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





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

I.TABLE OF CONTENTS

I.	Table of Contents	2
II.	Safety Information	
III.	Introduction	
	A. R-410A Refrigerant	5
IV.	Checking Product Received	6
V.	Equipment Protection From The Environment	6
VI.	Installation	
	A. General	
	B. Outside Slab Installation	
	C. Clearances	
VII.	D. Rooftop Installation	
VIII.	Filters	
IX.	Conversion Procedure	
Χ.	Condensate Drain	
XI.	Condensate Drain, Outdoor Coil	. 15
XII.	Electrical Wiring	. 15
	A. Power Wiring	. 15
	B. Special Instructions for Power	
	Wiring with Aluminum Conductors	
	C. Control Wiring	
	D. Internal Wiring	
	E. Grounding	
\/III		
XIII.	Indoor Air Flow Data	
XIV.	Room Temperature Sensors	
XV.	Crankcase Heat	
XVI.	Pre-Start Check	. 18
XVII.	Startup	. 18
XVIII.	Operation	. 19
XIX.	Auxiliary Heat	. 19
	A. Control System Operation	
XX.	Demand Defrost Control	. 19
XXI.	Replacement Parts	. 21
XXII.	Charge Information	. 21
XXIII.	Troubleshooting	. 21
XXIV.	Wiring Diagrams	. 21
XXV.	General Data22	2-30
XXVI.	Miscellaneous	
	Electrical Data3	
	Indoor Airflow Performance	7-39
	Heater Kits Characteristics	
	Wiring Diagrams	
	Charge Charts	
	Troubleshooting	. 55

II. SAFETY INFORMATION

WARNING

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

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 MONÒXIDE (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 OEHHA (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.

A 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

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 LISTED 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 FACILITATES 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-CONDITIONING 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 WWW.OSHA.GOV AND THE STATE **OF CALIFORNIA'S OEHHA (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 **CONSUMERS ARE AWARE THAT** PRODUCTS PRESENT SAFETY AND HEALTH RISKS, WHEN IMPROPER-LY USED, HANDLED AND MAIN-TAINED.

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.

3. 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.

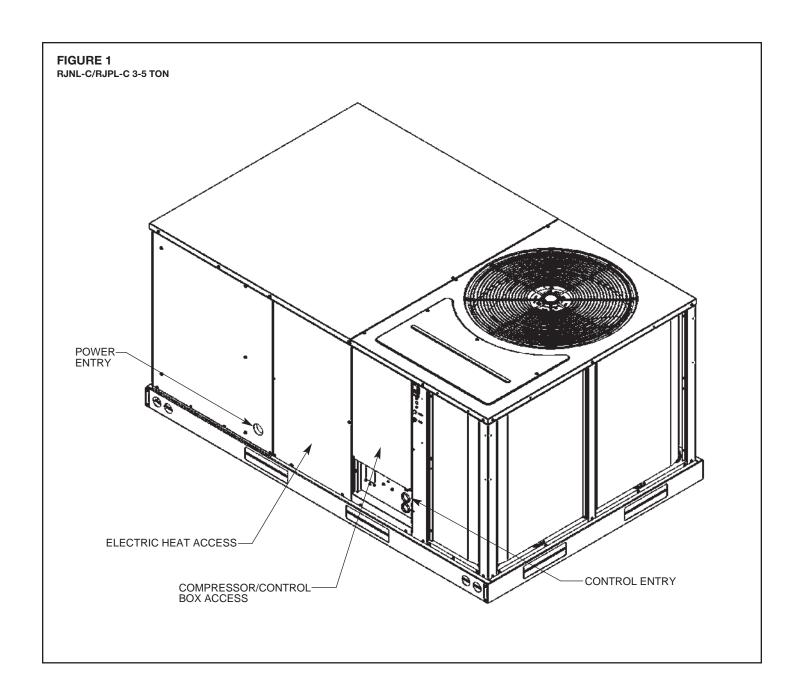
VI. INSTALLATION

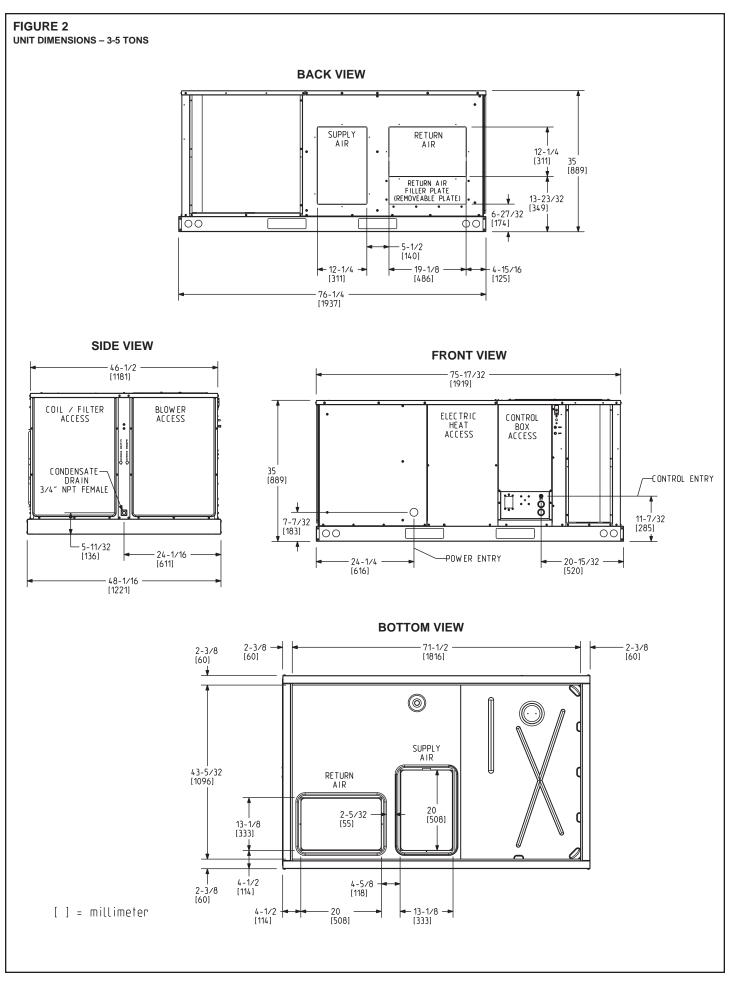
A. GENERAL

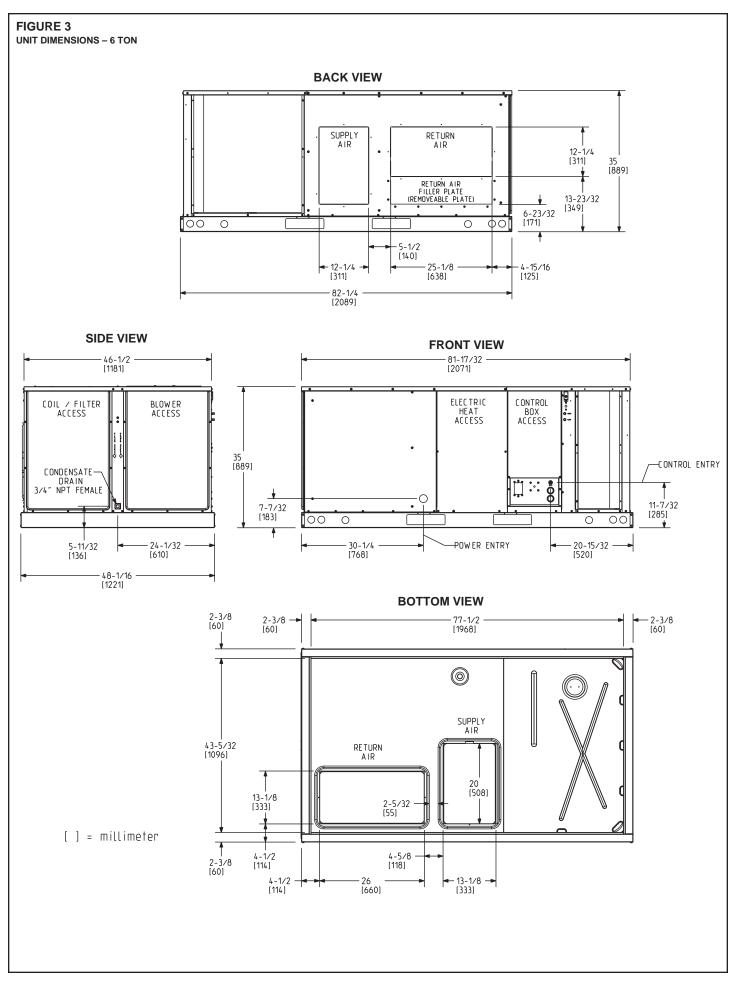
1. PRE-INSTALLATION CHECK-POINTS

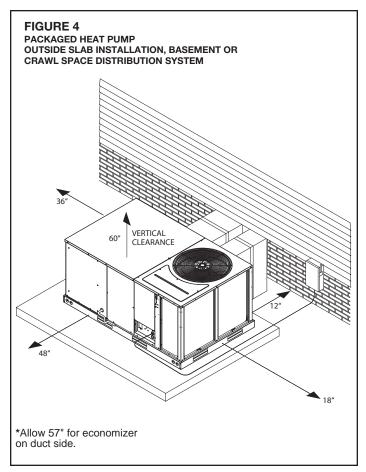
Before attempting any installation, the following points should be carefully considered:

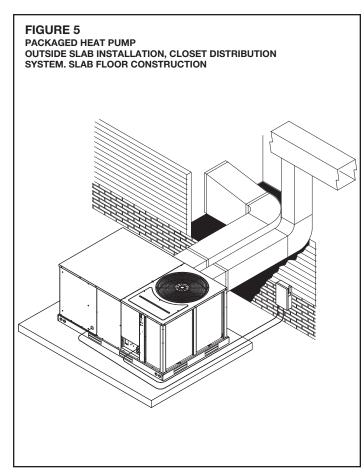
- a. Structural strength of supporting members. (rooftop installation)
- b. Clearances and provision for servicing.
- c. Power supply and wiring.
- d. Air duct connections.

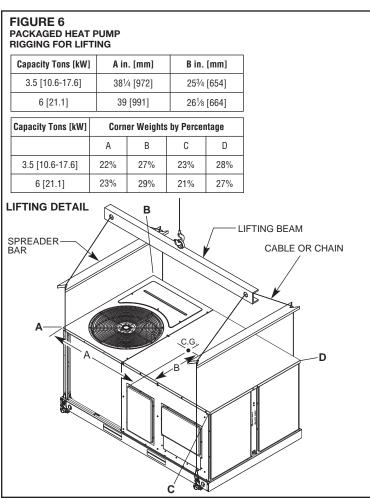


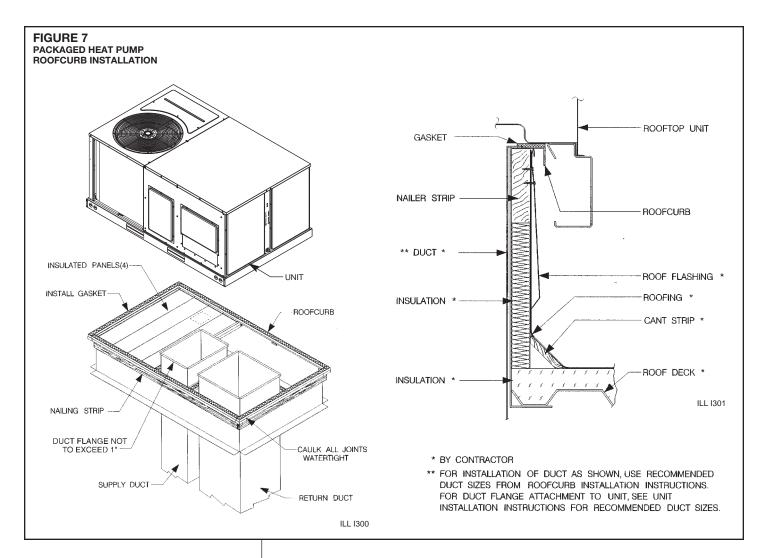












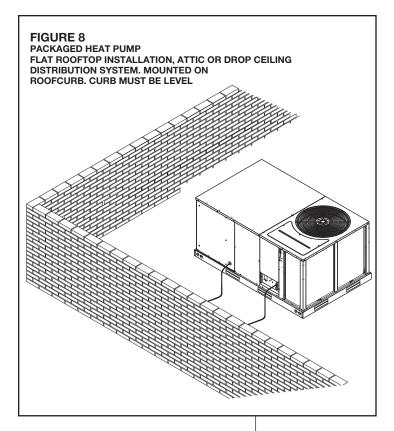
- e. Drain facilities and connections.
- f. Location for minimum noise.

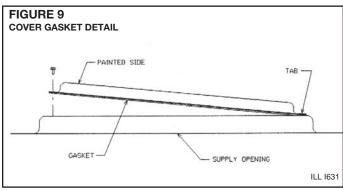
2. LOCATION

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.

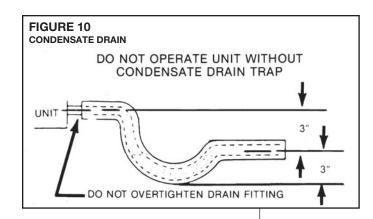
D. ROOFTOP INSTALLATION

- 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.
- 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

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.

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

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

On ductwork exposed to outside air conditions of temperature and humidity, use a minimum of 2" of insulation and a vapor barrier. Distribution system in attic, furred space or crawl space should be insulated with at least 2" of insulation with vapor barrier. One-half to 1" thickness of insulation is usually sufficient for ductwork inside the air conditioned space.

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

When installing ductwork, consider the following items:

- 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.

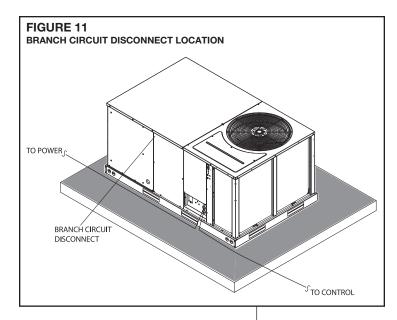


TABLE A WIRE SIZES							
AWG Copper Wire Size AWG Aluminum Connector Type and Size (or equivalent)							
#12	#10	T&B Wire Nut	PT2				
#10	#8	T&B Wire Nut	PT3				
#8	#6	Ilsco Split Bolt	AK-6				
#6	#4	Ilsco Split Bolt	AK-4				
#4	#2	Ilsco Split Bolt	AK-2				
#3	#1	Ilsco Split Bolt	AK-1/0				
#2	#0	Ilsco 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. Refer to Figure 11 for proper location.
 - 3. 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.

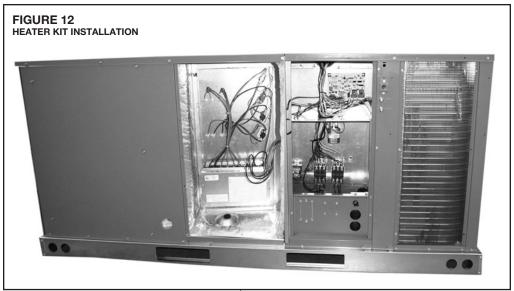


FIGURE 13 **VOLTAGE CONNECTIONS DIAGRAM** STANDARD WIRING FOR INTERNAL WIRING SEE WIRING LABEL ATTACHED TO UNIT. CHASSIS GROUND IFC BOARD LOW VOLTAGE THERMOSTAT CONNECTIONS G C W1 W2 OC Ó \circ \circ \circ \bigcirc - - - - 24 VOLT CONTROL WIRING **THERMOSTAT** NOTE: Y2 IS ONLY NECCESSARY FOR ECONOMIZER OPERATION SUBBASE ST-A1125-38-00

- 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.
- 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	200	6	4	4	4	3	2	2	1	1	1/0	1/0	1/0	2/0	2/0	2/0	3/0	3/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	4/0	300	300	300	300
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 INSTRUC-**TIONS**

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.
- 4. Figure 13 shows representative low voltage connection diagrams. Read your thermostat installation instructions for any special requirements for your specific thermo-

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

1. 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 PRO-VIDED IN THE ELECTRIC HEAT ACCESS AREA FOR A GROUND WIRE. FAILURE TO GROUND THIS UNIT CAN RESULT IN FIRE OR ELECTRICAL SHOCK CAUS-ING 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.

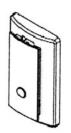
XIII. INDOOR AIR FLOW DATA

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

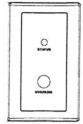
FLUSH MOUNT ROOM TEMPERATURE SENSOR FOR NETWORKED DDC APPLICATIONS (REPLACES THERMOSTAT)



ROOM
TEMPERATURE
SENSOR WITH
TIMED OVERRIDE
BUTTON

ZNS1

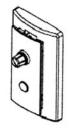
←10kΩ room temperature sensor transmits room temperature to DDC system. Times override buttons allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



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.
- 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	
Voltage at Contactor	
J. Current at Contactor	Amps
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	0,200 [2.1]	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	7.00000000	7.00000000	7.00000000	1.00000000		
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 Rifled	Louvered Rifled	Louvered 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	1 at 1/3 HP	1 at 1/3 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	3/4 1725	1725	3/4 1725		
Motor Frame Size	56	56	56	1725 56		
Filter - Type Furnished	Disposable	Disposable	Disposable	Disposable		
(NO.) Size Recommended in. [mm x mm x mm]	Yes (2)1x25x16 [25x635x406]	Yes (2)1x25x16 [25x635x406]	Yes (2)1x25x16 [25x635x406]	Yes (2)1x25x16 [25x635x406]		
Refrigerant Charge Oz. [g]	116 [3289]	116 [3289]	116 [3289]	116 [3289]		
	110 [9209]	1 10 [3208]	110 [3209]	1 10 [3209]		
Weights Not Weight lbs [kg]	517 [225]	517 [225]	517 [225]	517 [225]		
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				
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	7.00000000	7.00000000	7.00000000	7.00000000		
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll		
Outdoor Sound Rating (dB) ⁵	83	83	83	83		
• • • •						
Outdoor Coil - Fin Type	Louvered Rifled	Louvered	Louvered Rifled	Louvered Rifled		
Tube Type		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		
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		
	1/2	3/4	1/2	3/4		
Motor HP Motor RPM	1725	3/4 1725	1725	3/4 1725		
Motor Frame Size	56	56	56	56		
Filter - Type Furnished	Disposable	Disposable	Disposable	Disposable		
(NO.) Size Recommended in. [mm x mm x mm]	Yes (2)1x25x16 [25x635x406]	Yes (2)1x25x16 [25x635x406]	Yes (2)1x25x16 [25x635x406]	Yes (2)1x25x16 [25x635x406]		
· · · · · · · · · · · · · · · · · · ·				.,		
Refrigerant Charge Oz. [g]	187 [5301]	187 [5301]	187 [5301]	187 [5301]		
Weights	E2E [242]	E3E [343]	EDE [0.40]	E2E [242]		
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			
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]

- 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	000 (004)	000 (004)	000 (004)	000 (004)
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.

Model RJPL - Series	C036CL	C036CM	C036DL	C036DM
Cooling performance ¹				Continued ->
Gross Cooling Capacity Btu [kW]	38,500 [11.28]	38,500 [11.28]	38,500 [11.28]	38,500 [11.28]
EER, SEER ²	12/14	12/14	12/14	12/14
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]	36,800 [10.78]	36,800 [10.78]	36,800 [10.78]	36,800 [10.78]
Net Sensible Capacity Btu [kW]	27,200 [7.97]	27,200 [7.97]	27,200 [7.97]	27,200 [7.97]
Net Latent Capacity Btu [kW]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]
Net System Power kW	2.99	2.99	2.99	2.99
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
System Power KW / COP	2.79/3.48	2.79/3.48	2.79/3.48	2.79/3.48
Low Temp. Btuh [kW] Rating	19,400 [5.68]	19,400 [5.68]	19,400 [5.68]	19,400 [5.68]
System Power KW / COP	2.56/2.22	2.56/2.22	2.56/2.22	2.56/2.22
HSPF (Btu/Watts-hr)	8	8	8	8
· · · · · · · · · · · · · · · · · · ·		-	-	
Compressor	1/Scroll	1/Scroll	1/Scroll	1/Scroll
No./Type				
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]

- 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 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				
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 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]

- 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/Carall	1/Caroll	1/Caroll	1/Carall
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	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		<u> </u>		
			=0= f0=01	505 [050]
Net Weight lbs. [kg]	565 [256]	565 [256]	565 [256]	565 [256]

- 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

	Ī	ELECTR	ICAL DA	ATA – 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
Motol	Phase	3	3	3	3	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Сотр	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
S	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	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
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
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
ڍ	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
Moto	Phase	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450
Comp	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
	Volts	208/230	208/230	460	460
Evaporator Fan	Phase	3	3	3	3
vapore	HP	1 1/2	1 1/2	1 1/2	1 1/2
<u>ш</u>	Amps (FLA, each)	5.8/5.8	5.8/5.8	2.8	2.8
	Amps (LRA, each)	34/34	34/34	17	17

	E	ELECTR	ICAL DA	NTA – 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
Motol	Phase	3	3	3	3	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450	3450	3450	3450	3450
Comp	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
u 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
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

	į.	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	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
/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

	[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	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
u	Volts	208/230	208/230	460	460	208/230	208/230	460	460
tor Fa	Phase	3	3	3	3	3	3	3	3
Evaporator Fan	HP	1/2	3/4	1/2	3/4	3/4	1	3/4	1
<u></u> б	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

								IN	۱D	0	OF	R A	۱F	RF	L	NC	/	PE	ΞΙ	RI	F(OR	M	Α	٨	IC	E -	- F	٦J	PL	_/R	IJ	٧L	C	
Γ			7	WATTS	290	610	089	099	710	092	820	885	ı	1									Γ			.37] WATTS	685	740	810	865	935	1	ı	1	
			-	RPM W	1235	1255	1270	1285	1305	1325	1350	1365		1												RPM WA	1300	1315	1335	1350	1365	_			H
				WATTS	540 1	560 1	009	630 1	675 1	725 1	785	840 1	910												-	ПS	650 1	1 1	745 1	815 1	890	096	1030		L
			Ξ	RPM W/	1190	1210	1230	1250	1260	1280 7	1295 7	1325 8	1350	1												RPM WA	1260 6	1270 6	1290 7	1315	1335	1350 8	1365 1	1	L
				WATTS	510 1	530	540	009	645	685	740	800	875	930													620 1	640	685	760	830	910 1	995 1	1060	0,11
			1.3 [.32]	RPM	1140	1160	1180	1200	1220	1230	1255	1280	1295	1310												RPM WATTS	1215	1235	1250	1270	1290	1315	1340	1355	100
			[30]	WATTS	470	200	240	260	290	645	720	082	830	910											-	SLL	280	009	640	200	022	845	930	1010	
			~	RPM	1080	1100	1115	1145	1165	1195	1220	1245	1265	1290												1.2 .30] RPM WA	1170	1190	1205	1230	1250	1270	1295	1315	0,0,
				WATTS	445	465	485	520	565	615	099	730	800	870												WATTS	540	220	009	099	725	062	860	006	0.0
			-	RPM	1040	1065	1080	1100	1125	1150	1180	1200	1225	1245				6	뀌							RPM V	1115	1140	1160	1180	1205	1225	1250	1275	000
			.25]	WATTS	410	435	450	475	530	575	630	089	750	830				1	DIAME		65					WATTS	490	530	260	630	089	735	800	880	100
			1.0 [.	RPM	066	1015	1040	1060	1085	1110	1135	1160	1185	1210		N (FIELD-SUPPLIED)		\METE	5		1090 - 1365					RPM W/	1075	1100	1115	1140	1160	1180	1205	1225	
		EXTERNAL STATIC PRESSURE - INCHES OF WATER	[.22]	WATTS	390	410	430	450	495	540	290	640	710	0//		ELD-SU	3/4	TCH DI	4.0 - 5.0		RANGE 1				EXTERNAL STATIC PRESSURE - INCHES OF WATER	WATTS	460	490	520	280	635	695	740	835	
		CHES O	-	RPM	096	026	066	1010	1040	1070	1090	1110	1135	1165		N E		- -	ABLE		RPM R				CHESO	RPM	1040	1060	1070	1100	1115	1140	1155	1185	
		URE - IN	[.20]	WATTS	375	390	405	430	450	200	545	909	685	940				-	ADJUSI			Z			URE - IN	.20] WATTS	440	470	200	260	290	645	710	790	
		C PRESS		RPM	920	935	955	975	066	1010	1040	1075	1100	1125		Н				9	922	NCT			C PRESS	BPM RPM	1000	1010	1030	1055	1075	1090	1115	1145	
		AL STATI	[17]	WATTS	360	375	390	410	440	470	505	250	630	069				i i	MEIER	\rightarrow	1000	4			AL STATI	WATTS	420	455	470	200	565	009	099	750	0,0
		EXTERN/		RPM	875	895	915	935	955	975	066	1005	1040	1080				IAMETER	PIICH DIAME		1085				EXTERN/	RPM	945	975	962	1010	1035	1055	1080	1115	
			0.6 [.15]	WATTS	330	345	365	385	415	445	480	525	570	650		≥		H DIAM	- 4.4 PI		1135					.TSJ WATTS	400	435	455	480	530	920	625	069	1
			_	RPM WA	830	820	875	890	915	935	955	970	985	1020				6.4 PITCH D	ADJUSTABLE 3.4 - 4.4	\rightarrow	1185					0.6[.15] RPM WA	006	920	945	970	066	1015	1035	1060	
			0.5 [.12]	WATTS	315	325	340	365	400	430	450	202	250	009) i	JUSTA	-	1230					0.5 J.12] M WATTS	390	415	435	465	200	530	009	640	
			0.6	RPM	780	805	830	850	875	890	915	935	955	975				٢	A A		1295					RPM C	865	880	895	920	945	920	066	1015	
			[10]	RPM WATTS	300	310	325	345	370	400	435	490	535	920	ely.			i E	HEK	\rightarrow	625					RPM WATTS	375	395	420	450	480	200	222	009	100
í	Ŷ.				730	750	780	800	830	850	870	890	915	935	spectiv			ER	H DIAM	\rightarrow	089 0						810	835	855	875	895	920	945	920	
1000	13.25		[.07]	WATTS	290	295	315	330	350	385	415	455	505	250	rives re		- 575V)	DIAMET	.4 PIIC	\dashv	30 730	d print.	SEER)			NATTS WATTS	340	365	395	425	460	485	540	280	
TA DIE	AI PUMP			RPM	999	089	710	735	770	795	825	820	875	068	nd N d		1/2 (3/4 - 575V)	6.9 PITCH DIAMETER	- 4-2	\rightarrow	830 780	lod ni r	4 TON HEAT PLIMP (13 SEER)	ASE			745	022	795	820	850	870	895	925	1
1	30 - 3 PH		0.2 [.05]	WATTS	I	275	300	315	330	365	390	435	475	530	L, Ma			6.9	SIABLE	\rightarrow	875 8	showr	HEAT PL	30 - 3 PH		0.2 [.05] RPM WATTS	Ι	330	350	390	430	465	515	260	3
0	3 & 3.5 8-230, 46			RPM	I	625	640	029	700	730	755	790	825	850	sparate			2	ADJU	_	935 8	ngs are	4 TON	8-230, 46		_	ı	969	725	750	780	810	840	870	
VE O	CAPACII Y 3 & 3.5 ION HEAT FUMP (13 SEEK) VOLTAGE 208-230, 460 - 3 PHASE		0.1 [.02]	WATTS	I	ı	I	ı	315	340	380	420	465	200	lines se	(AGE	۳.	EAVE	=AVE			ive sett	CAPACITY	ı×ı		0.1 .02] M WATTS	1	I	I	360	390	430	475	520	
2				RPM	I	ı	I	ı	625	655	685	730	755	790	NOTE: Bold lines separate L, M and N drives respectively	DRIVE PACKAGE	MOTOR H.P.	BLOWER SHEAVE	MOIOR SHEAVE	TURNS OPEN	RPM	Factory sheave settngs are shown in bold print.		Ш		RPM C	1	I	I	069	720	750	780	820	G L
	AIR		2 2	<u> </u>	900 [425]	1000 [472]	1100 [519]	1200 [566]	1300 [614]	1400 [661]	1500 [708]	1600 [755]	1700	1800 [850]	NOTE	DRIV	¥	BLOW	<u></u>	₽		Facto		E AB		[L/s]	1200 [566]	1300 [614]	1400 [661]	1500 [708]	1600 [755]	1700 [802]	1800 [850]	1900 [897]	2000

C PRESSURE - INCHES OF WATER 1.0 [1	(10 OEED)	CAPACITY 4 TON HEAT PUMP (13 SEER)
0.8 [.20] 0.9 [.22] 1.0 [EXTERNAL ST					VOLTAGE 208-230, 460 - 3 PHASE
	6 [.15] 0.7 [.17]	9.0	0.5 [.12] 0.0		0.5 [.12]	0.4 [.10] 0.5 [.12]
TTS RPM WATTS RPM WATTS RPM WATTS	M WATTS RPM WATTS	Ē	RPM WATTS RPM		WATTS RPM WATTS RPM WATTS	RPM WATTS RPM WATTS
0 1000 440 1040 460 1075 490	0 400 945 420	0	865 390 900	390	375 865 390	340 810 375 865 390
is 1010 470 1060 490 1100 530	975 435 975 455		880 415 920	415	395 880 415	365 835 395 880 415
0 1030 500 1070 520 1115 560	5 455 995 470	4	895 435 945	435	420 895 435	395 855 420 895 435
00 1055 560 1100 580 1140 630	0 480 1010 500	~	920 465 970	465	425 875 450 920 465	875 450 920 465
is 1075 590 1115 635 1160 680	530 1035 565	S	945 500 990	200	460 895 480 945 500	895 480 945 500
00 1090 645 1140 695 1180 735	5 570 1055 600	5	970 530 1015	530	485 920 500 970 530	920 500 970 530
io 1115 710 1155 740 1205 800	1035 625 1080 660		990 600 10	009	540 945 555 990 600	945 555 990 600
io 1145 790 1185 835 1225 880	1060 690 1115 750		1015 640 10	640	580 970 600 1015 640	970 600 1015 640
0 1170 865 1205 900 1255 965	1090 760 1130 810		1045 715 10	715	630 1000 665 1045 715	1000 665 1045 715

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	6.4 PITCH DIAMETER	HDIAN	METER			6.4 PITCH DIAMETER
MOTOR SHEAVE	AD	USTAE	3LE 2.8	- 3.8 P	ITCHD	ADJUSTABLE 2.8 - 3.8 PITCH DIAMETER	ER	AD	IUSTAE	3LE 3.4	- 4.4 PI	TCHD	ADJUSTABLE 3.4 - 4.4 PITCH DIAMETER	24	ADJUSTABLE 4.0 - 5.0 PITCH DIAMETER
TURNS OPEN	0	_	2	3	4	2	9	0	_	2	3	4	5	9	
RPM	066	945 895		850 800	800	750	695	1270	1225	695 1270 1225 1170 1115 1065 1015	1115	1065	1015	396	RPM RANGE 1090 - 1365

Factory sheave settngs are shown in bold print.

5 TON

						II	NC	0	OI	R /	ΑII	RF	L	D۷	PE	RI	FC	R	M	Α	NC	E – RJPL/RJNL-C
		27	WATTS	745	805	880	940	1020	1100	I	ı	E	I	I								
		1 50 [37]	RPM	1340	1355	1365	1375	1390	1405	ı	H	7	-	ı								
		351	WATTS	705	775	840	902	982	1050	1120	1200	_	ı	ı								
		1 40 [35]	RPM	1300	1320	1340	1355	1365	1375	1385	1400	ı	ı	ı								
		1391	WATTS	099	735	790	855	930	1000	1075	1150	1225	1320	ı								
		1 30 [30]	RPM	1235	1255	1275	1300	1320	1335	1350	1370	1385	1405	I								
		1301	WATTS	645	200	750	815	880	096	1035	1100	1180	1260	1375								
		1 20 [30]	RPM	1195	1215	1225	1245	1260	1290	1320	1335	1360	1375	1400								
		126	WATTS	615	675	730	790	850	915	980	1060	1140	1230	1315								
		1 10 [92]	RPM	1150	1165	1180	1200	1225	1245	1260	1290	1320	1350	1370							32	
		. 251	WATTS	595	029	705	755	810	890	950	1020	1100	1175	1255						9	1095	
		10[95]	RPM	1105	1135	1145	1160	1175	1200	1225	1250	1275	1310	1340						2	1145	
	WATED	WAIER	WATTS	570	615	089	725	785	850	910	995	1055	1125	1210				<u>بي</u>	- ADJ.	4	1195	
	יחבני טבו	TO CHES	RPM	1065	1080	1105	1120	1140	1160	1180	1210	1240	1265	1300				IAMETE	AMETEF			
	IN SOLID	AESSURE-IN	WATTS	540	595	640	089	760	810	875	950	1020	1095	1175		"W	_	PITCH DIAMETER	PITCH DIAMETER - ADJ	3	1250	
	יום סובס	O PRES	RPM	1030	1045	1060	1075	1100	1120	1145	1170	1195	1225	1260				6.4	4-4.4 PI	2	1305	
	EXTERNAL STATIC BRESSIIDE INCHES OF WATER	MAL SIAI	WATTS	490	540	009	640	710	775	830	910	086	1050	1140					3.	_	1360	
	EVTED	EX IER	RPM	970	995	1015	1035	1055	1070	1105	1130	1155	1180	1225						0	1405	
		0.6.[45]	WATTS	460	200	260	605	099	720	790	870	940	1025	1085							14	
		90	RPM	930	945	965	066	1010	1035	1055	1090	1120	1150	1175						9	780	
		0.5.[12]	WATTS	425	440	510	570	675	675	730	820	880	965	1055						2	835	
		0	RPM	875	895	915	940	965	995	1015	1040	1060	1100	1145					ADJ.		0	
		0.4 [10]	WATTS	385	415	470	530	540	640	200	200	830	910	1005	ø			METER	2.8-3.8 PITCH DIAMETER - ADJ	4	890	
		0	2	815	840	870	895	915	945	970	1005	1030	1065	1100	old line	į.	3/4	6.4 PITCH DIAMETER	H DIAM	3	940	
	208-230, 460 - 3 PHASE	0.3 [07]	WATTS	370	405	425	490	540	290	655	705	780	830	925	ight of b			6.4 PIT	3.8 PITC	2	995	ਹੁ
	30, 460 -	Ċ	~	780	795	805	840	870	895	930	922	995	1015	1040	-Drive r				2.8-3			od ni n
SEER	208-2	0.91.051	WATTS	ı	ı	390	450	470	530	605	655	735	795	880	line, M					_	1040	e show
TON - 13		ò	2	ı	1	780	795	815	850	880	915	945	975	1015	of bold					0	1095	tings ar
CAPACITY5 TON - 13 SEER	LTAGE	0.4 [.02]	WATTS	1	_	1	1	455	485	250	615	089	755	825	VOTE: L-Drive left of bold line, M-Drive right of bold line.	KAGE	4. P.	HEAVE	EAVE	PEN		actory sheave settings are shown in bold.
Ш	\perp		2		<u></u>		1	780	800	830	098 1	895	940	970	E: L-Dr	DRIVE PACKAGE	MOTOR H.P.	BLOWER SHEAVE	MOTOR SHEAVE	TURNS OPEN	RPM	ory she
AB	FLOW	CFM	[Vs]	1400 [661]	1500 [708]	1600 [755]	1700 [802]	1800 [850]	1900 [897]	2000 [944]	2100 [991]	2200 [1038]	2300 [1085]	2400 [1133]	TO	NS NS	Ź	300	MO	1		actc

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

				9	1095
				5	1145
		ETER	3.4-4.4 PITCH DIAMETER - ADJ.	4	1195
"M"	-	6.4 PITCH DIAMETER	CH DIAME	3	1250
		6.4 PI	3.4-4.4 PIT	2	1305
				1	1360
				0	1405
				9	780
				5	835
		ETER	rer - ADJ.	4	890
"Г"	3/4	6.4 PITCH DIAMETER	2.8-3.8 PITCH DIAMETER - ADJ.	3	940
		6.4 PI	.8-3.8 PIT	2	995
			2	1	1040
				0	1095
DRIVE PACKAGE	MOTOR H.P.	BLOWER SHEAVE	MOTOR SHEAVE	TURNS OPEN	RPM

Factory sheave settings are shown in bold.

INDOOR AIRFLOW PERFORMANCE - RJNL-C

			[37]	8	1188	1277	1377	1486	1605	1733	1872	2020	ı	ı	I
			1.5	RPM	1287	1300	1315	1331	1348	1366	1386	1407	ı	1	I
			[32]	Μ	1130	1216	1312	1418	1533	1659	1794	1939	ı	ı	I
			1.4	RPM	1252	1266	1282	1299	1317	1336	1357	1379	ı	ı	I
			[32]	Α.	1074	1157	1250	1352	1465	1587	1719	1861	2012	ı	I
			1.3	RPM	1217	1232	1249	1267	1286	1306	1328	1351	1375	ı	I
			30]	Μ	1021	1101	1190	1289	1398	1517	1646	1784	1933	ı	ı
			1.2 [.30]	RPM	1181	1198	1215	1234	1254	1276	1298	1322	1347	ı	1
			[.27]	Μ	126	1047	1133	1229	1334	1450	1575	1711	1856	2011	ı
			1.1	RPM	1146	1163	1181	1201	1222	1245	1268	1293	1319	1346	ı
			1.0 [.25]	Μ	923	966	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
		s of Wate	0.9 [.22	RPM	1073	1092	1113	1135	1158	1182	1207	1234	1262	1291	1322
		External Static Pressure — Inches of Water [kPa	[.20]	W	834	006	926	1062	1158	1264	1379	1505	1640	1785	1940
		ressure	0.8	RPM	1036	1057	1078	1101	1125	1150	1176	1204	1233	1263	1295
		al Static F	.17]	Α	793	856	929	1012	1104	1207	1319	1441	1573	1715	1866
		Externa	0.7 [RPM	666	1020	1043	1066	1091	1118	1145	1174	1204	1235	1267
			.15]	W	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
			12]	W	720	9//	842	919	1004	1100	1206	1321	1446	1582	1726
			0.5 [.12]	RPM	924	947	971	266	1024	1052	1081	1112	1144	1177	1211
			0.4 [.10]	W	289	740	803	876	958	1051	1153	1265	1387	1519	1660
			0.4	RPM	988	910	935	362	066	1019	1049	1081	1114	1148	1183
			[.07]	M	959	902	992	835	914	1004	1103	1211	1330	1458	1597
	hase		0.3 [.07]	RPM	847	872	899	926	955	985	1016	1049	1083	1118	1154
	35-3F		.05]	W	I	ı	731	797	873	959	1055	1160	1276	1401	1536
4072	Voltage 208/230, 460, 575 — 3 Phase		0.2 [.05]	RPM	ı	ı	862	890	920	951	983	1017	1052	1088	1125
Model RJNL-A072	ige 208/2		.02]	M	-	I	Ι	762	834	917	1009	1112	1224	1345	1477
Mod	Volta		0.1 [.02]	RPM	I	ı	I	854	885	917	950	985	1020	1057	1096
	Air	AIL FIOW	CTM [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				_							Σ			
Motor H.P. [W]				1.5 [1118.5]	2]						1.5 [1118.5]	5]		
Blower Sheave				AK66							AK59			
Motor Sheave				1VP-44							1VP-50			
Turns Open	0	-	2	3	4	5	9	0	-	2	က	4	2	9
RPM	1103	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 [.01]	0.07	0.08	0.08	0.09	0.10 [.02]	0.10	0.11	0.11	0.12 [.03]
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	0.09	0.09	0.10	0.10 [.02]	0.10 [.02]	0.11	0.11	0.12 [.03]	0.12 [.03]
Horizontal Economizer RA Damper Open	0.08	0.08	0.09	0.09	0.10	0.10 [.02]	0.10 [.02]	0.11	0.11	0.12 [.03]	0.12 [.03]
Concentric Grill RXRN-FA65 or RXRN-FA75 & Transition RXMC-CC04	0.07	0.08	0.09	0.10 [.02]	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

		10 VOL.,	208-240 VOLI, IHKEE PHASE, 60		AUXILIAR	Y ELECTRI	C HEATE	R KITS CI	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	init And Heat	ər Kit			Separate	ē	Supply For Both Unit And Heater Kit	Jnit And Hea	ter Kit
			Heater Kit			T	Heat Pumb		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 (Protective I	Over Current Protective Device Size
RJNL-	Nominal kW	Steps	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			I
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30			1
103600	A11C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30			I
CUSSCE	A12C	1	8.4/11.2	28.66/38.21	23.4/27	48/52	20/20	09/09	30/34	30/35			I
	A15C	~	10.8/14.4	36.84/49.13	30.1/34.7	56/62	09/09	70/70	38/44	40/45	I	ı	I
	A20C	_	14.4/19.2	49.13/65.5	40/46.3	92/89	02/02	80/80	50/58	20/60	I	1	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	70/70	80/80	50/58	20/60		1	I
	No Heat				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		1	Ι
C042CI	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30		1	I
00450L	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	09/09	09/09	30/34	30/35		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	I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/60	1		I
	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	Ι
	No Heat	l	I		I	22/22	25/35	25/35			22/22	25/35	25/32
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	37/39	40/45	40/45	15/17	15/20			I
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	l	1	I
104801	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30			I
00400 10400	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	09/09	09/09	30/34	30/35			I
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	99/09	09/09	02/02	38/44	40/45		Ι	I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/60	l	1	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	80/80	50/58	20/60	I	1	I
	No Heat				1	26/26	30/40	30/40			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	I
	A10C	_	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	1	I
COROCI	A11C	1	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	l	1	I
00000 L	A12C	1	8.4/11.2	28.66/38.21	23.4/27	26/60	60/50	70/70	30/34	30/35			I
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	64/70	02/02	80/80	38/44	40/45	I	1	I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	20/60	1	1	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	20/60	1	1	I
	No Heat	1	1	1		34/34	40/20	40/20			34/34	40/20	40/20
100700	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	72/78	80/80	08/08	38/44	40/45			I
COLECE	A20C	1	14.4/19.2	49.13/65.5	40/46.3	84/92	06/06	100/100	50/58	20/60	1	1	I
	A24C	_	18/24	61.41/81.88	50/57.7	97/107	100/100	110/110	63/73	70/80	I	1	I

	208-2	40 VOLT, 1	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	oly For Both U	Init And Heat	er Kit			Separate	Separate Power Supply For Both Unit And Heater Kit	ly For Both U	Init And Hea	ter Kit
			Heater Kit			II	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 (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	Ι	Ι
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	44/48	45/45	20/20	25/29	25/30	1	I	I
MUSCOU	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	I
	A12C	1	8.4/11.2	28.66/38.21	23.4/27	49/53	20/20	09/09	30/34	30/35	1	Ι	Ι
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	21/63	09/09	02/02	38/44	40/45	1	Ι	Ι
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	22/69	70/70	80/80	50/58	50/60	1	I	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	22/69	02/02	80/80	50/58	20/60	-	I	I
	No Heat			1		22/22	30/35	30/32		_	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	-	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	1	Ι	Ι
C042CM	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30	1	I	I
200	A12C	1	8.4/11.2	28.66/38.21	23.4/27	52/56	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	99/09	02/02	02/02	38/44	40/45	_	Ι	Ι
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	50/60	1	I	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	50/60	I	Ι	Ι
	No Heat		1	1	1	23/23	30/35	30/35		_	23/23	30/32	30/35
	A06C	1	4.2/5.6	14.33/19.1	11.7/13.5	38/40	40/45	40/45	15/17	15/20	1	Ι	1
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	48/52	20/20	09/09	25/29	25/30	_	I	I
COARCIM	A11C	1	7.2/9.6	24.56/32.75	20/23.1	48/52	20/20	09/09	25/29	25/30	1	I	I
	A12C	1	8.4/11.2	28.66/38.21	23.4/27	23/22	09/09	09/09	30/34	30/32	1	Ι	Ι
	A15C	7	10.8/14.4	36.84/49.13	30.1/34.7	61/67	02/02	02/02	38/44	40/45	1	Ι	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	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	50/58	20/60	I	I	Ι
	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	I	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	I
	A12C	1	8.4/11.2	28.66/38.21	23.4/27	26/60	60/50	20/02	30/34	30/35	I	1	I
	A15C	_	10.8/14.4	36.84/49.13	30.1/34.7	64/70	02/02	80/80	38/44	40/45	I	I	I
	A20C	_	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	20/60	I	1	I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	50/60	1	ı	Ι
	No Heat	I	1	I	I	34/34	40/20	40/20	1	1	34/34	40/20	40/20
MOCZOO	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	I
200	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	I	I	I

No of Rated Heater Heate		480	VOLT, THI	480 VOLT, THREE PHASE, 60 HZ	, 60 HZ, AL	JXILIARY	, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	HEATER	KITS CHA	RACTERIS	STICS AND	APPLICA	TION	
No. of Ratio Health Kit No. of Ratio Rat			Sing	le Power Supp	ly For Both U	nit And Heat	er Kit			Separate	Power Supp	ly For Both U	Init And He	ter Kit
RXJJ- Heister KII Non of Nonheial KW Sieps No. of 480 V 480 V				Heater Kit			=	leat Pump		Heat	er Kit		Heat Pump	
Nominal kW Steps 480 V	Unit Model Number						Unit Min. Ckt Ampacity @		urrent Jevice 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></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
AMDEC 1 5.6 19.1 6.8 19 2020 — 9 15 AVID 1 9.6 32.75 11.6 25 25.25 — 15 15 AVID 1 9.6 32.75 11.6 25 25.25 — 15 15 AVID 1 14.2 38.21 17.4 30 20 20 20 AVID 1 14.4 49.13 17.4 30 30 30 30 AVID 1 19.2 65.5 23.3 40 40/40 — 30 30 AVID 1 19.2 65.5 23.2 40 40/40 — 30 30 AVID 1 19.2 65.5 23.2 40 40/40 — 30 30 AVID 1 19.2 65.5 23.2 40 40/40 — 17 20 AVID		No Heat		1		1	10	15/15				10	15/15	
A10D 1 96 32.75 11.6 25 25/25 — 15 15 A11D 1 1 38.21 13.5 27 30/30 — 17 16 15 A15D 1 1 38.21 17.4 32 36/35 — 17 16<		A06C	1	5.6	19.1	6.8	19	20/20		6	15		1	1
A11D 1 9 6 32.75 11 6 25 25.25 — 15 15 A72D 1 11 2 32.73 11.4 32.73 37.85 — 17 20 A70D 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 A21D 1 19.2 65.5 23.3 40 40.40 — 30 30 A21D 1 19.2 65.5 23.2 40 40.40 — 30 30 A1D 1 19.6 19.1 6.8 19.2 6.8 15 20 30 30 A1D 1 1.2 2.2 2.5 2.6 15 16 15 16 16 16 16 16 16 16 16 16 16 16 <td< td=""><td></td><td>A10D</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> </td><td>ı</td><td>I</td></td<>		A10D	1	9.6	32.75	11.6	25	25/25	Ι	15	15		ı	I
A12D 1 112 38.21 13.5 27 30,30 — 17 20 A2DD 1 14.4 645.13 17.4 30 — 17 20 A2DD 1 14.4 645.13 23.2 40 40,40 — 30 30 A2DD 1 19.2 65.5 23.2 40 40,40 — 30 30 A0DD 1 19.2 65.5 23.7 40 40,40 — 30 30 A1DD 1 9.6 32.75 11.6 25 25/25 — 15 15 A1DD 1 9.6 32.75 11.6 25 25/25 — 15 15 A2DD 1 14.4 49.13 17.4 32 36/36 — 15 15 A2DD 1 1 14.4 49.13 17.4 32 36/36 — 15 15 <tr< td=""><td>וחפנוט</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> </td><td> </td><td>1</td></tr<>	וחפנוט	A11D	1	9.6	32.75	11.6	25	25/25	Ι	15	15			1
A15D 1 14.4 49.13 17.4 32 38.68 — 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 A21D 1 19.2 66.5 23.3 40 40.40 — 30 30 A06D 1 1 6.6 32.75 11.6 25 20.20 —	COSODE	A12D	_	11.2	38.21	13.5	27	30/30	Ι	17	20	1	Ι	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> </td> <td>ı</td> <td>ı</td>		A15D	_	14.4	49.13	17.4	32	35/35	ı	22	25		ı	ı
AZID 1 192 65.5 23.2 40 4040 — 30 30 No Heat — — — — — — — — — A06D 1 5.6 13.75 11.6 25 25/25 — 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 15 A2D 1 10.2 20.3 40.40 — 30 30 A2DD 1 14.4 49.13 17.4 32 36/35 — 17 20 A0D 1 10.2 20.20 — 9 15 16 A1D 1 10.2 20.2		A20D	_	19.2	65.5	23.3	40	40/40	I	30	30	1	I	ı
No Heat — </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>Ι</td> <td>30</td> <td>30</td> <td> </td> <td>I</td> <td>ı</td>		A21D	_	19.2	65.5	23.2	40	40/40	Ι	30	30		I	ı
A06D 1 56 19.1 6.8 19 20020 — 9 15 A10D 1 5.6 32.75 11.6 25 25/25 — 15 15 A1D 1 9.6 32.75 11.6 25 25/25 — 15 15 A1D 1 1.2 38.21 13.5 27 30/30 — 17 20 A1D 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 A1DD 1 19.2 65.5 23.3 41 40/40 — 15 15 <td></td> <td>No Heat</td> <td> </td> <td> </td> <td> </td> <td>1</td> <td>10</td> <td>15/15</td> <td>Ι</td> <td>1</td> <td>1</td> <td>10</td> <td>15/15</td> <td> </td>		No Heat				1	10	15/15	Ι	1	1	10	15/15	
A10D 1 9.6 32.75 11.6 25 25/25 — 15 15 A10D 1 9.6 32.75 11.6 25 25/25 — 15 15 A1D 1 11.4 49.13 17.4 32 36/35 — 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 23.2 40 40/40 — 30 30 A1DD 1 19.2 65.5 23.2 40 40/40 — 30 30 A1DD 1 19.6 32.75 11.6 26 25/25 — 15 15 A2DD 1 14.4 49.13 17.4 33 30 30 A2DD		A06D	_	5.6	19.1	8.9	19	20/20		6	15	1	I	I
A11D 1 96 32.75 116 25 25/25 — 15 15 A12D 1 11.2 38.21 13.5 27 30/30 — 17 20 A20D 1 14.2 38.21 13.5 23.3 40 40/40 — 22 25 A20D 1 19.2 66.5 23.2 40 40/40 — 30 30 A21D 1 19.2 66.5 23.2 40 40/40 — 30 30 A0ED 1 19.2 66.5 23.2 40 40/40 — 30 30 A0ED 1 19.2 66.5 23.7 11.6 26 25/25 — 15 15 A1D 1 9.6 32.75 11.6 26 25/25 — 15 15 A2D 42 40 40 40 — 17 15 <td></td> <td>A10D</td> <td>_</td> <td>9.6</td> <td>32.75</td> <td>11.6</td> <td>25</td> <td>25/25</td> <td> </td> <td>15</td> <td>15</td> <td>1</td> <td>I</td> <td>I</td>		A10D	_	9.6	32.75	11.6	25	25/25		15	15	1	I	I
A12D 11.2 38.21 13.5 27 30/30 — 17 20 A15D 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 A21D 1 19.2 65.5 23.2 40 40/40 — 30 30 No Heat —	C042DI	A11D	_	9.6	32.75	11.6	25	25/25	I	15	15	I	I	I
A15D 1 144 49.13 17.4 32 36/35 — 22 25 A20D 1 19.2 65.5 23.3 40 40/40 — 30 30 A21D 1 19.2 65.5 23.3 40 40/40 — 30 30 No Heat — </td <td>7</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> </td> <td>17</td> <td>20</td> <td>1</td> <td>I</td> <td>I</td>	7	A12D	_	11.2	38.21	13.5	27	30/30		17	20	1	I	I
A20D 1 19.2 65.5 23.3 40 4040 — 30 30 No Heat —<		A15D	_	14.4	49.13	17.4	32	35/35	I	22	25	I	I	I
A21D 1 9.2 65.5 23.2 40 40/40 — 30 30 No Heat —<		A20D	_	19.2	65.5	23.3	40	40/40	1	30	30		I	ı
No Heat — 1 1 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>1</td> <td>30</td> <td>30</td> <td>I</td> <td>I</td> <td>ı</td>		A21D	_	19.2	65.5	23.2	40	40/40	1	30	30	I	I	ı
A06D 1 5.6 19.1 6.8 20 20/20 — 9 15 15 15 A10D 1 9.6 32.75 11.6 26 25/25 — 15 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		No Heat		I		l	11	15/15		ı		11	15/15	1
A10D 1 9.6 32.75 11.6 26 25/25 — 15 15 A1D 1 9.6 32.75 11.6 26 25/25 — 15 15 A1D 1 9.6 32.75 11.6 26 25/25 — 17 20 A20D 1 14.4 49.13 17.4 33 35/35 — 17 20 A20D 1 19.2 65.5 23.3 41 40/40 — 30 30 A20D 1 19.2 65.5 23.3 41 40/40 — 30 30 A20D 1 19.2 65.5 23.3 41 40/40 — 15 15 A10D 1 5.6 19.1 6.8 22 25/25 — 15 15 A10D 1 9.6 32.75 11.6 28 30/30 — 15 15 <		A06D	1	5.6	19.1	6.8	20	20/20	Ι	6	15		Ι	ı
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 35/35 — 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 A30D 1 19.2 65.5 23.3 41 40/40 — — — A40D 1 19.2 65.5 22.3 41 40/40 — 90 15 A10D 1 19.6 32.75 11.6 28 30/30 — 15 15 A10D 1 14.4 49.13 17.4 35 30/30 — 17 20		A10D	_	9.6	32.75	11.6	26	25/25	Ι	15	15	1	Ι	I
A12D 1 11.2 38.21 13.5 28 30/30 — 17 20 A15D 1 14.4 49.13 17.4 33 35/35 — 22 25 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 No Heat — — — — — — — — — A00D 1 5.6 19.1 6.8 22 25/25 — 9 15 A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 A12D 1 14.4 49.13 17.4 35 36/35 — 22 25 A21D 1 14.4 49.13 17.4 35 30/30 — 17 20	C048DI	A11D	_	9.6	32.75	11.6	26	25/25	I	15	15	I	I	I
A15D 1 14.4 49.13 17.4 33 35/35 — 22 25 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 No Heat — — — — — — — — A06D 1 6.6 19.1 6.8 22 25/25 — 9 15 A07D 1 9.6 32.75 11.6 28 30/30 — 15 15 A11D 9.6 32.75 11.6 28 30/30 — 15 15 A11D 11.2 38.21 13.5 30 30/30 — 15 15 A21D 1 14.4 49.13 17.4 35 35/35 — 17 20 A21D 1	1	A12D	_	11.2	38.21	13.5	28	30/30	I	17	20		I	I
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 No Heat — — — — — — — — A06D 1 5.6 19.1 6.8 22 25/25 — 9 15 A10D 1 9.6 32.75 11.6 28 30/30 — 15 15 A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 A12D 1 14.4 49.13 17.4 35 36/35 — 17 20 A20D 1 19.2 65.5 23.3 43 45/45 — 9 — A21D 1 19.2 65.5 23.3 43 45/45 — 9 1 A21D		A15D	_	14.4	49.13	17.4	33	35/35	I	22	25	1	I	ı
A21D 1 19.2 65.5 23.3 41 40/40 — 30 30 No Heat — </td <td></td> <td>A20D</td> <td>-</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>41</td> <td>40/40</td> <td>1</td> <td>30</td> <td>30</td> <td>1</td> <td>I</td> <td>ı</td>		A20D	-	19.2	65.5	23.3	41	40/40	1	30	30	1	I	ı
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>I</td> <td>I</td>		A21D	_	19.2	65.5	23.3	41	40/40	I	30	30	I	I	I
A06D 1 5.6 19.1 6.8 22 25/25 — 9 15 A10D 1 9.6 32.75 11.6 28 30/30 — 15 15 A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 A20D 1 14.4 49.13 17.4 35 35/35 — 22 25 A21D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — — — — — 17 20/25 — — — A15D 1 14.4 49.13 17.4 39 40/40 — 22 25 A20D 1 19.2 65.5 23.3 47 60/60 — 30 <td< td=""><td></td><td>No Heat</td><td>1</td><td>1</td><td>I</td><td>1</td><td>13</td><td>15/20</td><td>I</td><td>I</td><td>1</td><td>13</td><td>15/20</td><td>I</td></td<>		No Heat	1	1	I	1	13	15/20	I	I	1	13	15/20	I
A10D 1 9.6 32.75 11.6 28 30/30 — 15 15 A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 A20D 1 14.4 49.13 17.4 35 35/35 — 22 25 A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — — — — — 17 20/25 — — — 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 <		A06D	_	5.6	19.1	6.8	22	25/25	I	6	15		ı	ı
A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 A20D 1 14.4 49.13 17.4 35 35/35 — 22 25 A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — — — — — 17 20/25 — — — — A15D 1 14.4 49.13 17.4 39 40/40 — — — — A20D 1 14.4 49.13 17.4 39 40/40 — 22 25 A24D 1 24 81.88 28.9 54 60/60 — 37 40		A10D	_	9.6	32.75	11.6	28	30/30	I	15	15	I	I	I
A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 A15D 1 14.4 49.13 17.4 35 35/35 — 22 25 A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — — — — 17 20/25 — — — A15D 1 14.4 49.13 17.4 39 40/40 — — — A20D 1 19.2 65.5 23.3 47 50/50 — 22 25 A24D 1 24 81.88 28.9 54 60/60 — 37 40	וחספטט	A11D	_	9.6	32.75	11.6	28	30/30	I	15	15	I	I	I
A15D 1 14.4 49.13 17.4 35 35/35 — 22 25 A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 A21D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — — — — 17 20/25 — — — 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	7	A12D	_	11.2	38.21	13.5	30	30/30	l	17	20	1	I	I
A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 A21D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — — — — 17 20/25 — — — 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		A15D	_	14.4	49.13	17.4	35	35/35		22	25	1	I	I
A21D 1 19.2 65.5 23.3 43 45/45 — 30 30 No Heat — </td <td></td> <td>A20D</td> <td>1</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>43</td> <td>45/45</td> <td> </td> <td>30</td> <td>30</td> <td>1</td> <td>1</td> <td> </td>		A20D	1	19.2	65.5	23.3	43	45/45		30	30	1	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>43</td> <td>45/45</td> <td>Ι</td> <td>30</td> <td>30</td> <td> </td> <td>I</td> <td>ı</td>		A21D	1	19.2	65.5	23.3	43	45/45	Ι	30	30		I	ı
A15D 1 14.4 49.13 17.4 39 40/40 — 22 A20D 1 19.2 65.5 23.3 47 50/50 — 30 A24D 1 24 81.88 28.9 54 60/60 — 37		No Heat		I	l	1	17	20/25	I		1	17	20/25	ı
A20D 1 19.2 65.5 23.3 47 50/50 — 30 A24D 1 24 81.88 28.9 54 60/60 — 37	100700	A15D	1	14.4	49.13	17.4	39	40/40	1	22	25			
1 24 81.88 28.9 54 60/60 — 37	COTABL	A20D	_	19.2	65.5	23.3	47	20/20	I	30	30		I	I
		A24D	_	24	81.88	28.9	54	60/60	1	37	40	1	I	

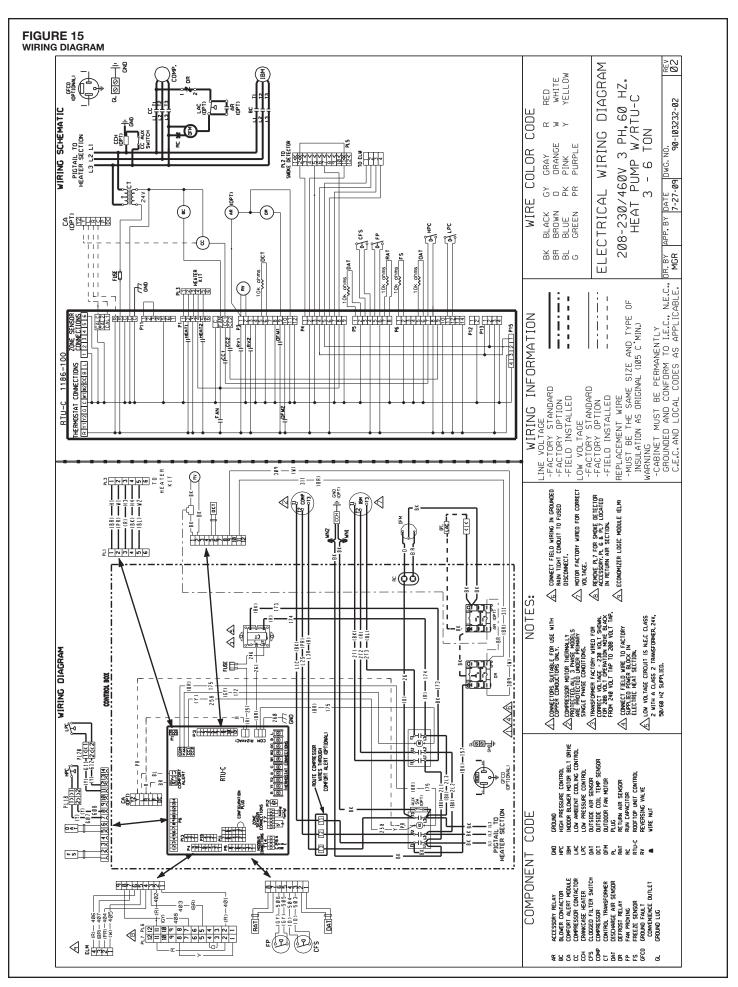
The continuity of the contin		480	VOLT, THE	480 VOLT, THREE PHASE,	60 HZ,	JXILIARY I	AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS	HEATER	KITS CHA	RACTERIS		AND APPLICATION	NOI	
Heating Holiang Heating Holiang Holiang Heating Holiang			Singl	le Power Supp	ly For Both U	Init And Heat	er Kit			Separate	Power Suppl	y For Both U	nit And Hea	ter Kit
RXJJ- Febrar (II. Sequence) No. of RWW (III. Sequence) RAMIC (III. RWW (III. RW				Heater Kit			_	leat Pump		Heat	er Kit		Heat Pump	
Nomine IMM Sieps 480 V	Unit Model Number				Heater KBTU/Hr @		Unit Min. Ckt Ampacity @		urrent evice Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over C Protective	urrent Jevice 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
ANOC 11 6.6 19.1 6.8 19.2 9 15 A100 1.1 6.6 32.76 11.6 25 252.5 15 15 A100 1.1 9.6 32.76 11.6 25 252.5 15 15 A150 1.1 14.4 49.13 17.4 30.3 15 15 A200 1 14.2 49.13 17.4 32.7 36.3 22 25 17 20		No Heat					10	15/15	I			10	15/15	I
A100 1 9.6 32.75 11.6 25.25 — 15 16 — A120 1 9.6 32.75 11.6 25.2 226.25 — 15 15 — A120 1 11.2 38.21 13.6 27 30.30 — 17 20 — A200 1 11.2 38.21 13.4 40.4 40.40 — 17 20 — A210 1 19.2 66.5 23.2 40 40.40 — 20 30 — A210 1 11.2 66.5 23.2 40 40.40 — 30 30 — A210 1 19.2 66.5 23.2 40 40.40 — 30 30 — A210 1 1.6 8.2 20 20 — 11 11 A100 1 1.1 1.4 40.4 3		A06C	-	5.6	19.1	6.8	19	20/20	I	6	15		I	I
A110 1 96 32.75 11.6 25 25/25 — 15 15 — A120 1 11.2 38.75 11.6 27 30/30 — 15 15 — A200 1 14.1 38.21 17.5 22 35/30 — 22 25 — A200 1 14.2 65.5 23.3 40 40/40 — 30 30 — A060 1 19.2 65.5 23.3 40 40/40 — 30 30 — A060 1 19.2 65.5 11.6 26 30/30 — 15 11 — — 11		A10D	1	9.6	32.75	11.6	25	25/25	Ι	15	15		I	1
A12D 11 3821 135 27 30/30 — 17 20 — A20D 1 144 4913 174 32 30/30 — 17 20 — A20D 1 144 4913 174 32 30/30 — 30 30 — A20D 1 192 655 23.3 40 40/40 — 30 30 — A06D 1 1 6.6 23.2 116 6.8 20 20 30 30 — A06D 1 1 6.8 20 20/20 — 30 10 — A01D 1 5.6 19.1 6.8 20 20/20 — 30 10 — A10D 1 1 4.4 4.813 17.4 33 30/30 — 15 1 A10D 1 1 2 2	MUSCOO	A11D	1	9.6	32.75	11.6	25	25/25	Ι	15	15		I	1
A15D 11 44413 17.4 32 36/56 — 22 25 — A20D 1 142 64813 17.4 32 36/56 — 22 25 — A21D 1 192 66.5 23.23 40 40/40 — 30 30 — NoHear — — — — — — — — — 11 A21D 11 192 66.5 23.75 11.6 26 30/30 — 15 15 — A10D 1 96 32.75 11.6 26 30/30 — 15 16 — A11D 11 11.2 38.21 11.4 40.40 — 30 30 — A15D 1 14.4 49.13 17.4 33 36/30 — 17 17 A15D 1 14.5 2 23.2	COSODINI	A12D	1	11.2	38.21	13.5	27	30/30	I	17	20		Ι	1
A20D 1 192 66.5 23.3 40 4040 — 30 30 — A21D 1 192 66.5 23.2 40 4040 — 30 30 — No Heat —		A15D	1	14.4	49.13	17.4	32	32/32		22	25		1	1
A21D 1 192 66.5 23.2 40 4040 — 30 30 — Nobleat — <td></td> <td>A20D</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>		A20D	1	19.2	65.5	23.3	40	40/40	I	30	30		I	1
No Heat — </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>I</td> <td>30</td> <td>30</td> <td></td> <td>Ι</td> <td>1</td>		A21D	1	19.2	65.5	23.2	40	40/40	I	30	30		Ι	1
A\tilde{O} 1 5\tilde{G} 19.1 6\tilde{B} 20 20/20 — 9 15 — A\tilde{O} 1 5\tilde{G} 32.75 11\tilde{G} 26 30/30 — 15 15 — A\tilde{D} 1 1 32.75 11\tilde{G} 26 30/30 — 15 15 — A\tilde{D} 1 1 11.2 38.21 11\tilde{G} 26 30/30 — 17 20 — A\tilde{D} 1 1 1 1 23.3 41 40/40 — 17 20 — A\tilde{D} 1 1 1 1 2 23.2 41 40/40 — 17 20 — A\tilde{D} 1 1 1 1 4 4 40/40 — 17 20 — 11 A\tilde{D} 1 1 1 1 1 <t< td=""><td></td><td>No Heat</td><td></td><td>1</td><td></td><td> </td><td>11</td><td>15/15</td><td>ı</td><td>1</td><td>I</td><td>11</td><td>15/15</td><td>1</td></t<>		No Heat		1			11	15/15	ı	1	I	11	15/15	1
A10D 1 9.6 32.75 11.6 26 30.30 — 15 15 — A11D 1 9.6 32.75 11.6 26 30.30 — 15 15 — A12D 1 11.2 38.27 13.4 33 30.30 — 17 20 — A20D 1 14.4 49.13 17.4 33 30.30 — 17 20 — A20D 1 19.2 66.5 23.2 41 40.40 — 30 30 — A20D 1 19.2 66.5 23.2 41 40.40 — 30 30 — A10D 1 19.2 66.5 23.2 41 40.40 — 30 30 — 11 A10D 1 1 9.6 32.75 11.6 26 30.30 — 15 1 1 A10D <td></td> <td>A06D</td> <td>1</td> <td>5.6</td> <td>19.1</td> <td>6.8</td> <td>20</td> <td>20/20</td> <td>1</td> <td>6</td> <td>15</td> <td></td> <td>1</td> <td>1</td>		A06D	1	5.6	19.1	6.8	20	20/20	1	6	15		1	1
A11D 1 9.6 32.75 11.6 26 30/30 — 15 16 26 A12D 1 11.2 38.275 11.6 28 30/30 — 17 20 A50D 1 14.4 49.13 17.4 33 36/35 — 22 25 25 A20D 1 19.2 66.5 23.3 41 40/40 — 30 30 — A21D 1 19.2 66.5 23.3 41 40/40 — 30 30 — A06D 1 19.2 66.5 23.2 41 40/40 — 30 30 — A1DD 1 5.6 19.1 6.8 20 20/20 — 11 11 A1DD 1 5.6 32.75 11.6 26 30/30 — 17 20 20 A2DD 1 14.4 49.13		A10D	_	9.6	32.75	11.6	26	30/30	I	15	15		I	I
A12D 1 11.2 38.21 13.5 28 30/30 — 17 20 — A20D 1 14.4 49.13 17.4 33 30.5 — 22 25 — A20D 1 19.2 65.5 23.3 41 40/40 — 30 30 — A21D 1 19.2 65.5 23.2 41 40/40 — 30 30 — A00D 1 19.2 65.5 23.2 41 40/40 — 30 30 — A10D 1 19.2 65.5 11.6 26 30/30 — 15 1 A11D 1 11.2 38.21 11.6 26 30/30 — 15 1 A12D 1 1 11.2 38.21 11.4 40/40 — 30 9 — 11 A12D 1 1 26 <td>C.042 D.M</td> <td>A11D</td> <td>_</td> <td>9.6</td> <td>32.75</td> <td>11.6</td> <td>26</td> <td>30/30</td> <td>I</td> <td>15</td> <td>15</td> <td>I</td> <td>I</td> <td>I</td>	C.042 D.M	A11D	_	9.6	32.75	11.6	26	30/30	I	15	15	I	I	I
A15D 1 144 49.13 17.4 33 36/35 — 22 25 — A20D 1 19.2 66.5 23.3 41 40/40 — 20 25 2.5 — A2DD 1 19.2 66.5 23.3 41 40/40 — 30 30 — No Heat — — — — — — — — 11 A10D 1 5.6 19.1 6.8 20 20/20 — 9 15 — — 11 A10D 1 5.6 19.1 6.8 20 20/20 — 9 15 — — 11 A10D 1 6.6 32.75 11.6 26 30/30 — 15 1 — — 11 A10D 1 1.4 49.13 17.4 33 36/35 — 15 15 <td></td> <td>A12D</td> <td>_</td> <td>11.2</td> <td>38.21</td> <td>13.5</td> <td>28</td> <td>30/30</td> <td>I</td> <td>17</td> <td>20</td> <td></td> <td>I</td> <td>I</td>		A12D	_	11.2	38.21	13.5	28	30/30	I	17	20		I	I
A2DD 1 192 66.5 23.3 41 40,40 — 30 30 — A2ID 1 19.2 66.5 23.2 41 40,40 — 30 30 — No Heat — — 1 15/15 — 9 15 — 11 A1DD 1 56 32.75 11.6 26 30/30 — 16 1 1 A1DD 1 9.6 32.75 11.6 26 30/30 — 15 15 — 11 A1DD 1 9.6 32.75 11.6 26 30/30 — 15 16 — 11 11 11 20 30/30 — 15 16 — 11 11 11 11 40/40 — 17 20 — 11 11 11 11 40/40 — 14 12 11 14 40/40		A15D	_	14.4	49.13	17.4	33	35/35	I	22	25	I	I	I
A21D 1 192 66.5 23.2 41 40/40 — 30 30 — No Heat — <td></td> <td>A20D</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>I</td> <td>I</td>		A20D	_	19.2	65.5	23.3	41	40/40	I	30	30	I	I	I
No Heat — </td <td></td> <td>A21D</td> <td>_</td> <td>19.2</td> <td>65.5</td> <td>23.2</td> <td>41</td> <td>40/40</td> <td>I</td> <td>30</td> <td>30</td> <td></td> <td>I</td> <td>I</td>		A21D	_	19.2	65.5	23.2	41	40/40	I	30	30		I	I
A06D 1 5.6 19.1 6.8 20 20/20 — 9 15 — A10D 1 9.6 32.75 11.6 26 30/30 — 15 15 — A11D 1 9.6 32.75 11.6 26 30/30 — 15 15 — A12D 1 11.2 38.21 11.4 28 30/30 — 17 20 — A20D 1 14.4 49.13 17.4 33 30/30 — 17 20 — A20D 1 14.4 49.13 17.4 45/45 — 22 25 — — — 17 A21D 1 19.2 65.5 23.2 41 40/40 — 30 9 — 14 A00D 1 5.6 19.1 6.8 23.2 25/25 — — 14 14		No Heat	Ι	1	-		11	15/15		1	I	11	15/15	I
A10D 1 9.6 32.75 11.6 26 30/30 — 15 15 15 — A11D 1 9.6 32.75 11.6 26 30/30 — 15 15 15 — A12D 1 11.2 38.21 13.5 28 30/30 — 17 20 — A20D 1 14.4 49.13 17.4 33 36/35 — 22 25 — A20D 1 19.2 65.5 23.3 41 46/40 — 30 30 — A21D 1 19.2 65.5 23.2 41 40/40 — 30 30 — A21D 1 19.2 65.6 19.1 6.8 23 25/25 — — 14 40/40 — 9 15 — 14 14 40/40 — 9 15 — 14 14		A06D	1	5.6	19.1	6.8	20	20/20		6	15		1	I
A11D 1 9.6 32.75 11.6 26 30/30 — 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 46/45 — 30 30 — No Heat — — — — — 14 40/40 — 90 15 A06D 1 5.6 19.5 11.6 29 30/30 — — 14 A06D 1 9.6 32.75 11.6 29 30/30 — 15 14 A10D 1 9.6 32.75 11.6 29 30/30 — 15 — A10D 1 11.2 38.21 13.5 31<		A10D	_	9.6	32.75	11.6	26	30/30	I	15	15		Ι	I
A12D 1 11.2 38.21 13.5 28 30/30 — 17 20 — A15D 1 14.4 49.13 17.4 33 36/35 — 22 25 — A20D 1 19.2 66.5 23.3 41 46/45 — 30 30 — A21D 1 19.2 66.5 23.2 41 40/40 — 30 30 — No Heat — — — — — 14 40/40 — 9 15 14 A06D 1 5.6 19.1 6.8 23 25/25 — 9 15 — 14 A00D 1 9.6 32.75 11.6 29 30/30 — 15 — 14 A1D 1 1.2 38.27 11.6 29 30/30 — 15 15 — 14	C048DM	A11D	_	9.6	32.75	11.6	26	30/30	I	15	15		I	I
A15D 1 14.4 49.13 17.4 33 35/35 — 22 25 — A20D 1 19.2 65.5 23.3 41 45/45 — 22 25 — A21D 1 65.5 23.3 41 45/45 — 30 30 — No Heat — <td></td> <td>A12D</td> <td>_</td> <td>11.2</td> <td>38.21</td> <td>13.5</td> <td>28</td> <td>30/30</td> <td>I</td> <td>17</td> <td>20</td> <td>I</td> <td>I</td> <td>I</td>		A12D	_	11.2	38.21	13.5	28	30/30	I	17	20	I	I	I
A20D 1 19.2 65.5 23.3 41 45/45 — 30 30 — A21D 1 19.2 65.5 23.2 41 40/40 — 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>33</td> <td>35/35</td> <td>I</td> <td>22</td> <td>25</td> <td>I</td> <td>I</td> <td>I</td>		A15D	_	14.4	49.13	17.4	33	35/35	I	22	25	I	I	I
A21D 1 19.2 65.5 23.2 41 40/40 — 30 30 — No Heat — </td <td></td> <td>A20D</td> <td>-</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>41</td> <td>45/45</td> <td>I</td> <td>30</td> <td>30</td> <td>I</td> <td>I</td> <td>I</td>		A20D	-	19.2	65.5	23.3	41	45/45	I	30	30	I	I	I
No Heat — </td <td></td> <td>A21D</td> <td>-</td> <td>19.2</td> <td>65.5</td> <td>23.2</td> <td>41</td> <td>40/40</td> <td>I</td> <td>30</td> <td>30</td> <td>I</td> <td>I</td> <td>I</td>		A21D	-	19.2	65.5	23.2	41	40/40	I	30	30	I	I	I
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 35/35 — 17 20 — 17 20 — 17 20 — 17 20 — — 17 20 — — 18 — — 18 — — 18 — — — — — — — — — — — 1 — — 1 1 2 2 2 — — 1 1 — 1 1 1 2 2 2 2 — 1 1		No Heat	I	1	1	I	14	20/20	I	1	I	41	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 — — A21D 1 19.2 65.5 23.3 44 45/45 — 30 30 — — No Heat — — — — — — 17 20/25 — — 17 A41D —		A06D	-	5.6	19.1	8.9	23	25/25	I	6	15	I	I	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 — — — — — 17 20/25 — 17 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 — A20D 1 19.2 65.5 23.3 47 50/50 — 22 25 — A20D 1 22 25		A10D	_	9.6	32.75	11.6	59	30/30	I	15	15	I	I	1
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 — — — 17 20/25 — 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 — A20D 1 19.2 65.5 23.3 47 50/50 — 22 25 — A20D 1 24 81.88 28.9 54 60/60 — 30 9 —	COGODM	A11D	_	9.6	32.75	11.6	29	30/30	I	15	15		I	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 — — — 44 45/45 — 30 30 — — A15D — — — — — — 17 20/25 — — — 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 — A24D 1 24 81.88 28.9 54 60/60 — 37 40 —		A12D	_	11.2	38.21	13.5	31	35/35	I	17	20		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 — — — — 17 20/25 — — 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 — A24D 1 24 81.88 28.9 54 60/60 — 37 40 —		A15D	-	14.4	49.13	17.4	36	40/40	I	22	25	I	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 — 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 —		A20D	-	19.2	65.5	23.3	44	45/45	I	30	30	I	I	I
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 — A24D 1 24 81.88 28.9 54 60/60 — 37 40 —		A21D	-	19.2	65.5	23.2	44	45/45	1	30	30		I	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	ı	I			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 —	C072DM	A15D	_	14.4	49.13	17.4	39	40/40	I	22	25		I	I
1 24 81.88 28.9 54 60/60 — 37	200	A20D	-	19.2	65.5	23.3	47	20/20	I	30	30	1	I	I
		A24D	_	24	81.88	28.9	54	09/09		37	40		I	I

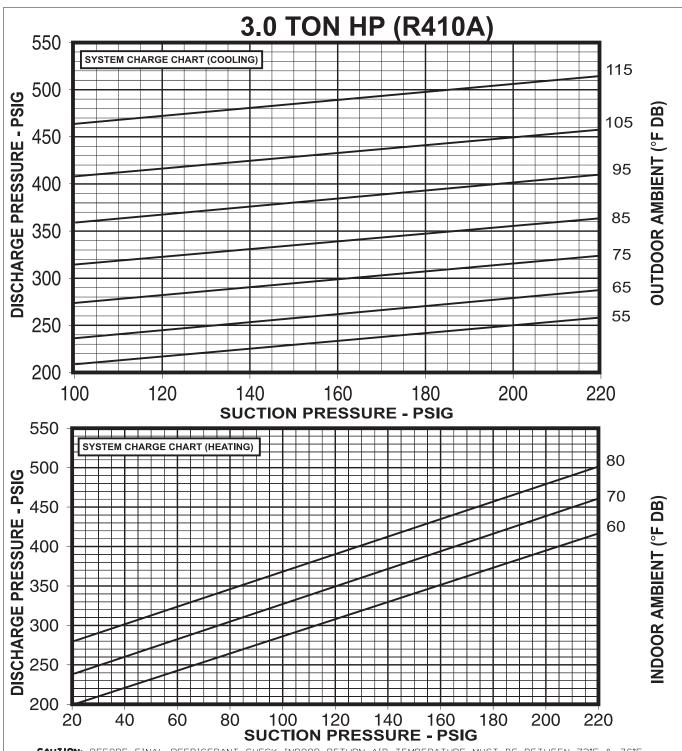
PPLICATION	Separate Power Supply For Both Unit And Heater Kit	Heat Pump	Over Current Over Current Protective Device Size	208/240Ý Min/Max Min/Max @280 V @ 240 V	18/18 20/25 20/25			1	1				22/22 25/30 25/30					1	1	1	22/22 25/35 25/35	1	1	1					26/26 30/40 30/40	1	1	1	1	1		
HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	Power Supply For	Heater Kit	Max. Fuse Min. Size An		-	15/20	25/30	25/30	30/35	40/45	20/60	20/60		15/20	25/30	25/30	30/35	40/45	20/60	09/09		15/20	25/30	25/30	30/35	40/45	20/60	20/60		15/20	25/30	25/30	30/35	40/45	20/60	
HARACTEF	Separate	Heate	Min. Ckt. Ampacity	208/240Ý	1	15/17	25/29	25/29	30/34	38/44	20/28	50/58	1	15/17	25/29	25/29	30/34	38/44	20/28	50/58	1	15/17	25/29	25/29	30/34	38/44	20/28	50/58	1	15/17	25/29	25/29	30/34	38/44	50/58	
R KITS CI			Over Current Protective Device Size	Min/Max @ 240 V	20/25	40/40	20/20	20/20	09/09	70/70	80/80	80/80	25/30	40/45	09/09	09/09	09/09	70/70	06/06	06/06	25/35	40/45	09/09	09/09	09/09	02/02	06/06	06/06	30/40	45/50	09/09	09/09	70/70	80/80	06/06	
IC HEATE		Heat Pump		Min/Max @ 208 V	20/25	32/32	45/45	45/45	20/20	09/09	02/02	70/70	25/30	40/45	20/20	20/20	09/09	09/09	80/80	80/80	25/35	40/45	20/20	20/20	09/09	02/02	80/80	80/80	30/40	45/50	09/09	09/09	09/09	70/70	80/80	
Y ELECTR	er Kit		Unit Min. Ckt Ampacity @	208/240V	18/18	33/32	43/47	43/47	48/52	29/92	92/89	92/89	22/22	37/39	47/51	47/51	52/56	99/09	72/80	72/80	22/22	37/39	47/51	47/51	52/56	99/09	72/80	72/80	26/26	41/43	51/55	51/55	26/60	64/70	76/84	
AUXILIAR	nit And Heat		Heater Amp. @			11.7/13.5	20/23.1	20/23.1	23.4/27	30.1/34.7	40/46.3	40/46.3		11.7/13.5	20/23.1	20/23.1	23.4/27	30.1/34.7	40/46.3	40/46.3		11.7/13.5	20/23.1	20/23.1	23.4/27	30.1/34.7	40/46.3	40/46.3	ı	11.7/13.5	20/23.1	20/23.1	23.4/27	30.1/34.7	40/46.3	
	y For Both U		Heater KBTU/Hr @	208/240 V	1	14.33/19.1	24.56/32.75	24.56/32.75	28.66/38.21	36.84/49.13	49.13/65.5	49.13/65.5	1	14.33/19.1	24.56/32.75	24.56/32.75	28.66/.38.21	36.84/49.13	49.13/65.5	49.13/65.5		14.33/19.1	24.56/32.75	24.56/32.75	28.66/38.21	36.84/49.13	49.13/65.5	49.13/65.5		14.33/19.1	24.56/32.75	24.56/32.75	28.66/38.21	36.84/49.13	49.13/65.5	
208/240 VOLT, THREE PHASE, 60	Single Power Supply For Both Unit And Heater Kit	Heater Kit	Rated Heater kW @		1	4.2/5.6	7.2/9.6	7.2/9.6		10.8/14.4	14.4/19.2	14.4/19.2		4.2/5.6	7.2/9.6	7.2/9.6	8.4/11.2	10.8/14.4	14.4/19.2	14.4/19.2		4.2/5.6	7.2/9.6	7.2/9.6	8.4/11.2	10.8/14.4	14.4/19.2	14.4/19.2		4.2/5.6	7.2/9.6	7.2/9.6	8.4/11.2	10.8/14.4	14.4/19.2	
O VOLT, T	Single		No. of Sequence		1	1	1		_	1	1	1	I	-	1	1	1	_	_	-		-	-	_	1	1	1	1		-	-	-	-	_	-	
208/24			RXJJ- Heater Kit	Nominal kW	No Heat	A06C	A10C	A11C	A12C	A15C	A20C	A21C	No Heat	A06C	A10C	A11C	A12C	A15C	A20C	A21C	No Heat	A06C	A10C	A11C	A12C	A15C	A20C	A21C	No Heat	A06C	A10C	A11C	A12C	A15C	A20C	
			Unit Model Number	RJPL-				103800	-0030CF							170707	00 44 00 44 00							7070	C0490L						1	0000	CUBUCL	<u> </u>		

	208/5	40 VOLT, 1	208/240 VOLT, THREE PHASE, 60		AUXILIAR	HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	C HEATE	R KITS CI	HARACTEF	RISTICS AN	D APPLIC	ATION	
		Sing	Single Power Supply For Both Unit And Heater Kit		Jnit And Heat	er Kit			Separate	Separate Power Supply For Both Unit And Heater Kit	y For Both U	nit And Heat	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	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	208/240V	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	I	1	18/18	25/25	25/25	1	1	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			I
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30		1	I
MOSCO	A11C	1	7.2/9.6	24.56/32.75	20/23.1	43/47	45/45	20/20	25/29	25/30			I
NI OSCON	A12C	1	8.4/11.2	28.66/38.21	23.4/27	48/52	20/20	09/09	30/34	30/35			I
	A15C	1	10.8/14.4	36.84/49.13	30.1/34.7	29/92	09/09	70/70	38/44	40/45			I
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	02/02	80/80	20/28	20/60			I
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	92/89	70/70	80/80	50/58	20/60			I
	No Heat	1	1	I	1	22/22	30/32	30/35	1	1	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		I	I
	A10C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	20/20	09/09	25/29	25/30			I
MUCVO	A11C	1	7.2/9.6	24.56/32.75	20/23.1	47/51	50/50	09/09	25/29	25/30			
	A12C	1	8.4/11.2	28.66/.38.21	23.4/27	52/56	09/09	09/09	30/34	30/35			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			
	A20C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	20/60			
	A21C	1	14.4/19.2	49.13/65.5	40/46.3	72/80	80/80	06/06	50/58	20/60	1		Ι
	No Heat		I	1		23/23	30/35	30/35	1	1	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			I
	A10C	7	7.2/9.6	24.56/32.75	20/23.1	48/52	20/20	09/09	25/29	25/30		Ι	I
C048CM	A11C	_	7.2/9.6	24.56/32.75	20/23.1	48/52	50/50	09/09	25/29	25/30	I	I	I
	A12C	-	8.4/11.2	28.66/38.21	23.4/27	53/57	09/09	09/09	30/34	30/35			I
	A15C	_	10.8/14.4	36.84/49.13	30.1/34.7	61/67	20/02	70/70	38/44	40/45		I	
	A20C	-	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	20/28	20/60		I	I
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	73/81	80/80	06/06	20/28	20/60	I	I	I
	No Heat		1	1		26/26	30/40	30/40	1	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
	A10C	_	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	1	I
MOOSO	A11C	_	7.2/9.6	24.56/32.75	20/23.1	51/55	09/09	09/09	25/29	25/30	I	I	I
	A12C	-	8.4/11.2	28.66/38.21	23.4/27	26/60	09/09	70/70	30/34	30/35	I	1	1
	A15C	-	10.8/14.4	36.84/49.13	30.1/34.7	64/70	02/02	80/80	38/44	40/45	I	1	I
	A20C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	50/58	20/60		ı	I
	A21C	-	14.4/19.2	49.13/65.5	40/46.3	76/84	80/80	06/06	20/28	20/60			I

RXJJ RXJJ Heater Nominal A100 A110 A1		480	VOLT. THE	480 VOLT. THREE PHASE. 60 HZ		IXILIARY	ELECTRIC	HEATER	KITS CHA	RACTERIS	STICS AND	APPLICAT	NOI.	
FRAJU-			Singl	le Power Supp	1 ∓ 1	nit And Heat	er Kit			Separate	Power Supp	ly For Both U	nit And Hea	ter Kit
Note Redict Healer Healer Healer Healer Manual Manua	Γ			Heater Kit				Heat Pumb		Heat	er Kit		leat Pump	
Nominal kW Sieps 480 V	Unit Model Number				Heater KBTU/Hr	Heater Amp. @	Unit Min. Ckt Ampacity @		urrent Jevice Size	Min. Ckt. Ampacity	Max. Fuse Size	Min. Circuit Ampacity	Over C Protective	urrent Device Size
No Heat — </th <th>RJPL-</th> <th></th> <th></th> <th></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	480V		Min/Max @ 480 V	480V	480V	480V	Min/Max @480 V	Min/Max @ 480 V
AMORD 1 56 19.1 6.8 19 20/20 — 9 15 — AMORD 1 9.6 32.75 11.6 25 25/25 — 15 15 — AM1D 1 9.6 32.75 11.6 25 25/25 — 15 15 — AM1D 1 11.2 38.21 11.6 25 25/25 — 15 15 — AM1D 1 18.2 68.5 23.3 40 40/40 — 30 30 — AM1D 1 18.2 68.5 23.3 40 40/40 — 30 30 — AM1D 1 18.2 68.5 23.3 40 40/40 — 30 30 — AM1D 1 18.2 68.5 23.3 40 40/40 — 10 11 10 11 10 11 11 <td></td> <td>No Heat</td> <td></td> <td>1</td> <td> </td> <td></td> <td>10</td> <td>15/15</td> <td>ı</td> <td> </td> <td> </td> <td>10</td> <td>15/15</td> <td>I</td>		No Heat		1			10	15/15	ı			10	15/15	I
A10D 1 96 32.75 116 25 25/25 — 15 15 — A11D 1 96 32.75 116 25 25/25 — 15 — A15D 1 11.2 38.21 13.5 27 30/30 — 17 20 A20D 1 14.4 49.13 17.4 32 35/35 — 17 20 — A20D 1 19.2 66.5 23.3 40 40/40 — 30 30 — A20D 1 19.2 66.5 23.3 40 40/40 — 30 30 — A0D 1 19.2 66.5 23.3 40 40/40 — 10 1		A06D	1	5.6	19.1	6.8	19	20/20	Ι	6	15		I	I
A11D 1 96 32.75 116 25 25/25 — 15 16 — A12D 1 11.2 38.75 11.4 32.7 36.58 — 17 20 — A50D 1 14.4 49.13 17.4 32.3 40 4040 — 27 25.0 — A21D 1 19.2 65.5 23.3 40 4040 — 30 30 — A21D 1 19.2 65.5 23.3 40 4040 — 30 30 — A21D 1 19.2 65.6 11.6 25 25.25 — 15 10 A11D 1 19.2 66.5 11.6 25 25.25 — 15 10 — 10 10 — 10 10 10 10 10 10 10 10 10 10 10 10 10		A10D	1	9.6	32.75	11.6	25	25/25	1	15	15		I	I
A12D 1 11.2 38.21 13.5 27 30.30 — 17 20 — A2DD 1 14.4 49.13 17.4 30 90 30 90 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 — No Heat — — 1 9.6 32.75 11.6 25 25/25 — 15 15 — A1DD 1 9.6 32.75 11.6 25 25/25 — 15 10 1 A1DD 1 9.6 32.75 11.6 25 25/25 — 15 1 — 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	וחשפטט	A11D	1	9.6	32.75	11.6	25	25/25	1	15	15	1	1	1
A15D 1 144 4813 174 32 36/35 — 22 25 — A20D 1 192 66.55 23.33 40 40/40 — 20 20 — — — 10 A2D — 20 30 — <td>CUSODE</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>Ι</td> <td>17</td> <td>20</td> <td></td> <td>I</td> <td>I</td>	CUSODE	A12D	1	11.2	38.21	13.5	27	30/30	Ι	17	20		I	I
A20D 1 192 665 23.3 40 4040 — 30 30 — No Heart 1 192 66.5 23.3 40 4040 — 30 30 — No Heart — — — — — — — — — A10D 1 6.6 19.1 6.8 19 20/20 — 9 15 — A10D 1 6.6 13.75 11.6 25 26/25 — 15 16 — A10D 1 6.6 32.75 11.6 25 26/25 — 15 16 — A20D 1 1.2 32.75 11.4 32 36/35 — 22 25 —		A15D	1	14.4	49.13	17.4	32	32/32	1	22	25		I	ı
AZID 192 66.5 23.3 40 4040 — 30 30 — Nobelat — <td></td> <td>A20D</td> <td>1</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>40</td> <td>40/40</td> <td>1</td> <td>30</td> <td>30</td> <td>1</td> <td>1</td> <td>1</td>		A20D	1	19.2	65.5	23.3	40	40/40	1	30	30	1	1	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>Ι</td> <td>30</td> <td>30</td> <td></td> <td>I</td> <td>I</td>		A21D	1	19.2	65.5	23.3	40	40/40	Ι	30	30		I	I
A06D 1 5.6 19.1 6.8 19 20/20 — 9 15 — A10D 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 — A12D 1 11.2 38.21 13.5 27 30/30 — 17 20 — A12D 1 11.2 38.21 17.4 32 36/35 — 17 20 — 17 20 — 17 20 — 17 20 — 17 20 — 17 20 — 17 20 — 17 10 11 10		No Heat		1	1		10	15/15	Ι			10	15/15	I
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 38.21 13.5 27 30/30 — 17 20 — A15D 1 14.4 49.13 17.4 32 36/35 — 17 20 — A20D 1 19.2 65.5 23.3 40 40/40 — 25 25 — 1 A21D 1 19.2 65.5 23.3 40 40/40 — 30 30 — 1 A21D 1 19.2 65.5 23.3 40 40/40 — 30 30 — 11 A60D 1 1 1.6 2 20 20 25 25 1 — 1 <		A06D	1	5.6	19.1	6.8	19	20/20	1	6	15		I	I
A11D 1 9.6 32.75 11.6 25 25/25 — 15 15 — A12D 1 11.2 38.21 13.5 27 30.30 — 17 20 — A2D 1 11.2 38.21 13.5 27 30.30 — 22 25 — A2D 400 1 19.2 66.5 23.3 40 40.40 — 30 30 — A2D 1 19.2 66.5 23.3 40 40.40 — 30 30 — A2D 1 1 19.2 66.5 23.3 40 40.40 — 30 30 — A0D 1 1 19.1 6.8 20 20,20 — 11 1 A0D 1 1 1.6 8 20 20,20 — 15 — 11 A1D 1 1<		A10D	1	9.6	32.75	11.6	25	25/25	Ι	15	15	1	I	I
A12D 1 1.2 38.21 13.5 27 30/30 — 17 20 — A15D 1 1.4 49.13 17.4 32 36/35 — 22 25 — A20D 1 19.2 66.5 23.3 40 40/40 — 20 25 — A21D 1 19.2 66.5 23.3 40 40/40 — 30 30 — A06D 1 19.2 66.5 23.3 40 40/40 — — — 11 11 15/15 — <		A11D	_	9.6	32.75	11.6	25	25/25	I	15	15	I		I
A15D 1 144 4913 174 32 36/35 — 22 25 — A20D 1 192 66.5 23.3 40 40/40 — 30 30 — A20D 1 192 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
A20D 1 192 66.5 23.3 40 40/40 — 30 30 — A21D 1 19.2 66.5 23.3 40 40/40 — 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>32/32</td> <td>I</td> <td>22</td> <td>25</td> <td>I</td> <td>I</td> <td>I</td>		A15D	_	14.4	49.13	17.4	32	32/32	I	22	25	I	I	I
A21D 1 19.2 65.5 23.3 40 40/40 — 30 30 — No Heat — </td <td></td> <td>A20D</td> <td>_</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>I</td> <td> </td> <td>I</td>		A20D	_	19.2	65.5	23.3	40	40/40	I	30	30	I		I
No Heat — </td <td></td> <td>A21D</td> <td>_</td> <td>19.2</td> <td>65.5</td> <td>23.3</td> <td>40</td> <td>40/40</td> <td>Ι</td> <td>30</td> <td>30</td> <td> </td> <td>I</td> <td>I</td>		A21D	_	19.2	65.5	23.3	40	40/40	Ι	30	30		I	I
A06D 1 5.6 19.1 6.8 20 20/20 — 9 15 — A10D 1 9.6 32.75 11.6 26 30/30 — 15 15 — A11D 1 9.6 32.75 11.6 26 30/30 — 15 15 — A12D 1 11.2 38.21 11.6 26 30/30 — 17 20 — A15D 1 11.2 38.21 11.6 28 30/30 — 17 20 — A21D 1 14.4 49.13 17.4 33 35/35 — 17 20 — — — 1 1 20 — 1 1 20 — 1 1 2 25 25 25 — 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td>No Heat</td> <td> </td> <td>1</td> <td>1</td> <td></td> <td>11</td> <td>15/15</td> <td>Ι</td> <td>1</td> <td> </td> <td>11</td> <td>15/15</td> <td>1</td>		No Heat		1	1		11	15/15	Ι	1		11	15/15	1
A10D 1 9.6 32.75 11.6 26 30/30 — 15 15 15 — A11D 1 9.6 32.75 11.6 26 30/30 — 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 — 22 25 5 — — — — — — — — 22 25 5 — — — — — — — — — — — — — — 13 15/20 — — — — — — — — — — — — — <td< td=""><td></td><td>A06D</td><td>_</td><td>5.6</td><td>19.1</td><td>6.8</td><td>20</td><td>20/20</td><td>1</td><td>6</td><td>15</td><td>1</td><td>I</td><td>I</td></td<>		A06D	_	5.6	19.1	6.8	20	20/20	1	6	15	1	I	I
A11D 1 9.6 32.75 11.6 26 30/30 — 15 15 — A12D 1 11.2 38.21 13.5 28 30/30 — 17 20 — A15D 1 14.4 49.13 17.4 33 35/35 — 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 — A21D 1 19.2 65.5 23.3 41 40/40 — 30 30 — — — — — — — — — — — — — — 13 40/40 — 30 9 — — — — — — — — — — — —		A10D	1	9.6	32.75	11.6	26	30/30	1	15	15	1	I	1
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 — — 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 — — — — — 13 16/40 — 30 30 — — — — — — 13 16/40 — 30 30 — 13 16/40 — 30 30 — 13 17 13 18 13 18 14 40/40 — 30 30 — 13 13 14 40/40 — 30 30 — 13 13 13 13 13 <	וחמאטט	A11D	1	9.6	32.75	11.6	26	30/30		15	15	1	I	
A15D 1 14.4 49.13 17.4 33 35/35 — 22 25 25 — A2D 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 — — — 13 1 40/40 — 30 30 —	100	A12D	_	11.2	38.21	13.5	28	30/30	I	17	20	1	I	I
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 — No Heat — </td <td></td> <td>A15D</td> <td>1</td> <td>14.4</td> <td>49.13</td> <td>17.4</td> <td>33</td> <td>35/32</td> <td> </td> <td>22</td> <td>25</td> <td> </td> <td> </td> <td> </td>		A15D	1	14.4	49.13	17.4	33	35/32		22	25			
A21D 1 19.2 65.5 23.3 41 40/40 — 30 30 — No Heat — </td <td></td> <td>A20D</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>I</td> <td>I</td>		A20D	_	19.2	65.5	23.3	41	40/40	I	30	30	I	I	I
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>1</td> <td>30</td> <td>30</td> <td>I</td> <td>I</td> <td>I</td>		A21D	_	19.2	65.5	23.3	41	40/40	1	30	30	I	I	I
A06D 1 5.6 19.1 6.8 22 25/25 — 9 15 — A10D 1 9.6 32.75 11.6 28 30/30 — 15 15 — A12D 1 1.2 38.21 11.6 28 30/30 — 15 15 — A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 — A15D 1 14.4 49.13 17.4 35 35/35 — 22 25 — A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 —		No Heat			1	-	13	15/20	1	1		13	15/20	1
A10D 1 9.6 32.75 11.6 28 30/30 — 15 15 — A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 — A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 — A15D 1 14.4 49.13 17.4 35 35/35 — 22 25 — A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 — A21D 1 19.2 65.5 23.3 43 45/45 — 30 30 —		A06D	_	5.6	19.1	8.9	22	25/25	I	6	15	I	I	I
A11D 1 9.6 32.75 11.6 28 30/30 — 15 15 — A12D 1 11.2 38.21 13.5 30 30/30 — 17 20 — A15D 1 14.4 49.13 17.4 35 35/35 — 22 25 — A20D 1 19.2 65.5 23.3 43 45/45 — 30 30 — A21D 1 19.2 65.5 23.3 43 45/45 — 30 30 —		A10D	_	9.6	32.75	11.6	28	30/30	I	15	15	1	I	I
A12D 1 11.2 38.21 13.5 30 30/30 — 17 A15D 1 14.4 49.13 17.4 35 35/35 — 22 A20D 1 19.2 65.5 23.3 43 45/45 — 30 A21D 1 19.2 65.5 23.3 43 45/45 — 30	וחספט	A11D	_	9.6	32.75	11.6	28	30/30	1	15	15	I	I	I
1 14.4 49.13 17.4 35 35/35 — 22 1 19.2 65.5 23.3 43 45/45 — 30 1 19.2 65.5 23.3 43 45/45 — 30	70000	A12D	_	11.2	38.21	13.5	30	30/30	1	17	20	I	I	I
1 19.2 65.5 23.3 43 45/45 — 30 1 19.2 65.5 23.3 43 45/45 — 30		A15D	_	14.4	49.13	17.4	35	35/32	I	22	25	I	1	I
1 19.2 65.5 23.3 43 45/45 — 30		A20D	_	19.2	65.5	23.3	43	45/45	I	30	30	I	1	I
		A21D	_	19.2	65.5	23.3	43	45/45	Ι	30	30	1	Ι	I

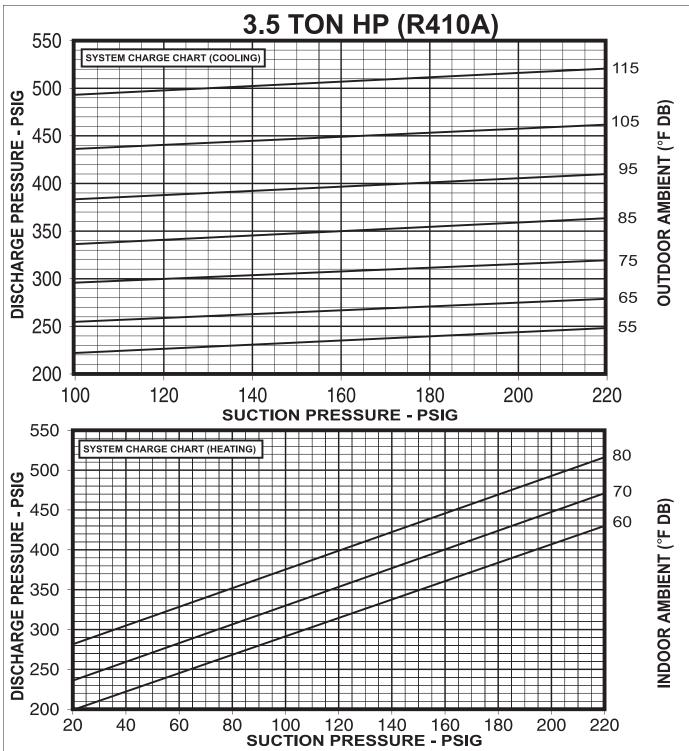
480 VOLT, THREE PHASE, 60 His	E, 60	HZ, AU	XILIARY I	ELECTRIC er Kit	HEAIER	KITS CHA	RACTERIS	FICS AND	Z, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	FION	or Kit
ower	Supply Fo	or Both Un	Single Power Supply For Both Unit And Heater Kit				Separate	Separate Power Supply For Both Unit And Heater Kit	y For Both U	Init And Hea	er Kit
Heater Kit					Heat Pump		Неат	Heater Kit		Heat Pump	
Rated Heater H	エト	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 Jevice Size
480 V 48	8	\ 0		480V	Min/Max @ 480 V	Min/Max @ 480 V	480V	480V	480V	Min/Max @480 V	Min/Max @ 480 V
	l '		ı	10	15/15	1	1	1	10	15/15	ı
5.6	~	19.1	8.9	19	20/20	1	6	15		I	I
9.6	2	.75	11.6	25	25/25	I	15	15	I	I	I
	ŽΠ	32.75	11.6	25	25/25	ı	15	15	I	ı	I
11.2 38	۱چچ	.21	13.5	27	30/30	I	17	20	I	I	1
14.4 49.	<u>ල</u>	49.13	17.4	32	35/35	I	22	25	I	1	I
	95.	5	23.3	40	40/40	I	30	30	Ι	Ι	I
19.2 65.5	55.	2	23.2	40	40/40		30	30	1	_	I
			1	11	15/15	1			11	15/15	
5.6 19.1	19.1		8.9	20	20/20	1	6	15	1		I
9.6 32.75	12.75		11.6	26	30/30	1	15	15	1	_	I
9.6 32.75	12.75		11.6	26	30/30	1	15	15		-	I
11.2 38.21	18.21		13.5	28	30/30	1	17	20		-	I
14.4 49.13	9.13		17.4	33	35/35	1	22	25		Ι	I
	55.5		23.3	41	40/40	1	30	30	I	1	I
19.2 65.5	65.5		23.2	41	40/40	I	30	30	I	I	I
			Ι	11	15/15	1	1	I	11	15/15	I
	19.1		8.9	20	20/20	I	6	15	I	I	I
9.6 32.75	32.7	2	11.6	26	30/30	ı	15	15	I	I	I
	2.5	ς,	11.6	56	30/30	ı	12	15		ı	I
14.4 49.13	9.1	- m	17.4	33	35/35	1 1	22	25	1 1	1 1	1 1
19.2 65.5	35.	10	23.3	41	45/45	ı	30	30	1	ı	I
19.2 65.5	35.	5	23.2	41	40/40	ı	30	30	Ι	1	I
	П		ı	13	15/20	I	1	I	13	15/20	I
5.6 19.1	19.1		8.9	22	25/25	I	6	15	1	ı	ı
9.6 32.7	12.7	2	11.6	28	30/30	1	15	15	1	1	I
9.6 32.7	12.7	2	11.6	28	30/30	1	15	15	1	-	I
11.2 38.21	ا ښ	21	13.5	30	35/35	1	17	20	1		I
	<u>ق</u>	13	17.4	35	40/40	I	22	25	I	1	I
	92	5.	23.3	43	45/45	I	30	30	I		I
19.2 65.5	7	ע	23.2	43	45/45	ı	30	30		I	I





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).

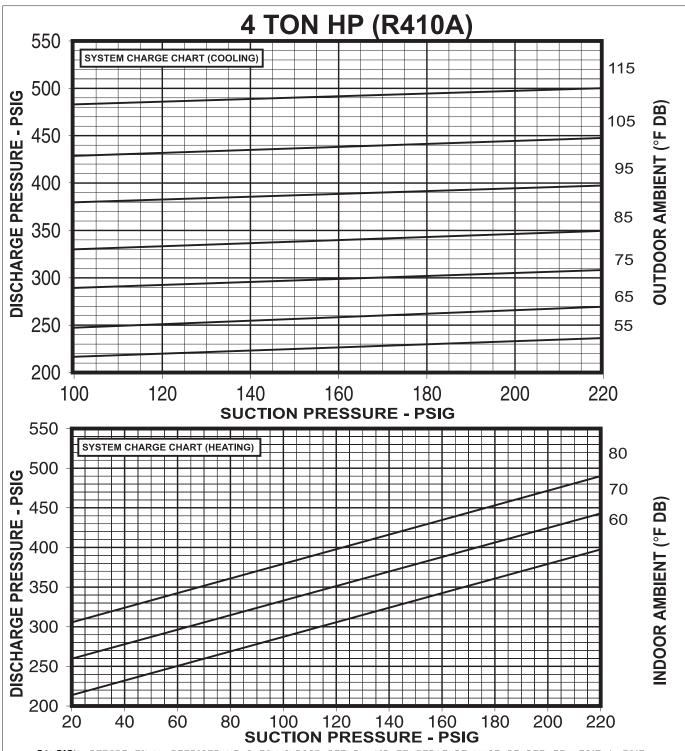
- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN "X" ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF "X" IS BELOW AMBIENT TEMPERATURE LINE, ADD 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.
- 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. 92-102380-02-00

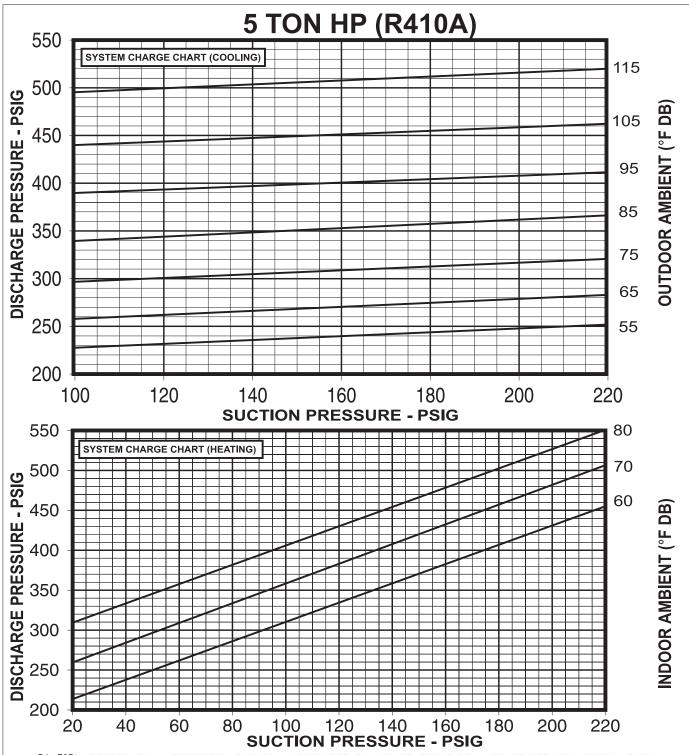
(13 & 14 SEER)



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

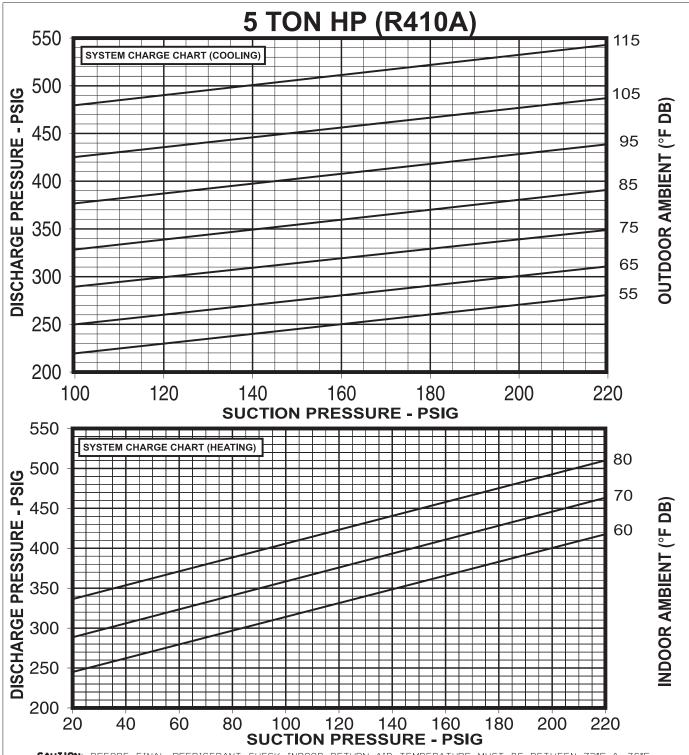
5 TON - 13 SEER



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).

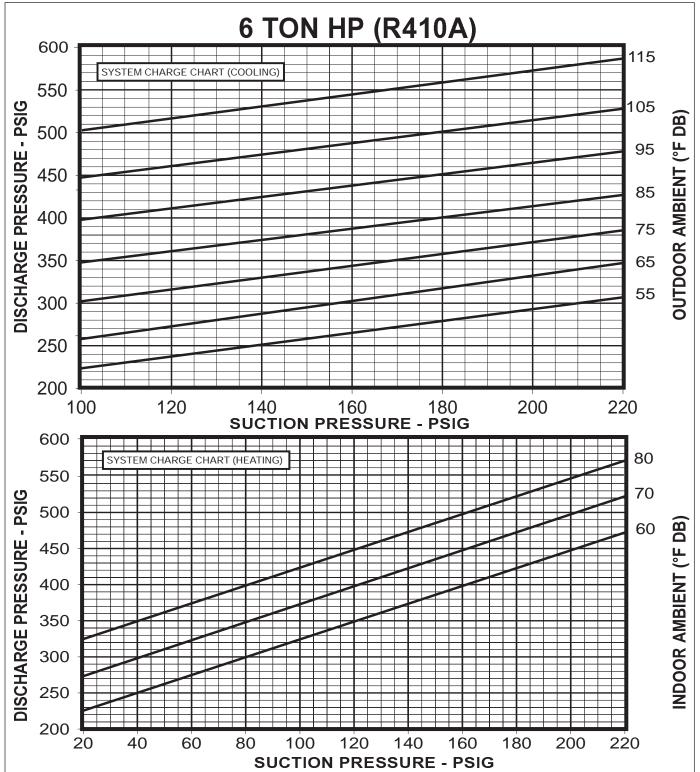
- 1. CONNECT PRESSURE GAUGES TO SUCTION AND DISCHARGE PORTS ON UNIT.
- 2. MEASURE AIR TEMPERATURE TO: (a) OUTDOOR COIL FOR COOLING, (b) INDOOR COIL FOR HEATING.
- 3. PLACE AN "X" ON THE APPROPRIATE CHART WHERE THE SUCTION AND DISCHARGE PRESSURES CROSS.
- 4. IF "X" IS BELOW AMBIENT TEMPERATURE LINE, ADD 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
Unit will not run	Power off or loose electrical connection Thermostat out of calibration-set too high Defective contactor	Check for correct voltage at compressor contactor in control box Reset Check for 24 volts at contactor coil - replace if contacts are open
	Blown fuses Transformer defective High pressure control open (if provided) Interconnecting low voltage wiring damaged	Replace fuses Check wiring-replace transformer Reset-also see high head pressure remedy- 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

56 CM 1010