2 (3/4 - 575V) 6.9 PITCH DIAMETER MOTOR SHEAVE TURNS OPEN BLOWER SHEAVE DRIVE PACKAGE MOTOR H.P. RPM

Factory sheave settngs are shown in bold print.

4 TON

INDOOR AIRFLOW PERFORMANCE - RJPL/RJNL-C

			[35] 1.5 [.37]	WATTS RPM WATTS	650 1300 685	685 1315 740	745 1335 810	815 1350 865	890 1365 935	096	1030 – –	1	1
			1.4 [.3	RPM	1260	1270	1290	1315	1335	1350	1365	ı	ı
			[32]	WATTS	620	640	685	760	830	910	982	1060	1140
			1.3	RPM	1215	1235	1250	1270	1290	1315	1340	1355	1365
			[.30]	WATTS	280	009	640	700	770	845	930	1010	1100
			1.2	RPM	1170	1190	1205	1230	1250	1270	1295	1315	1340
			[.27]	WATTS	540	220	009	099	725	790	860	006	1050
			1.1	RPM	1115	1140	1160	1180	1205	1225	1250	1275	1300
			[.25]	WATTS	490	530	260	089	089	735	800	880	965
		~	1.0	RPM	1075	1100	1115	1140	1160	1180	1205	1225	1255
		JF WATE	[.22]	WATTS	460	490	520	280	635	695	740	835	900
		NCHES (0.9	RPM	1040	1060	1070	1100	1115	1140	1155	1185	1205
		SURE - I	0.8 [.20]	WATTS	440	470	200	260	290	645	710	790	865
		TIC PRES	9.0	RPM	1000	1010	1030	1055	1075	1090	1115	1145	1170
		EXTERNAL STATIC PRESSURE - INCHES OF WATER	0.7 [.17]	WATTS	420	455	470	200	565	009	099	750	810
		EXTERN	0.7	S RPM	945	975	995	1010	1035	1055	1080	1115	1130
			[15]	WATTS	400	435	455	480	530	570	625	069	260
			9.0	RPM	006	920	945	970	066	1015	1035	1060	1090
			0.5 [.12]	WATTS	390	415	435	465	200	530	009	640	715
			0.5	RPM	865	880	895	920	945	920	066	1015	1045
			0.4 [.10]	WATTS	375	395	420	450	480	200	222	009	665
			0.4	SRPM	810	835	855	875	895	920	945	970	1000
SEER)			0.3 [.07]	WATTS	340	365	395	425	460	485	540	280	089
UMP (13	HASE		0.5	S	745	770	795	820	850	870	895	925	950
CAPACITY 4 TON HEAT PUMP (13 SEER)	VOLTAGE 208-230, 460 - 3 PHASE		0.2 [.05]	WATTS	ı	330	350	330	430	465	515	260	610
4 TON	08-230, 4		0.5	SRPM	ı	695	725	750	780	810	840	870	006
PACITY	LTAGE 2		0.1 [.02]	WATTS	ı	ı	ı	360	390	430	475	520	585
L		_		RPM	1			069	720	750	780	820	850
	¥ i	2 5	2 2	<u> </u>	1200 [566]	1300 [614]	1400 [661]	1500 [708]	1600 [755]	1700 [802]	1800 [850]	1900 [897]	2000

NOTE: Bold lines separate L, M and N drives respectively.

DRIVE PACKAGE				_							≥				N (FIELD-SUPPLIED)
MOTOR H.P.			1/2 (;	1/2 (3/4 - 575V)	.5V)						3/4				3/4
BLOWER SHEAVE		9	6.9 PITCH DIAMETER	HDIA	WETER				9	.4 PITC	6.4 PITCH DIAMETER	METER			6.4 PITCH DIAMETER
MOTOR SHEAVE	AD	USTAE	ADJUSTABLE 2.8 - 3.8 PITCH DIAMETER	- 3.8 P	ITCHD	IAMETE	8	AD	USTAE	3LE 3.4	ADJUSTABLE 3.4 - 4.4 PITCH DIAMETER	TCHD	AMETE	H.	ADJUSTABLE 4.0 - 5.0 PITCH DIAMETER
TURNS OPEN	0	-	2	3	4	2	9	0	-	2	3	4	2	9	
RPM	066	945	895	820	800	750 695 1270 1225 1170 1115 1065 1015	695	1270	1225	1170	1115	1065	1015	962	RPM RANGE 1090 - 1365

Factory sheave settngs are shown in bold print.

INDOOR AIRFLOW PERFORMANCE - RJPL/RJNL-C

Math	CAPACITY5 TON - 13 SEER VOLTAGE 208-	SEER 208-	133	ER 208-230, 460 - 3 PHASE	PHASE																								
1.0 1.0											<u>س</u>	XTERNA	L STATIC	PRESSU	JRE-INCH	HES OF V	VATER												
RMATIS RPM WATTS RPM <t< th=""><th>0.2 [.05] 0.3 [.07]</th><th></th><th>0.3 [.07]</th><th>[70.</th><th></th><th>0.4</th><th>10]</th><th>0.5 [.</th><th>12]</th><th>0.6 [.1</th><th>[2]</th><th>0.7 [.1</th><th>[2]</th><th>0.8 [.</th><th>50]</th><th>7.] 6.0</th><th>[2]</th><th>1.0 [.2</th><th>[2]</th><th>1.10</th><th>1/2</th><th>1.20 [.3</th><th>[0]</th><th></th><th>32]</th><th></th><th>32</th><th></th><th>7]</th></t<>	0.2 [.05] 0.3 [.07]		0.3 [.07]	[70.		0.4	10]	0.5 [.	12]	0.6 [.1	[2]	0.7 [.1	[2]	0.8 [.	50]	7.] 6.0	[2]	1.0 [.2	[2]	1.10	1/2	1.20 [.3	[0]		32]		32		7]
815 826 426 930 460 970 480 1045 570 1156 675 1156 675 1156 675 126 675 126 675 126 700 1300 705 1300 985 1300 985 540 1045 586 1046 680 1145 680 1165 675 1265 750 1255 730 1265 730 730 1265 730 1265 730 1360 730 1360 730 1265 730 1265 730 1360 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1265 730 1275 730 1275 730 1275 730	WATTS RPM WATTS RPM WA-	RPM	\vdash	×	E	\vdash	WATTS		WATTS	5	_		_		_	-				\vdash		\vdash		\vdash		\vdash	_		ATTS
840 415 885 440 945 540 1045 580 1180 615 1180 670 1180 670 125 770 1255 770 1255 770 1255 770 1275 770	780	780			370	815	385	875	425	930	460	970	490	1030	540	1065	570	1105	595	1150	615	1195	645	1235	099	1300	·	340	745
897 470 915 610 660 105 640 1105 680 1145 765 1120 750 1225 750 1225 750 1225 750 1225 750 1225 750 1245 750 1340 860 1375 960 1120 750 1140 785 1140 1140 1140 1140	962 – –		795		405	840	415	895	440	945	200	995	540	1045	595	1080	615	1135	650	1165		1215	700	1255	735	1320		355	805
895 530 940 670 1035 640 1075 680 1120 725 1160 755 1160 756 1160 755 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1160 756 1260 950 1260 950 1360<	780 390 805		805		425	870	470	915	510	965	560	1015	009	1060		1105		1145	705	1180	730	1225		1275	290	1340	-	365	880
915 540 965 675 1070 1050 710 110 760 1170 780 1170 810 1170 780 1170 780 1170 780 1170 780 1170 780 1170 780 1170 850 1270	795 450 840		840	_	490	895	530	940	929	066	909	1035	640	1075		1120		1160	755	1200			815	1300	855	1355		375	940
945 640 986 675 105 175 1160 850 120 1245 156 1245 1160 850 1260	815 470 870		870		540	915	540	965	675	1010	099	1055	710	1100		1140		1175	810	1225	850	1260	. 088	1320	930	1365			1020
970 700 1015 730 1055 730 1056 730 1015 870 1126 950 1226 950 1250 950 1250 1050 1050 1130 1050 1170 950 1210 995 1250 1050 1170 950 1170 995 1250 1050 1170	850 530 895		895		290	945	640	995	675	1035	720	1070		1120		1160	850	1200	068	1245	915	1290	. 096	1335	1000	1375	,		1100
1005 760 1040 820 1050 880 1150 940 1155 980 1150 1150 1150 1150 1150 1150 1150 11	880 605 930		086		655	970	200	1015	730	1055	790	1105	830	1145		1180	910	1225	950	1260	086	1320	1035	1350	1075	1385	1120	1	1
1030 830 1060 880 1120 965 1150 1025 1180 1050 1252 1095 1275 1300 1210 1050 1275 1300	915 655 955		996		202	1005	209	1040	820	1090		1130		1170		1210	995	1250	1020	1290	1060	1335	1100		1150	1400	1200	_	ı
1065 910 1005 1150 1055 1150 1025 1180 1020 1125 1190 1175 1300 1210 1210 1210 1210 1210 1210 1210	945 735 995		966		780	1030	830	1060	880	1120	940	1155	086	1195		1240	1055	1275	1100		1140	1360	. 1180	1385	1225	ı)) -		<u>1</u>
1100 1005 1145 1055 1175 1260 1175 1300 1210 1340 1255 1370 1315 1400 1275 -<	975 795 1015		1015		830	1065	910	1100	965	1150	1025	1180	1050	1225	1095	1265	1125	1310	1175	1350	1230	1375	. 1260	1405	1320	ı	1	_	1
	1015 880 1040		1040		925	1100	1005	1145	1055	1175	1085		1140	1260		1300		1340	1255	1370	1315		1375	1	-	ı	1	-	1

NOTE: L-Drive left of bold line, M-Drive right of bold line.

0 1 1095 1040

Factory sheave settings are shown in bold.

INDOOR AIRFLOW PERFORMANCE - RJNL-C

		[.37]	8	1188	1277	1377	1486	1605	1733	1872	2020	ı	I	ı
		1.5[.	RPM	1287	1300	1315	1331	1348	1366	1386	1407	ı	ı	ı
		[32]	W	1130	1216	1312	1418	1533	1659	1794	1939	ı	ı	1
		1.4 [RPM	1252	1266	1282	1299	1317	1336	1357	1379	ı	ı	1
		.32]	W	1074	1157	1250	1352	1465	1587	1719	1861	2012	ı	ı
		1.3 [RPM	1217	1232	1249	1267	1286	1306	1328	1351	1375	ı	ı
		.30]	W	1021	1101	1190	1289	1398	1517	1646	1784	1933	ı	-
		1.2 [RPM	1181	1198	1215	1234	1254	1276	1298	1322	1347	ı	1
		.27]	W	971	1047	1133	1229	1334	1450	1575	1711	1856	2011	-
		1.1 [.27]	RPM	1146	1163	1181	1201	1222	1245	1268	1293	1319	1346	-
		[.25]	W	923	962	1078	1171	1273	1385	1508	1639	1781	1933	1
		1.0 [RPM	1110	1128	1147	1168	1190	1213	1238	1264	1291	1319	1
	r [kPa]	[.22]	W	877	947	1026	1115	1214	1323	1442	1571	1709	1858	2016
	External Static Pressure — Inches of Water	0.9	RPM	1073	1092	1113	1135	1158	1182	1207	1234	1262	1291	1322
	- Inche	.20]	W	834	006	926	1062	1158	1264	1379	1505	1640	1785	1940
	Pressure	0.8	RPM	1036	1057	1078	1101	1125	1150	1176	1204	1233	1263	1295
	al Static I	.17]	M	793	856	626	1012	1104	1207	1319	1441	1573	1715	1866
	Extern	0.7 [.17]	RPM	666	1020	1043	1066	1091	1118	1145	1174	1204	1235	1267
		[15]	Μ	755	815	885	964	1053	1152	1261	1380	1508	1647	1795
		9.0	RPM	362	984	1007	1032	1058	1085	1113	1143	1174	1206	1240
		0.5 [.12]	Μ	720	9//	842	919	1004	1100	1206	1321	1446	1582	1726
		0.5	RPM	924	947	971	266	1024	1052	1081	1112	1144	1177	1211
		0.4 [.10]	W	687	740	803	876	928	1051	1153	1265	1387	1519	1660
		0.4	RPM	886	910	935	962	066	1019	1049	1081	1114	1148	1183
		[.07]	Μ	929	902	992	835	914	1004	1103	1211	1330	1458	1597
	Phase	0.3	RPM	847	872	899	926	955	985	1016	1049	1083	1118	1154
	575 — 3	0.2 [.05]	۸	ı	ı	731	797	873	959	1055	1160	1276	1401	1536
-A072	230, 460,	0.2	RPM	I	ı	862	890	920	951	983	1017	1052	1088	1125
Model RJNL-A072	Voltage 208/230, 460, 575 — 3 Phase	0.1 [.02]	W	ı	1	ı	762	834	917	1009	1112	1224	1345	1477
Moc			RPM	1	1	-	3] 854	988	3] 917	036	7] 985	1020] 1057	1096
	Air Flow	CFM [L/s]		1900 [897]	2000 [944]	2100 [991]	2200 [1038]	2300 [1085]	2400 [1133]	2500 [1180]	2600 [1227]	2700 [1274]	2800 [1321]	2900 [1368]

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package				٦							Σ			
Motor H.P. [W]				[.5 [1118.5]	2					_	1.5 [1118.5]	100		
Blower Sheave				AK66							AK59			
Motor Sheave				1VP-44							1VP-50			
Turns Open	0	-	7	က	4	2	9	0	-	2	က	4	2	9
RPM	1103		1052 1002	926	006	849	-	1381	1326	1272	1220	1163	1108	-

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or above maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at ARI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

COMPONENT AIRFLOW RESISTANCE — 6 TON [21.1kW]

CFM [L/s]	1900 [897]	2000 [944]	2100 [991]	2200 [1038]	2300 [1085]	2400 [1133]	2500 [1180]	2600 [1227]	2700 [1274]	2800 [1321]	2900 1368]
				Resi	Resistance — Inches of Water	· Inches c	of Water [[kPa]			
Wet Coil	0.05	0.06	0.07	0.08	0.08	0.09	0.10 [.02]	0.10	0.11	0.11	0.12
Downflow	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10
Downflow Economizer RA Damper Open	0.08	0.08 [.02]	0.09	0.09	0.10 [.02]	0.10 [.02]	0.10 [.02]	0.11	0.11	0.12 [.03]	0.12
Horizontal Economizer RA Damper Open	0.08	0.08	0.09	0.09	0.10 [.02]	0.10 [.02]	0.10 [.02]	0.11	0.11	0.12 [.03]	0.12
Concentric Grill RXRN-FA65 or RXRN-FA75 & Transition RXMC-CC04	0.07	0.08	0.09	0.10	0.12 [.03]	0.13 [.03]	0.15 [.04]	0.17	0.19 [.05]	0.21	0.23

[] Designates Metric Conversions

AIRFLOW PERFORMANCE — 6 TON [21.1kW] — SIDEFLOW

	208-2	40 VOLT, T	208-240 VOLT, THREE PHASE, 60		AUXILIAR	Y ELECTRI	C HEATE	R KITS C	HARACTE	HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	ID APPLIC	ATION	
		Sing	Single Power Supply For Both Unit And Heater Kit	oly For Both U	nit And Heat	er Kit			Separate	ē	Supply For Both Unit And Heater Kit	Jnit And Hea	ıter Kit
			Heater Kit				Heat Pump		Heat	Heater Kit		Heat Pump	
Unit Model Number	RXJJ- Heater Kit	No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt Ampacity @	Over Current Protective Device Size	urrent Jevice Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity		Over Current Protective Device Size
RJNL-	Nominal kW		208/240 V			208-240V	Min/Max @ 208 V	Min/Max @240 V	208/240Ý	208/240V	208/240Ý	Min/Max @ 208 V	Min/Max @ 240 V
	No Heat				_	18/18	20/25	20/25			18/18	20/25	20/25
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	33/35	35/35	35/40	15/17	15/20		Ι	1
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30		1	-
109800	A11C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30		ı	ı
COSOCE	A12C	1	8.4/11.2	28.66/38.21	23.4/27	48/52	50/50	09/09	30/34	30/32		Ι	1
	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	56/62	09/09	02/02	38/44	40/45	I	ı	ı
'	A20C	-	14.4/19.2	49.13/65.5	40/46.3	92/89	02/02	80/80	50/58	20/60	I	I	ı
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	70/70	80/80	50/58	20/60	l	ı	_
	No Heat	ı	1		-	22/22	25/30	25/30		-	22/22	25/30	25/30
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	37/39	40/45	40/45	15/17	15/20	-	1	-
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	I	I	1
C049C1	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	1	1	1
10450	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	09/09	09/09	30/34	36/32	-	1	-
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	99/09	09/09	20/20	38/44	40/45	1	1	1
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/09	1	1	-
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/60	l	1	_
	No Heat	I	ı	1	I	22/22	25/35	25/35	1	l	22/22	25/35	25/35
	A06C	-	4.2/5.6	14.33/19.1	11.7/13.5	37/39	40/45	40/45	15/17	15/20		ı	1
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	ı	1	1
C048C1	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	1	ı	I
1	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	09/09	09/09	30/34	30/32	l	1	-
'	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	99/09	09/09	02/02	38/44	40/45	I	ı	ı
	A20C	-	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/60	I	I	ı
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/60	I	ı	_
	No Heat	1	1		-	26/26	30/40	30/40		-	26/26	30/40	30/40
'	A06C	-	4.2/5.6	14.33/19.1	11.7/13.5	41/43	45/50	45/50	15/17	15/20	I	ı	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	I	1
00800	A11C	1	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	ı	-
	A12C	1	8.4/11.2	28.66/38.21	23.4/27	26/60	60/50	70/70	30/34	30/35	l	1	-
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	64/70	02/02	08/08	38/44	40/45		1	1
	A20C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	20/28	20/09		1	1
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	20/09		Ι	Ι
	No Heat	1	-	-	_	34/34	40/20	40/20		-	34/34	40/20	40/20
100200	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	72/78	08/08	08/08	38/44	40/45		ı	ı
00/20L	A20C	-	14.4/19.2	49.13/65.5	40/46.3	84/92	06/06	100/100	50/58	20/09	I	ı	ı
	A24C	-	18/24	61.41/81.88	50/57.7	97/107	100/100	110/110	63/73	70/80	1		

	208-2	40 VOLT, T	208-240 VOLT, THREE PHASE, 60		AUXILIAR	HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	C HEATE	R KITS CI	HARACTE	RISTICS AN	ID APPLIC	ATION	
		Sing	Single Power Supply For Both Unit And Heater Kit	ly For Both U	Init And Heat	er Kit			Separat	Separate Power Supply For Both Unit And Heater Kit	ly For Both U	Init And Hea	ter Kit
			Heater Kit			Τ.	Heat Pump		Heat	Heater Kit		Heat Pump	
Unit Model Number	RXJJ- Heater Kit	No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt Ampacity @	Over Current Protective Device Size	Surrent Device Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over (Protective	Over Current Protective Device Size
RJNL-	Nominal kW	Steps	208/240 V	208/240 V		208-240V	Min/Max @ 208 V	Min/Max @240 V	208/240V	208/240V	208/240V	Min/Max @ 208 V	Min/Max @ 240 V
	No Heat		-			19/19	25/25	25/25		-	19/19	25/25	25/25
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	34/36	35/35	40/40	15/17	15/20	1	I	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	44/48	45/45	20/20	25/29	25/30	I	ı	ı
MUSCO	A11C	1	7.2/9.6	24.56/32.75	20/23.1	44/48	45/45	20/20	25/29	25/30	1	I	ı
NO SOCIM	A12C	1	8.4/11.2	28.66/38.21	23.4/27	49/53	50/50	09/09	30/34	30/35	1	I	ı
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	22/63	09/09	70/70	38/44	40/45	-	ı	ı
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	22/69	70/70	80/80	50/58	20/60	1	I	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	22/69	70/70	80/80	50/58	20/60	1	I	ı
	No Heat	1	1	1	1	22/22	30/32	30/35	1	_	22/22	30/32	30/32
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	37/39	40/45	40/45	15/17	15/20	1	Ι	1
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	-	I	ı
MUCVO	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	50/50	09/09	25/29	25/30	_	1	1
N 1	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	60/60	09/09	30/34	30/35	1	Ι	1
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	99/09	70/70	70/70	38/44	40/45	_	Ι	I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	20/60	1	ı	ı
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	50/60	Ι	ı	ı
	No Heat	1	Ι	1	1	23/23	30/35	30/32	1	_	23/23	30/32	30/32
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	38/40	40/45	40/45	15/17	15/20	_	Ι	1
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	48/52	50/50	09/09	25/29	25/30	_	Ι	I
COABCIM	A11C	1	7.2/9.6	24.56/32.75	20/23.1	48/52	20/20	09/09	25/29	25/30	_	I	I
V0400	A12C	1	8.4/11.2	28.66/38.21	23.4/27	53/57	09/09	09/09	30/34	30/35	1	I	ı
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	61/67	02/02	02/02	38/44	40/45	Ι	I	I
	A20C	-	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	50/58	20/60	I	I	ı
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	50/58	50/60	I	ı	I
	No Heat	1	1	1	1	26/26	30/40	30/40	1	_	56/26	30/40	30/40
	A06C	-	4.2/5.6	14.33/19.1	11.7/13.5	41/43	45/50	45/50	15/17	15/20	I	ı	I
	A10C	-	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	I	I
COGOCIM	A11C	-	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	I	ı
	A12C	1	8.4/11.2	28.66/38.21	23.4/27	26/60	60/50	70/70	30/34	30/35	I	I	I
	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	64/70	70/70	80/80	38/44	40/45	I	ı	ı
	A20C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	20/28	20/60	I	I	I
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	50/60	Ι	ı	ı
	No Heat	I	Ι	I	I	34/34	40/20	40/20	I	1	34/34	40/20	40/20
MO2200	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	72/78	80/80	80/80	38/44	40/45	I	I	ı
2 / 20	A20C	-	14.4/19.2	49.13/65.5	40/46.3	84/92	06/06	100/100	50/58	20/60	I	I	I
	A24C	-	18/24	61.41/81.88	50/57.7	97/107	100/100	110/110	63/73	70/80	ı	ı	1

Separate Power Supply For Both Un		480	VOLT, THI	480 VOLT, THREE PHASE, 60 HZ		JXILIARY I	, AUXILIARY ELECTRIC HEATER KITS	HEATER	KITS CHA	RACTERIS	CHARACTERISTICS AND APPLICATION	APPLICAT	TION	
PRATURE IN TRANSMERT			Sing	le Power Supp	ly For Both U	nit And Heat	er Kit			Separate	Power Supp	ly For Both U	Init And He	ater Kit
RXJJ. Nominal kW. Stepper No. of Interesting Sequences Range (Nominal kW.) Sequences Heater (Vit.) Sequences Heater (Vit.) Sequences Min. Max. Ann. Min. Ckt. Interesting Sequences Min. Ckt. Ann. Ann. Ann. Min. Ckt. Ann. Ann. Ann. Ann.				Heater Kit				leat Pump		Heat	er Kit	_	Heat Pump	
Nominal kW Steps 480 V	Unit Model Number						Unit Min. Ckt Ampacity @		Surrent Device Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over (Protective	Over Current Protective Device Size
No Heat — </th <th>RJNL-</th> <th></th> <th></th> <th></th> <th>480 V</th> <th></th> <th>480V</th> <th>l 1</th> <th>Min/Max @ 480 V</th> <th>480V ´</th> <th>480V</th> <th>480V ´</th> <th>Min/Max @ 480 V</th> <th>Min/Max @ 480 V</th>	RJNL-				480 V		480V	l 1	Min/Max @ 480 V	480V ´	480V	480V ´	Min/Max @ 480 V	Min/Max @ 480 V
AGEC 1 5.6 19.1 6.8 19 20.20 - 9 15 A10D 1 9.6 32.75 11.6 25 256.25 - 15 15 A11D 1 9.6 32.75 11.6 25 256.25 - 15 15 A12D 1 14.1 38.21 17.4 27 36.63 - 17 20 A21D 1 14.2 38.21 17.4 32 36.63 - 20 30 30 A21D 1 14.2 38.21 17.4 32.7 36.63 - 30 30 30 A21D 1 14.2 48.13 17.4 32.7 36.63 - 15 16 <td< th=""><th></th><th>No Heat</th><th>I</th><th>I</th><th>I</th><th>1</th><th>10</th><th>15/15</th><th>ı</th><th>I</th><th>I</th><th>10</th><th>15/15</th><th>ı</th></td<>		No Heat	I	I	I	1	10	15/15	ı	I	I	10	15/15	ı
A10D 1 9.6 32.75 11.6 25 25/25 - 15 15 A11D 1 9.6 32.75 11.6 25 25/25 - 15 15 A15D 1 11.2 38.21 13.5 27 30/30 - 17 20 A20D 1 19.2 65.5 23.3 40 40/40 - 22 25 A20D 1 19.2 65.5 23.3 40 40/40 - 30 30 A20D 1 19.2 65.5 23.3 40 40/40 - 9 15 A00D 1 19.2 65.5 23.3 40 40/40 - 9 16 A00D 1 19.6 82.75 11.6 25 25/25 - 15 16 16 16 16 16 16 16 16 16 16 16 16 <t< td=""><td></td><td>A06C</td><td>1</td><td>5.6</td><td>19.1</td><td>6.8</td><td>19</td><td>20/20</td><td>I</td><td>6</td><td>15</td><td>I</td><td>ı</td><td>I</td></t<>		A06C	1	5.6	19.1	6.8	19	20/20	I	6	15	I	ı	I
A11D 1 9 6 32.75 11 6 25 25/25 - 15 15 A12D 1 11 2 32.75 11,4 32.7 30.85 - 17 20 A5D 1 14.4 49.13 17.4 32 39.85 - 22 25 A2DD 1 19.2 65.5 23.3 40 40.40 - 30 30 No Heart - - - - - - 10 15/15 - - 22 25 A2DD 1 1 9.6 32.75 11.6 25 25/25 - 15 16		A10D	1	9.6	32.75	11.6	25	25/25	ı	15	15	ı	ı	ı
A12D 1 11.2 38.21 13.5 27 30/30 - 17 20 A2DO 1 11.4 49.13 11.4 49.13 11.4 40.40 - 22 25 A2DO 1 11.4 49.13 11.4 40.40 - 30 30 A2DO 1 11.2 65.5 23.2 40 40/40 - 30 30 A0DHeat -	וחפניט	A11D	1	9.6	32.75	11.6	25	25/25	ı	15	15	ı	Ι	ı
A15D 1 14.4 49.13 17.4 32 36/56 - 22 25 A21D 1 19.2 66.5 23.3 40 40/40 - 30 30 A21D 1 19.2 66.5 23.3 40 40/40 - 30 30 A6ED 1 19.2 66.5 23.3 40 40/40 - 30 30 A11D 1 5.6 32.75 11.6 25 26/25 - 15 15 15 A11D 1 9.6 32.75 11.6 25 26/26 - 15 15 15 15 A12D 1 14.4 48.13 13.5 27 30/30 - 17 20 A21D 1 14.4 48.13 17.4 32 30/30 - 17 20 A21D 1 14.4 48.13 17.4 32 30/30 <td>COSODE</td> <td>A12D</td> <td>1</td> <td>11.2</td> <td>38.21</td> <td>13.5</td> <td>27</td> <td>30/30</td> <td>I</td> <td>17</td> <td>20</td> <td>I</td> <td>I</td> <td>I</td>	COSODE	A12D	1	11.2	38.21	13.5	27	30/30	I	17	20	I	I	I
A2DD 1 192 66.5 23.3 40 4040 — 30 30 No Heat - <td></td> <td>A15D</td> <td>-</td> <td>14.4</td> <td>49.13</td> <td>17.4</td> <td>32</td> <td>35/35</td> <td>ı</td> <td>22</td> <td>25</td> <td>I</td> <td>ı</td> <td>ı</td>		A15D	-	14.4	49.13	17.4	32	35/35	ı	22	25	I	ı	ı
AZID 1 192 65.5 23.2 40 4040 — 30 30 No Heat — — — — — — — — — — A06D 1 5 9 32.75 11.6 25 25/25 — 9 15 15 A10D 1 9.6 32.75 11.6 25 25/25 — 15 15 A11D 1 9.6 32.75 11.6 25 25/25 — 15 15 A12D 1 14.4 49.13 17.4 32 25/25 — 15 20 A21D 1 19.2 66.5 23.3 40 40/40 — 30 30 A21D 1 19.2 66.5 23.3 40 40/40 — 30 30 A21D 1 19.2 66.5 23.3 40 40/40 —		A20D	-	19.2	65.5	23.3	40	40/40	I	30	30	I	I	ı
No Heat — 1 1 2 2 26 262 262 262 2		A21D	1	19.2	65.5	23.2	40	40/40	ı	30	30	Ι	ı	Ι
A0ED 1 56 1911 6.8 19 20020 — 9 15 A10D 1 5.6 11.6 25 25/25 — 15 15 A11D 1 32.75 11.6 25 25/25 — 15 15 A12D 1 11.2 38.21 13.5 27 30/30 — 17 20 A2DD 1 14.4 49.13 17.4 32 35/35 — 17 20 15 A2DD 1 19.2 65.5 23.3 40 40/40 — 17 20 16 A2DD 1 19.2 65.5 23.3 40 40/40 — 17 20 15 A2DD 1 16.2 23.3 40 40/40 — 17 20 15 A2DD 1 16.2 23.3 41 40/40 — 17 20		No Heat	I	1	1	-	10	15/15	1		1	10	15/15	1
A10D 1 96 32.75 116 25 25/25 - 15 15 15 A10D 1 96 32.75 11.6 25 25/25 - 15 15 15 A12D 1 1.2 38.21 13.5 27 30/30 - 17 20 A15D 1 14.4 49.13 17.4 32 38/35 - 17 20 A20D 1 19.2 65.5 23.3 40 40/40 - 30 30 A20D 1 19.2 65.5 23.2 40 40/40 - 30 30 A41D 1 19.2 65.5 23.2 40 40/40 - 30 30 A10D 1 19.2 65.5 23.2 40 40/40 - 30 30 A10D 1 19.2 65.5 23.2 41 40/40 -		A06D	1	5.6	19.1	6.8	19	20/20	-	6	15	1	1	1
A11D 1 9.6 32.75 11.6 25 25/52 — 15 15 A12D 1 11.2 38.21 13.5 27 30/30 — 17 20 A20D 1 14.4 49.13 13.5 23.3 40 40/40 — 25 25 25 A20D 1 19.2 66.5 23.2 40 40/40 — 30 30 30 NO Heat —		A10D	1	9.6	32.75	11.6	25	25/25	ı	15	15	ı	ı	ı
A12D 1 1.2 38.21 13.5 27 30/30 — 17 20 A15D 1 1.4 49.13 17.4 32 36/35 — 17 25 A21D 1 1.2 66.5 23.3 40 40/40 — 22 25 A21D 1 1 19.2 66.5 23.3 40 40/40 — 30 30 No Heat —	C042DI	A11D	1	9.6	32.75	11.6	25	25/25	-	15	15	Ι	1	1
A15D 1 144 49.13 17.4 32 36/35 - 22 25 A20D 1 19.2 65.5 23.3 40 40/40 - 22 25 A21D 1 19.2 65.5 23.3 40 40/40 - 30 30 ANOHeat - </td <td>102</td> <td>A12D</td> <td>-</td> <td>11.2</td> <td>38.21</td> <td>13.5</td> <td>27</td> <td>30/30</td> <td>ı</td> <td>17</td> <td>20</td> <td>I</td> <td>I</td> <td>ı</td>	102	A12D	-	11.2	38.21	13.5	27	30/30	ı	17	20	I	I	ı
A20D 1 192 65.5 23.3 40 4040 — 30 30 No Heat — </td <td></td> <td>A15D</td> <td>-</td> <td>14.4</td> <td>49.13</td> <td>17.4</td> <td>32</td> <td>35/35</td> <td>ı</td> <td>22</td> <td>25</td> <td>I</td> <td>I</td> <td>I</td>		A15D	-	14.4	49.13	17.4	32	35/35	ı	22	25	I	I	I
A21D 1 19.2 65.5 23.2 40 40/40 — 30 30 No Heat —		A20D	-	19.2	65.5	23.3	40	40/40	I	30	30	I	ı	ı
No Heat — 9 1 5 9 1 5 9 1 5 9 1 5 9 1 5 9 1 2 2 2 2 2 2 2 </td <td></td> <td>A21D</td> <td>-</td> <td>19.2</td> <td>65.5</td> <td>23.2</td> <td>40</td> <td>40/40</td> <td>-</td> <td>30</td> <td>30</td> <td>Ι</td> <td>ı</td> <td> </td>		A21D	-	19.2	65.5	23.2	40	40/40	-	30	30	Ι	ı	
A06D 1 5.6 19.1 6.8 20 20/20 — 9 15 <		No Heat	ı	ı	I	I	11	15/15	ı	ı	I	11	15/15	I
A10D 1 9.6 32.75 11.6 26 25/25 - 15 15 15 A11D 1 9.6 32.75 11.6 26 25/25 - 15 15 15 A12D 1 11.2 38.21 13.5 28 30/30 - 17 20 15 <		A06D	1	5.6	19.1	6.8	20	20/20	ı	6	15	ı	ı	I
A11D 1 9.6 32.75 11.6 26 25/25 - 15 15 A12D 1 11.2 38.21 13.5 28 30/30 - 17 20 A15D 1 14.4 49.13 17.4 33 36/35 - 17 20 A20D 1 19.2 65.5 23.3 41 40/40 - 30 30 A21D 1 19.2 65.5 23.3 41 40/40 - 30 30 A00Heat -		A10D	1	9.6	32.75	11.6	26	25/25	-	15	15	_	1	I
A12D 11.2 38.21 13.5 28 30/30 - 17 20 A15D 1 14.4 49.13 17.4 33 35/35 - 22 25 25 A20D 1 19.2 65.5 23.3 41 40/40 - 30 30 30 A21D 1 19.2 65.5 23.3 41 40/40 - 30	COABDI	A11D	1	9.6	32.75	11.6	26	25/25	ı	15	15	Ι	Ι	I
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No Heat — </td <td></td> <td>A21D</td> <td>-</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>41</td> <td>40/40</td> <td>I</td> <td>30</td> <td>30</td> <td>I</td> <td>ı</td> <td>1</td>		A21D	-	19.2	65.5	23.3	41	40/40	I	30	30	I	ı	1
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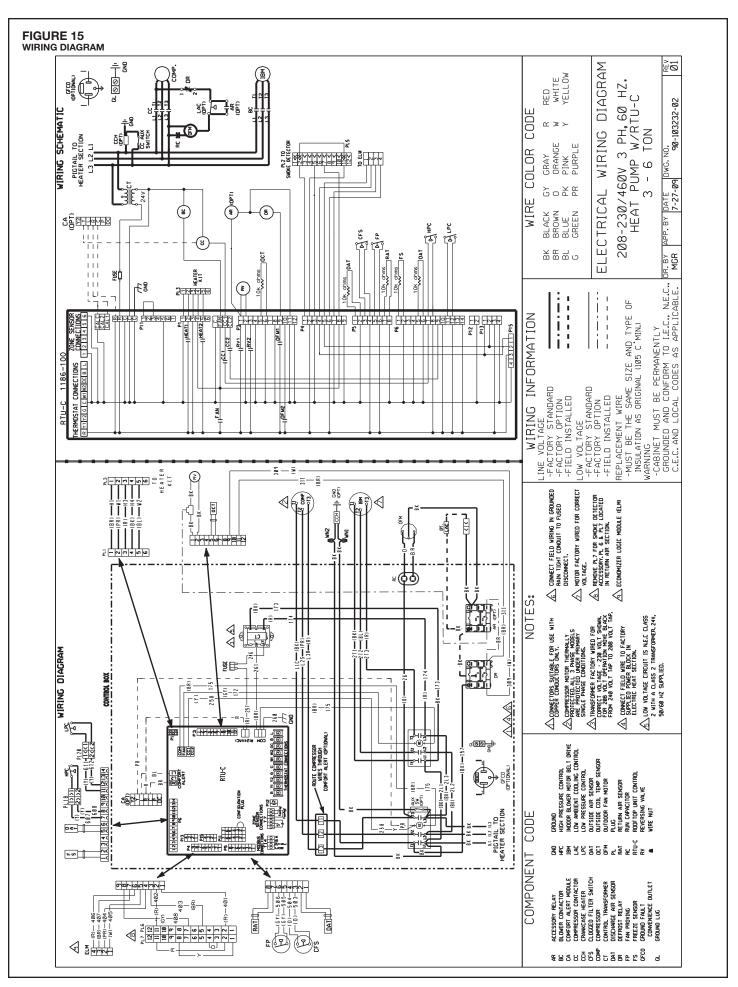
March Marc		480	VOLT, THE	480 VOLT, THREE PHASE,	60 HZ,	JXILIARY	AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS	HEATER	KITS CHA	RACTERIS		AND APPLICATION	NOI	
Heater Kit			Singl	le Power Supp	ly For Both L	Init And Heat	er Kit		П	Separate	Power Suppl	y For Both U	Init And Hea	ter Kit
RXJJI- Febralis (No. of Normalis (M.) Steps No. of ABAVALIA (M.) Steps Randel Healing ARVALIA (M.) Steps Healing ABAVALIA (M.) ABAVALIA (M				Heater Kit			_	leat Pump		Heat	er Kit		Heat Pump	
Nominal kW Sieps 480 V	Unit Model Number				Heater KBTU/Hr @		Unit Min. Ckt Ampacity @		urrent Jevice Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity		Over Current Protective Device Size
NP-Heat — </th <th>RJNL-</th> <th></th> <th></th> <th></th> <th>480 V</th> <th></th> <th>480V</th> <th></th> <th>Min/Max @ 480 V</th> <th>480V</th> <th>480V</th> <th>480V</th> <th>Min/Max @ 480 V</th> <th>Min/Max @ 480 V</th>	RJNL-				480 V		480V		Min/Max @ 480 V	480V	480V	480V	Min/Max @ 480 V	Min/Max @ 480 V
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No Heat — 1 </td <td></td> <td>A21D</td> <td>1</td> <td>19.2</td> <td>65.5</td> <td>23.2</td> <td>40</td> <td>40/40</td> <td>ı</td> <td>30</td> <td>30</td> <td>1</td> <td>ı</td> <td>I</td>		A21D	1	19.2	65.5	23.2	40	40/40	ı	30	30	1	ı	I
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A06D 1 5.6 19.1 6.8 23 25/25 - 9 15 - A10D 1 9.6 32.75 11.6 29 30/30 - 15 15 - A11D 1 9.6 32.75 11.6 29 30/30 - 15 15 - A12D 1 11.2 38.21 13.5 31 36/35 - 17 20 -		No Heat	Ι	1	I	I	14	20/20	I	I	I	14	20/20	I
A10D 1 9.6 32.75 11.6 29 30/30 — 15 15 — A11D 1 9.6 32.75 11.6 29 30/30 — 15 15 — A12D 1 11.2 38.21 13.5 31 35/35 — 17 20 — — A21D 1 14.4 49.13 17.4 36 40/40 — 22 25 —		A06D	-	5.6	19.1	6.8	23	25/25	ı	6	15	1	ı	I
A11D 1 9.6 32.75 11.6 29 30/30 — 15 15 — A12D 1 11.2 38.21 13.5 31 35/35 — 17 20 — A15D 1 14.4 49.13 17.4 36 40/40 — 22 25 — A20D 1 19.2 65.5 23.3 44 45/45 — 30 30 — No Heat — — — — — 30 30 — 1 A15D — — — — — 17 20/25 — — 17 A25D 1 14.4 49.13 17.4 39 40/40 — 22 25 — — A25D 1 14.4 49.13 17.4 39 40/40 — 22 25 — 17 A20D 1 19.		A10D	-	9.6	32.75	11.6	29	30/30	I	15	15	ı	I	I
A12D 1 11.2 38.21 13.5 31 35/35 - 17 20 - A15D 1 14.4 49.13 17.4 36 40/40 - 22 25 - A20D 1 19.2 65.5 23.3 44 45/45 - 30 30 - No Heat - - - - - - 30 30 - - A15D 1 14.4 49.13 17.4 39 40/40 - 22 25 - - A20D 1 14.4 49.13 17.4 39 40/40 - 22 25 - 17 A20D 1 19.2 65.5 23.3 47 50/50 - 30 30 - A20D 1 22 25 25 25 - - A20D 1 24 81.88	COGODM		-	9.6	32.75	11.6	29	30/30	ı	15	15	I	ı	I
A15D 1 14.4 49.13 17.4 36 40/40 - 22 25 - - A20D 1 19.2 65.5 23.3 44 45/45 - 30 30 - - No Heat - - - - 17 20/25 - - 17 - 17 A15D 1 14.4 49.13 17.4 39 40/40 - 22 25 - - A20D 1 19.2 65.5 23.3 47 50/50 - 30 30 - - A20D 1 19.2 65.5 23.3 47 50/50 - 30 30 - - A24D 1 24 81.88 28.9 54 60/60 - 37 40 - -			-	11.2	38.21	13.5	31	32/32	I	17	20	ı	I	I
A20D 1 19.2 65.5 23.3 44 45/45 - 30 30 - A21D 1 19.2 65.5 23.2 44 45/45 - 30 30 - No Heat - - - - - 7 - - 17 A15D 1 14.4 49.13 17.4 39 40/40 - 22 25 - 17 A20D 1 19.2 65.5 23.3 47 50/50 - 30 30 - A24D 1 24 81.88 28.9 54 60/60 - 37 40 -		A15D	-	14.4	49.13	17.4	36	40/40	ı	22	25	ı	I	I
A21D 1 19.2 65.5 23.2 44 45/45 - 30 30 - No Heat - - - - - - - 17 20/25 - - 17 17 A15D 1 14.4 49.13 17.4 39 40/40 - 22 25 - 1 A20D 1 19.2 65.5 23.3 47 50/50 - 30 30 - A24D 1 24 81.88 28.9 54 60/60 - 37 40 -		A20D	-	19.2	65.5	23.3	44	45/45	ı	30	30	I	I	I
No Heat — — — — — — — — — — — — — 17 17 20/25 — — 17 17		A21D	-	19.2	65.5	23.2	44	45/45	1	30	30	1	1	I
A15D 1 14.4 49.13 17.4 39 40/40 - 22 25 A20D 1 19.2 65.5 23.3 47 50/50 - 30 30 A24D 1 24 81.88 28.9 54 60/60 - 37 40		No Heat	Ι	I	1	1	17	20/25	I	I	I	17	20/25	I
A20D 1 19.2 65.5 23.3 47 50/50 — 30 30 A24D 1 24 81.88 28.9 54 60/60 — 37 40	COZODM	A15D	-	14.4	49.13	17.4	39	40/40	ı	22	25	1	ı	I
1 24 81.88 28.9 54 60/60 — 37		A20D	-	19.2	65.5	23.3	47	20/20	I	30	30	I	I	I
		A24D	-	24	81.88	28.9	54	09/09	I	37	40	I	ı	I

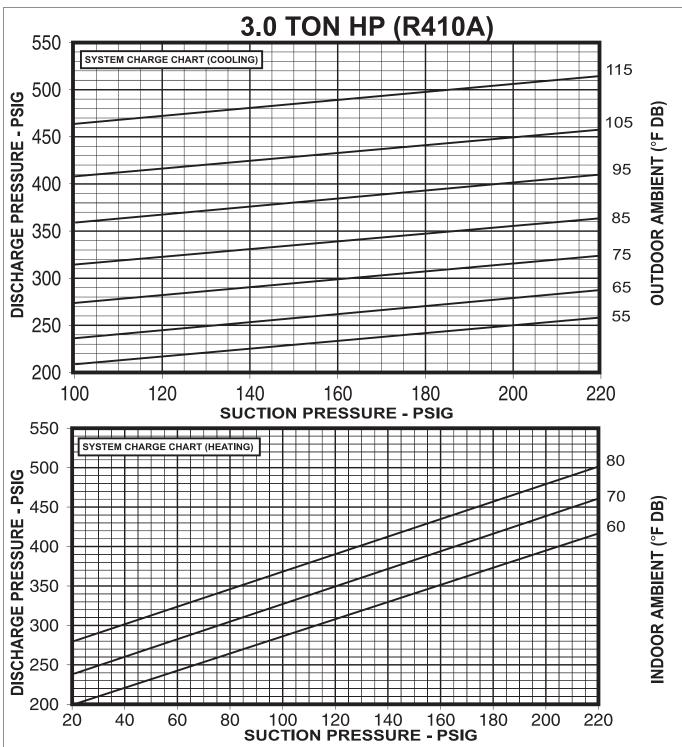
	208/5	40 VOLT, T	208/240 VOLT, THREE PHASE,	9	AUXILIAR	Y ELECTR	IC HEATE	R KITS C	HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	RISTICS AN	ID APPLIC	ATION	
		Sing	Single Power Supply For B	oly For Both U	oth Unit And Heater Kit	er Kit			Separate	Separate Power Supply For Both Unit And Heater Kit	ly For Both U	Init And Hea	ter Kit
			Heater Kit				Heat Pump		Heat	Heater Kit		Heat Pump	
Unit Model Number	RXJJ- Heater Kit	No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt Ampacity @		Over Current Protective Device Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over Current Protective Device Size	Over Current ective Device Size
RJPL-	Nominal kW		208/240 V	208/240 V		208/240V	Min/Max @ 208 V	Min/Max @ 240 V	208/240Ý	208/240V	208/240Ý	Min/Max @280 V	Min/Max @ 240 V
	No Heat			1		18/18	20/25	20/25			18/18	20/25	20/25
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	33/35	35/35	40/40	15/17	15/20		1	1
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30		1	ı
Jacob	A11C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30	1	1	1
CUSSOL	A12C	1	8.4/11.2	28.66/38.21	23.4/27	48/52	20/20	09/09	30/34	36/08	1	1	1
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	29/92	09/09	02/02	38/44	40/45	1		I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	02/02	80/80	20/28	09/09	1	1	1
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	70/70	80/80	20/28	20/60	I	1	1
	No Heat	_	1	1	-	22/22	25/30	25/30	1	1	22/22	25/30	25/30
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	32/39	40/45	40/45	15/17	15/20	1	1	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	1	1	1
C049C1	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	1	1	1
102	A12C	1	8.4/11.2	28.66/.38.21	23.4/27	52/56	09/09	09/09	30/34	30/35	I	I	I
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	99/09	09/09	70/70	38/44	40/45	I	ı	I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	08/08	06/06	89/09	09/09	I	1	ı
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	20/28	20/09	ı	ı	Ι
	No Heat		ı	I	1	22/22	25/35	25/35	1	1	22/22	25/35	25/35
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	37/39	40/45	40/45	15/17	15/20	ı	ı	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	I	I	I
C048CI	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	I	ı	I
1	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	09/09	09/09	30/34	30/35	I	ı	ı
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	99/09	70/70	70/70	38/44	40/45	I	ı	ı
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	20/28	20/60	I	ı	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	20/60	1	-	_
	No Heat	-	1	ı	1	26/26	30/40	30/40	1	-	26/26	30/40	30/40
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	41/43	45/50	45/50	15/17	15/20	I	1	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	1	I
10000	A11C	1	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	1	1	1
	A12C	1	8.4/11.2	28.66/38.21	23.4/27	26/60	09/09	70/70	30/34	30/35	ı	1	ı
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	64/70	20/20	80/80	38/44	40/45		1	ı
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	89/09	09/09	I	1	Ι
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	90/90	50/58	20/60	ı	1	ı

	208/2	40 VOLT, 1	208/240 VOLT, THREE PHASE, 60		AUXILIAR	HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	CHEATE	R KITS CI	HARACTEF	SISTICS AN	D APPLIC	ATION	
		Sing	Single Power Supply For Both Unit And Heater Kit		Init And Heat	er Kit			Separate	Separate Power Supply For Both Unit And Heater Kit	y For Both U	nit And Heat	er Kit
			Heater Kit				Heat Pump		Heat	Heater Kit		Heat Pump	
Unit Model Number	RXJJ- Heater Kit	No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt Ampacity @	Over Current Protective Device Size	Surrent Device Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over Current Protective Device Size	urrent evice Size
RJPL-	Nominal kW	Steps	208/240 V	208/240 V	208/240 V	208/24ÓV	Min/Max @ 208 V	Min/Max @ 240 V	208/240V	208/240V	208/240V	Min/Max @280 V	Min/Max @ 240 V
	No Heat		1		1	18/18	25/25	25/25	ı		18/18	25/25	25/25
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	33/35	35/35	40/40	15/17	15/20		ı	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30	1	ı	ı
10000	A11C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30		ı	ı
COSOCIAL	A12C	1	8.4/11.2	28.66/38.21	23.4/27	48/52	20/20	09/09	30/34	30/35		ı	ı
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	29/92	09/09	70/70	38/44	40/45		ı	ı
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	20/02	08/08	20/28	20/60	-	1	ı
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	70/70	08/08	20/28	20/60		1	ı
	No Heat		1	1	1	22/22	30/35	30/35	ı		22/22	30/32	30/35
	A06C	-	4.2/5.6	14.33/19.1	11.7/13.5	37/39	40/45	40/45	15/17	15/20		ı	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30		ı	ı
MUCVO	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	_	1	ı
	A12C	1	8.4/11.2	28.66/.38.21	23.4/27	52/56	09/09	09/09	30/34	30/35	1	1	I
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	99/09	09/09	70/70	38/44	40/45	1	ı	ı
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	20/60	1	1	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	20/60	1	I	I
	No Heat	l	1	1	1	23/23	30/35	30/35	I	l	23/23	30/32	30/35
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	38/40	40/45	45/45	15/17	15/20		ı	ı
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	48/52	20/20	09/09	25/29	25/30		ı	I
C048CM	A11C	-	7.2/9.6	24.56/32.75	20/23.1	48/52	50/50	09/09	25/29	25/30	ı	ı	ı
)	A12C	-	8.4/11.2	28.66/38.21	23.4/27	53/57	09/09	09/09	30/34	30/35	I	ı	ı
	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	61/67	70/70	70/70	38/44	40/45	I	ı	ı
'	A20C	-	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	20/28	20/60	I	ı	ı
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	20/28	20/60	I	1	I
	No Heat	1	1	1	1	26/26	30/40	30/40	1	-	26/26	30/40	30/40
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	41/43	45/50	45/50	15/17	15/20	1	1	I
	A10C	-	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	ı	ı
MOORO	A11C	-	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	ı	ı	ı
	A12C	-	8.4/11.2	28.66/38.21	23.4/27	26/60	09/09	02/02	30/34	30/35	ı	ı	ı
'	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	64/70	70/70	80/80	38/44	40/45	I	ı	ı
'	A20C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	20/28	20/60	ı	1	ı
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	20/28	20/60			I

PKAU-		480	VOLT. THE	480 VOLT. THREE PHASE. 60 HZ		IXILIARY	ELECTRIC	HEATER	KITS CHA	RACTERIS	TICS AND	APPLICAT	NOI.	
FKJU-			Singl	le Power Supp	, -	nit And Heat	er Kit			Separate	Power Supp	ly For Both U	nit And Hea	ter Kit
FXLU- Nominal kW No. of Stage Rate of Health (Sequence ASD (Septe) Health (Health (H				Heater Kit			_	leat Pump		Heat	er Kit		Heat Pump	
Nominal kW Sieps 480 V	Unit Model lumber			Rated Heater kW @	Heater KBTU/Hr	Heater Amp. @	Unit Min. Ckt Ampacity @		urrent Jevice Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over Current Protective Device Size	Over Current active Device Size
No Heat — </th <th>RJPL-</th> <th></th> <th></th> <th>480 V</th> <th>480 V</th> <th>480 V</th> <th>480V</th> <th></th> <th>Min/Max @ 480 V</th> <th>480V</th> <th>480V</th> <th>480V</th> <th>Min/Max @480 V</th> <th>Min/Max @ 480 V</th>	RJPL-			480 V	480 V	480 V	480V		Min/Max @ 480 V	480V	480V	480V	Min/Max @480 V	Min/Max @ 480 V
Anobo 1 6.6 19.1 6.8 19.9 20/20 — 9 15 — A10D 1 9.6 32.75 11.6 255 25/52 — 15 15 — A11D 1 11.2 38.75 11.6 25 25/52 — 15 15 — A15D 1 11.2 38.21 11.6 25 25/52 — 17 15 15 — — 17 16 25 25/52 — 17 20 — 17 16 25 25/52 — 17 20 — 17 17 20 20 — 17 17 20 20 — 17 17 17 18 18 18 20 20 20 — 19 — 17 18 18 — 10 10 10 10 10 10 10 10 11		No Heat		ı			10	15/15	ı	ı	1	10	15/15	-
A10D 1 96 32.75 116 25 25.65 - 15 15 - A11D 11 36.275 116 25 25.65 - 17 20 - A15D 11 38.21 13.5 27 30.30 - 17 20 - A20D 1 14.4 49.13 17.4 32 36.65 - 17 20 - - - - - - - - - - 10 30.9 -		A06D	1	5.6	19.1	6.8	19	20/20	ı	6	15	I	I	-
A1D 1 96 32.75 116 25 25/25 - 15 16 -		A10D	1	9.6	32.75	11.6	25	25/25	I	15	15	ı	I	ı
A12D 1 11.2 38.21 13.5 27 30.30 — 17 20 — A2DD 1 1 14.4 49.13 17.4 32 36/35 — 17 20 0 </td <td>וחפטער</td> <td>A11D</td> <td>1</td> <td>9.6</td> <td>32.75</td> <td>11.6</td> <td>25</td> <td>25/25</td> <td>Ι</td> <td>15</td> <td>15</td> <td>ı</td> <td>I</td> <td>1</td>	וחפטער	A11D	1	9.6	32.75	11.6	25	25/25	Ι	15	15	ı	I	1
A15D 1 144 4913 174 32 36.35 — 22 25 — A20D 1 192 66.55 23.3 40 4040 — 20 20 — A21D 1 192 66.55 23.3 40 4040 — 30 30 — A21D 1 192 66.5 23.3 40 4040 — 9 10 10 A00D 1 9.6 32.75 11.6 25 25/25 — 15 15 — A12D 1 9.6 32.75 11.6 25 25/25 — 15 15 — 10 <td>JOSODE</td> <td>A12D</td> <td>1</td> <td>11.2</td> <td>38.21</td> <td>13.5</td> <td>27</td> <td>30/30</td> <td>1</td> <td>17</td> <td>20</td> <td> </td> <td>I</td> <td>-</td>	JOSODE	A12D	1	11.2	38.21	13.5	27	30/30	1	17	20		I	-
A20D 1 192 665 233 40 4040 — 30 30 — MeHeID 1 192 665 23.3 40 4040 — 30 30 — MoHeID 1 192 66.5 23.3 40 4040 — 90 30 — — 10 10 4040 — 30 30 — 90 — 10 10 4040 — 90 15 — — 10 10 4040 — 90 15 — 10		A15D	1	14.4	49.13	17.4	32	35/35	I	22	25	ı	I	ı
AZID 19 65.5 23.3 40 4040 — 30 30 — Nobelat —		A20D	1	19.2	65.5	23.3	40	40/40	Ι	30	30	ı	I	1
No Heat — </td <td></td> <td>A21D</td> <td>1</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>40</td> <td>40/40</td> <td>I</td> <td>30</td> <td>30</td> <td> </td> <td>I</td> <td>1</td>		A21D	1	19.2	65.5	23.3	40	40/40	I	30	30		I	1
A06D 1 5.6 19.1 6.8 19 20/20 — 9 15 — A10D 1 5.6 32.75 11.6 25 25/25 — 15 15 — A12D 1 38.27 11.6 25 25/25 — 15 15 — A12D 1 11.2 38.21 17.4 20 27.5 — 17 20 — A12D 1 11.2 38.21 17.4 32.3 40 40.40 — 17 20 — A2DD 1 11.2 38.21 17.4 32 35.35 — 30 30 — — 20 A2DD 1 19.2 65.5 23.3 40 40.40 — 30 9 — 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		No Heat		1	1		10	15/15	1	1	1	10	15/15	-
A10D 1 9.6 32.75 11.6 25 25/25 - 15 15 - A11D 1 9.6 32.75 11.6 25 25/25 - 15 15 - A12D 1 11.2 38.21 11.6 25 25/25 - 17 20 - A15D 1 14.4 49.13 17.4 32.3 40 40/40 - 17 20 - <td></td> <td>A06D</td> <td>1</td> <td>5.6</td> <td>19.1</td> <td>6.8</td> <td>19</td> <td>20/20</td> <td>1</td> <td>6</td> <td>15</td> <td>ı</td> <td>I</td> <td>-</td>		A06D	1	5.6	19.1	6.8	19	20/20	1	6	15	ı	I	-
A11D 1 96 32.75 11.6 25 25/25 - 15 15 - A12D 1 11.2 38.21 13.5 27 30.30 - 17 20 - A2DD 1 14.4 49.13 17.4 32 36.35 - 22 25 - A2DD 1 19.2 65.5 23.3 40 40/40 - 30 30 - A2DD 1 19.2 65.5 23.3 40 40/40 - 30 30 - A2DD 1 19.2 65.5 23.3 40 40/40 - 30 30 -		A10D	1	9.6	32.75	11.6	25	25/25	I	15	15	I	I	Ι
A12D 11 38.21 13.5 27 30/30 17 20 A15D 11 14.4 49.13 17.4 32 36/35 17 20 A20D 1 14.4 49.13 17.4 32 36/35 22 25 A20D 1 19.2 65.5 23.3 40 40/40 30 30 11 A0D 1 19.2 65.5 23.3 40 40/40 30 30 11	104201	A11D	-	9.6	32.75	11.6	25	25/25	I	15	15	I	I	Ι
A15D 1 14.4 49.13 17.4 32 35/35 — 22 25 — A20D 1 19.2 65.5 23.3 40 40/40 — 30 30 — A21D 1 19.2 66.5 23.3 40 40/40 — 30 30 — No Heat —<	1	A12D	-	11.2	38.21	13.5	27	30/30	I	17	20	I	I	I
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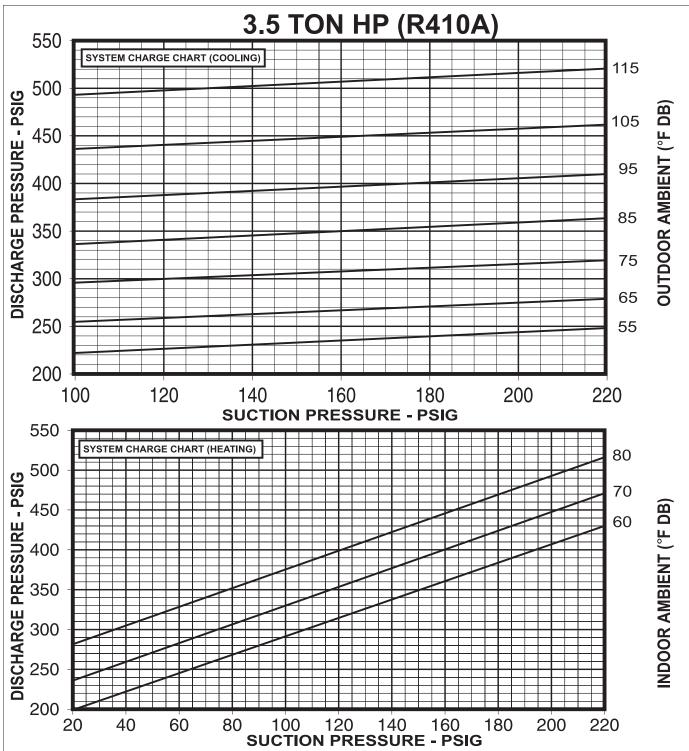
	480	VOLT. THI	480 VOLT. THREE PHASE. 60 H	. 60 HZ. AL	IXILIARY	Z. AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	HEATER !	(ITS CHA	RACTERIS	TICS AND	APPLICAT	NOL	
		Sing	Single Power Supply For	ly For Both U	Both Unit And Heater Kit	er Kit			Separate	Separate Power Supply For Both Unit And Heater Kit	y For Both U	nit And Hea	er Kit
			Heater Kit			Τ.	Heat Pump		Heat	Heater Kit		Heat Pump	
Unit Model Number	RXJJ- Heater Kit	No. of Sequence	Rated Heater kW @	Heater KBTU/Hr @	Heater Amp. @	Unit Min. Ckt Ampacity @	Over Current Protective Device Size	urrent evice Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over Current Protective Device Size	urrent evice Size
RJPL-	Nominal kW	Steps	480 V	480 V	480 V	480V	Min/Max @ 480 V	Min/Max @ 480 V	480V	480V	480V	Min/Max @480 V	Min/Max @ 480 V
	No Heat	ı	1	1	1	10	15/15	-	ı		10	15/15	ı
	A06D	-	5.6	19.1	6.8	19	20/20	ı	6	15	I	ı	ı
	A10D	1	9.6	32.75	11.6	25	25/25	ı	15	15	1	1	ı
MUSCOO	A11D	1	9.6	32.75	11.6	25	25/25	Ι	15	15	1	1	1
MID0500	A12D	1	11.2	38.21	13.5	27	30/30	ı	17	20	1	ı	ı
	A15D	-	14.4	49.13	17.4	32	35/35	ı	22	25	I	ı	ı
	A20D	-	19.2	65.5	23.3	40	40/40	ı	30	30	I	ı	ı
	A21D	1	19.2	65.5	23.2	40	40/40	I	30	30	_	-	I
	No Heat	ı	ı	1	I	11	15/15	-	ı	ı	11	15/15	1
	Q90Y	-	5.6	19.1	6.8	20	20/20	ı	6	15	Ι	ı	ı
	A10D	1	9.6	32.75	11.6	26	30/30	ı	15	15	ı	1	ı
MUCAOO	A11D	1	9.6	32.75	11.6	56	30/30	I	15	15	_	1	ı
2400	A12D	1	11.2	38.21	13.5	28	30/30	Ι	17	20	-	1	I
	A15D	1	14.4	49.13	17.4	33	35/35	ı	22	25	ı	1	ı
	A20D	-	19.2	65.5	23.3	41	40/40	I	30	30	I	I	ı
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	No Heat	-	-	1		11	15/15	-	_	-	11	15/15	-
	Q90Y	1	5.6	19.1	6.8	20	20/20	Ι	6	15	_	-	I
	A10D	-	9.6	32.75	11.6	26	30/30	I	15	15	I	I	I
COARDM	A11D	-	9.6	32.75	11.6	26	30/30	I	15	15	I	ı	ı
	A12D	-	11.2	38.21	13.5	28	30/30	ı	17	20	I	ı	ı
	A15D	-	14.4	49.13	17.4	33	35/35	I	22	25	ı	I	ı
	A20D	-	19.2	65.5	23.3	41	45/45	I	30	30	I	ı	ı
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	A10D	-	9.6	32.75	11.6	28	30/30	I	15	15	I	I	I
COBOD	A11D	-	9.6	32.75	11.6	28	30/30	1	15	15	I	I	ı
	A12D	-	11.2	38.21	13.5	30	35/35	I	17	20	I	I	ı
	A15D	-	14.4	49.13	17.4	35	40/40	I	22	25	I	I	ı
	A20D	-	19.2	65.5	23.3	43	45/45	ı	30	30	I	ı	ı
	A21D	-	19.2	65.5	23.2	43	45/45		30	30	ı	ı	-





CAUTION: BEFORE FINAL REFRIGERANT CHECK, INDOOR RETURN AIR TEMPERATURE MUST BE BETWEEN 72°F & 76°F DB AT 50% R.H. (HEATING AND COOLING), AND NO ICE ON OUTDOOR COILS (HEATING).

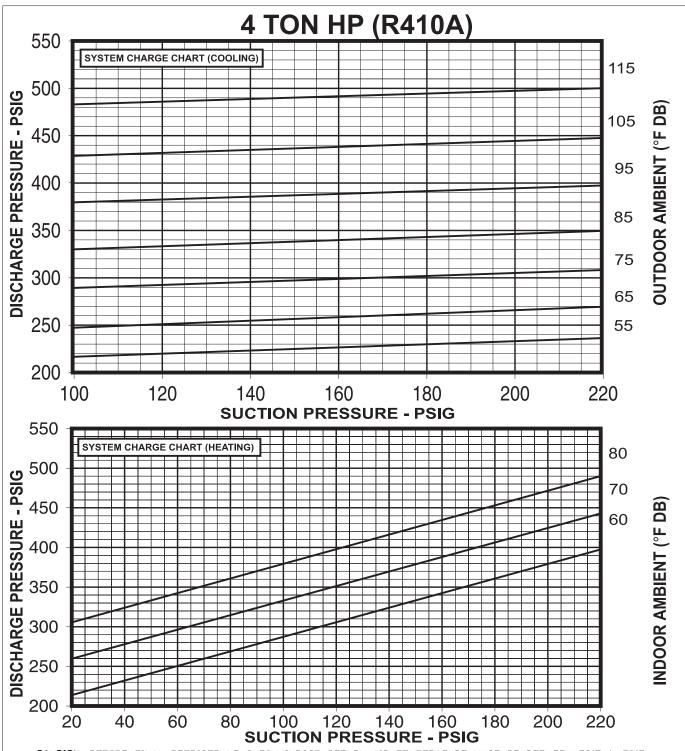
- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN "X" ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF "X" IS BELOW AMBIENT TEMPERATURE LINE, ADD CHARGE AND REPEAT STEP 3.
- 5. IF 'X" IS ABOVE AMBIENT TEMPERATURE LINE, RECOVER EXCESS CHARGE AND REPEAT STEP 3. 92-102380-01-00



CAUTION: BEFORE FINAL REFRIGERANT CHECK, INDOOR RETURN AIR TEMPERATURE MUST BE BETWEEN 72°F & 76°F DB AT 50% R.H. (HEATING AND COOLING), AND NO ICE ON OUTDOOR COILS (HEATING).

- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
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- 5. IF "X" IS ABOVE AMBIENT TEMPERATURE LINE, RECOVER EXCESS CHARGE AND REPEAT STEP 3. 92-102380-02-00

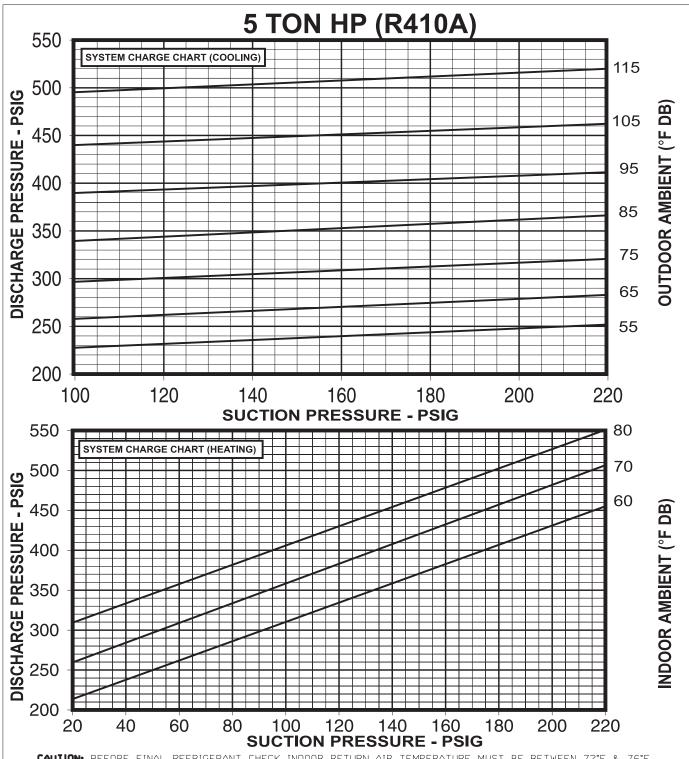
(13 & 14 SEER)



CAUTION: BEFORE FINAL REFRIGERANT CHECK, INDOOR RETURN AIR TEMPERATURE MUST BE BETWEEN 72°F & 76°F DB AT 50% R.H. (HEATING AND COOLING), AND NO ICE ON OUTDOOR COILS (HEATING).

- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN "X" ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF "X" IS BELOW AMBIENT TEMPERATURE LINE, ADD CHARGE AND REPEAT STEP 3.
- 5. IF "X" IS ABOVE AMBIENT TEMPERATURE LINE, RECOVER EXCESS CHARGE AND REPEAT STEP 3. 92-102380-03-00

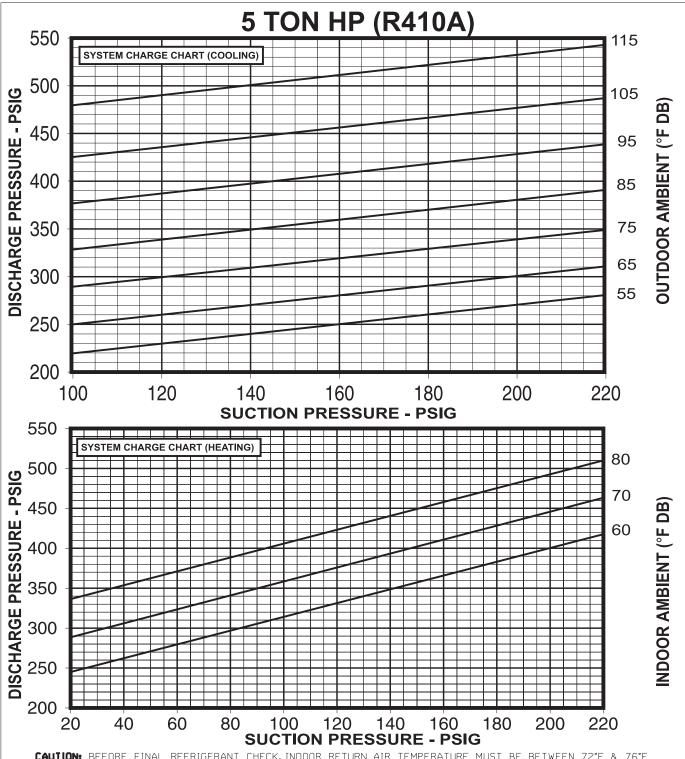
5 TON - 13 SEER



CAUTION: BEFORE FINAL REFRIGERANT CHECK, INDOOR RETURN AIR TEMPERATURE MUST BE BETWEEN 72°F & 76°F DB AT 50% R.H. (HEATING AND COOLING), AND NO ICE ON OUTDOOR COILS (HEATING).

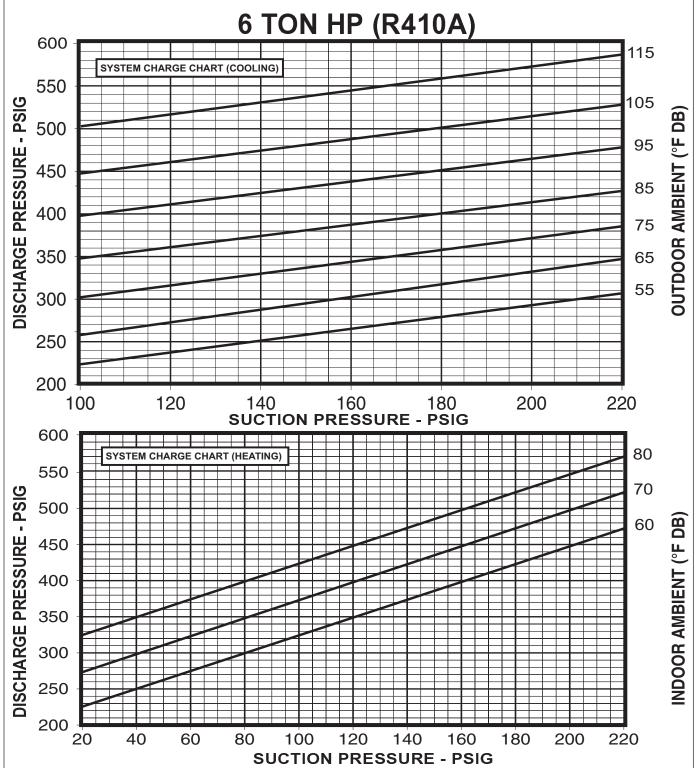
- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN "X" ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF "X" IS BELOW AMBIENT TEMPERATURE LINE, ADD CHARGE AND REPEAT STEP 3.
- 5. IF "X" IS ABOVE AMBIENT TEMPERATURE LINE, RECOVER EXCESS CHARGE AND REPEAT STEP 3. 92-102380-04-00

5 TON - 14 SEER



CAUTION: BEFORE FINAL REFRIGERANT CHECK, INDOOR RETURN AIR TEMPERATURE MUST BE BETWEEN 72°F & 76°F DB AT 50% R.H. (HEATING AND COOLING), AND NO ICE ON OUTDOOR COILS (HEATING).

- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN "X" ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF "X" IS BELOW AMBIENT TEMPERATURE LINE, ADD CHARGE AND REPEAT STEP 3.
- 5. IF "X" IS ABOVE AMBIENT TEMPERATURE LINE, RECOVER EXCESS CHARGE AND REPEAT STEP 3. 92-102380-05-00



CAUTION: BEFORE FINAL REFRIGERANT CHECK, INDOOR RETURN AIR TEMPERATURE MUST BE BETWEEN 72°F & 76°F DB AT 50% R.H. (HEATING AND COOLING), AND NO ICE ON OUTDOOR COILS (HEATING).

INSTRUCTIONS:

- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN 'X' ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF 'X" IS BELOW AMBIENT TEMPERATURE LINE, ADD CHARGE AND REPEAT STEP 3.
- 5. IF 'X" IS ABOVE AMBIENT TEMPERATURE LINE, RECOVER EXCESS CHARGE AND REPEAT STEP 3.

92-102380-06-00

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
	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 Replace forces.
	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- Replace thermostat wiring
Condenser fan runs, compressor doesn't	Run capacitor defective (single phase only) Loose connection Compressor stuck, grounded or open motor winding, open internal overload. Low voltage condition Low voltage condition	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 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
High head-high or normal vapor pressure - Heating mode	Low air flow - condenser coil Refrigerant overcharge Air or non-condensibles in system Dirty condenser coil	Check filters - correct to speed Correct system charge Recover refrigerant, evacuate & recharge Check filter - clean coil
Low head-high vapor pressures	Defective Compressor valves	Replace compressor
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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