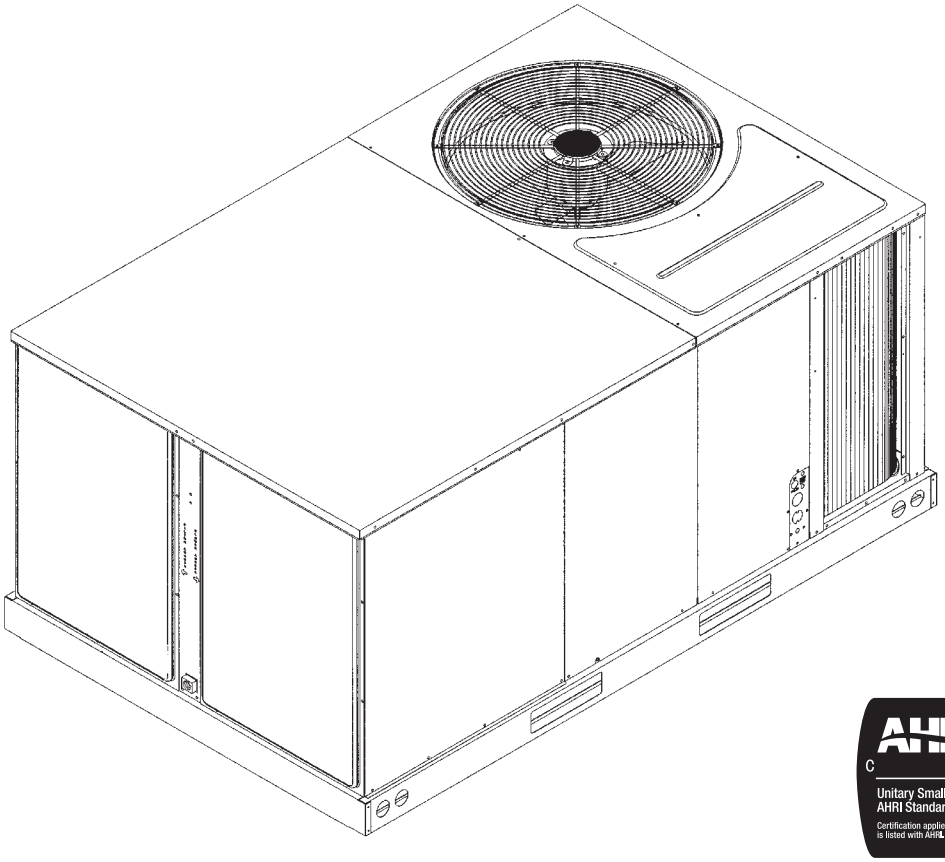
INSTALLATION INSTRUCTIONS

Package Air Conditioners Featuring Industry Standard R-410A Refrigerant

R-410A

RLNN 13 SEER (3-5 TONS) SERIES
RLPN 14 SEER (3-5 TONS) SERIES
RLQN 15 SEER (3-5 TONS) SERIES



ENERGY STAR

(14 & 15 SEER ONLY)

AHRI CERTIFIED®
www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION!

⚠ WARNING

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

c UL us LISTED

Accredited by the RvA

ABS Quality Evaluations, Inc. Management System Certification

ANAB ACCREDITED

ISO 9001:2008
Certificate Number: 30164

ISO 9001:2000

DO NOT DESTROY THIS MANUAL
PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE BY A SERVICEMAN

[ ] INDICATES METRIC CONVERSION

92-23577-130-02
SUPERSEDES 92-23577-130-01

I. TABLE OF CONTENTS

I. Table of Contents 2
II. Introduction 3
III. Checking Product Received 3
IV. Specifications 3
V. Equipment Protection 4
Vi. Installation 7
A. General 7
1. Pre-Installation Check Points 7
2. Location 7
B. Outside Slab Installation 7
C. Clearances 8
D. Rooftop Installation 8
VII. Ductwork 9
VIII. Filters 10
IX. Conversion Procedure 10
X. Condensate Drain 10
XI. Electrical Wiring 11
A. Power Wiring 11
B. Special Instructions for Power Wiring with Aluminum Conductors 11
C. Control Wiring 12
D. Internal Wiring 13
E. Grounding 13
F. Thermostat 13
XII. Indoor Air Flow Data 14
XIII. Units with ECM Blower Motors (RLQN-A060CV & DV Units Only) 14
XIV. Crankcase Heat 17
XV. Pre-Start Check 17
XVI. Startup 17
XVII. Operation 18
XVIII. Auxiliary Heat 18
XIX. General Data 19-40
XX. Miscellaneous 41
Electrical & Physical Data 41-49
Airflow Performance 50-59
Heater Kit Characteristics 60-69
Wiring Diagrams 70-79
Charge Chart 80
Troubleshooting 81

Recognize this symbol as an indication of Important Safety Information!

⚠ WARNING

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

⚠ WARNING

THE MANUFACTURER'S WARRANTY DOES NOT COVER ANY DAMAGE OR DEFECT TO THE AIR CONDITIONER CAUSED BY THE ATTACHMENT OR USE OF ANY COMPONENTS, 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.

II. INTRODUCTION

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

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

III. CHECKING PRODUCT RECEIVED

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

IV. SPECIFICATIONS

A. GENERAL

The Packaged Air Conditioner is available without heat or with 6, 10, 12, 15, 20 or 24 kW electric heat. Cooling capacities of 3, 3½, 4 and 5 nominal tons of cooling are available. Units are convertible from end supply and return to bottom supply and return by relocation of supply and return air access panels. See cover installation detail.

The units are weatherized for mounting outside of the building.

The information on the rating plate is in compliance with the FTC and DOE rating for single phase units. The following information is for three phase units which **are not** covered under the DOE certification program.

1. The efficiency rating of this unit is a product thermal efficiency rating determined under continuous operating conditions independent of any installed system.

B. MAJOR COMPONENTS

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

C. R-410A REFRIGERANT

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

1. Specification of R-410A:

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

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

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

2. Quick Reference Guide For R-410A

- R-410A refrigerant operates at approximately 60% higher pressure (1.6 times) than R-22. Ensure that servicing equipment is designed to operate with R-410A.
- R-410A refrigerant cylinders are pink.
- R-410A, as with other HFC's is only compatible with POE oils.
- Vacuum pumps will not remove moisture from POE oil.

- R-410A systems are to be charged with liquid refrigerants. Prior to March 1999, R-410A refrigerant cylinders had a dip tube. These cylinders should be kept upright for equipment charging. Post March 1999 cylinders do not have a dip tube and should be inverted to ensure liquid charging of the equipment.
- Do not install a suction line filter drier in the liquid line.
- A liquid line filter drier is standard on every unit.
- Desiccant (drying agent) must be compatible for POE oils and R-410A.

3. Evaporator Coil / TXV

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

⚠ 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.

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

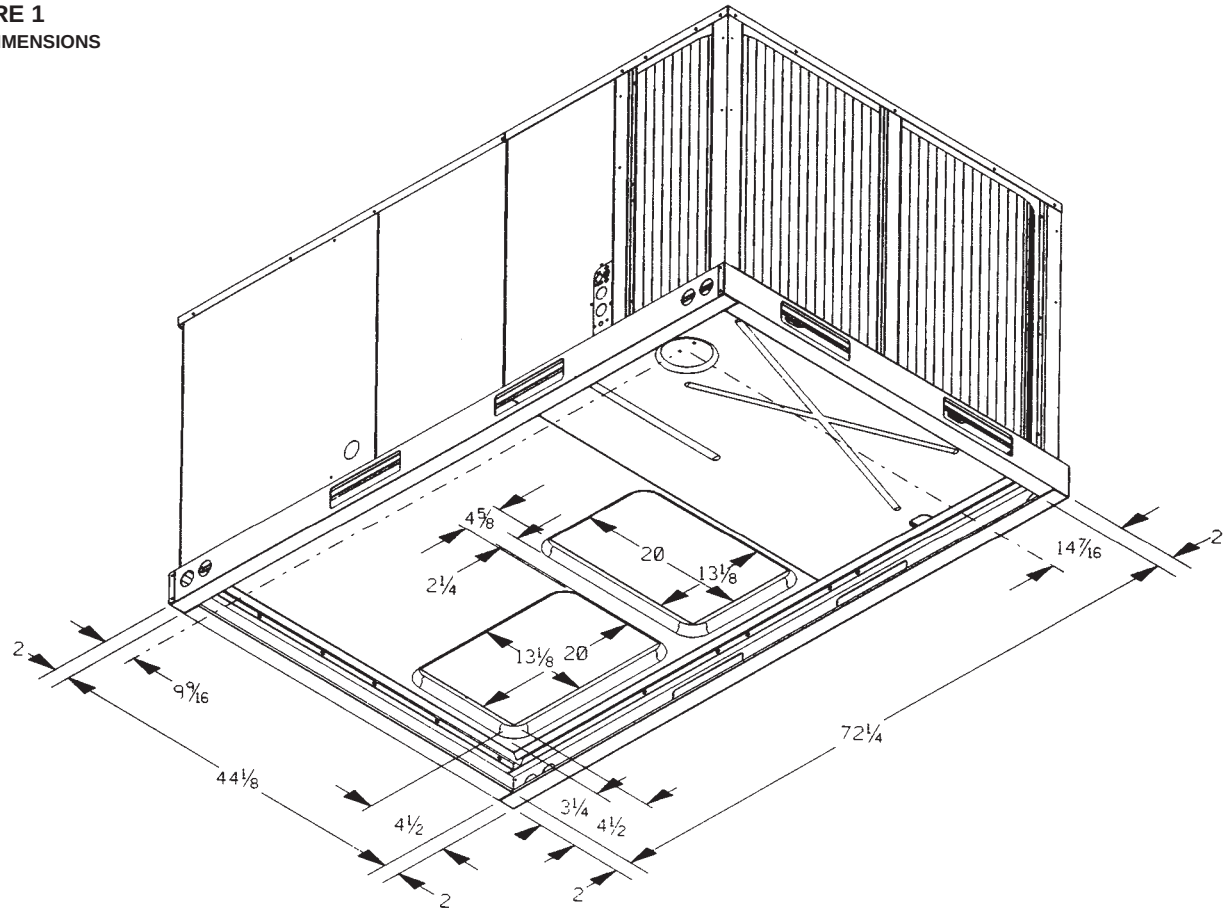
DISCONNECT ALL POWER TO THE UNIT BEFORE STARTING MAINTENANCE. FAILURE TO DO SO CAN RESULT IN SEVERE ELECTRICAL SHOCK OR DEATH.

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.

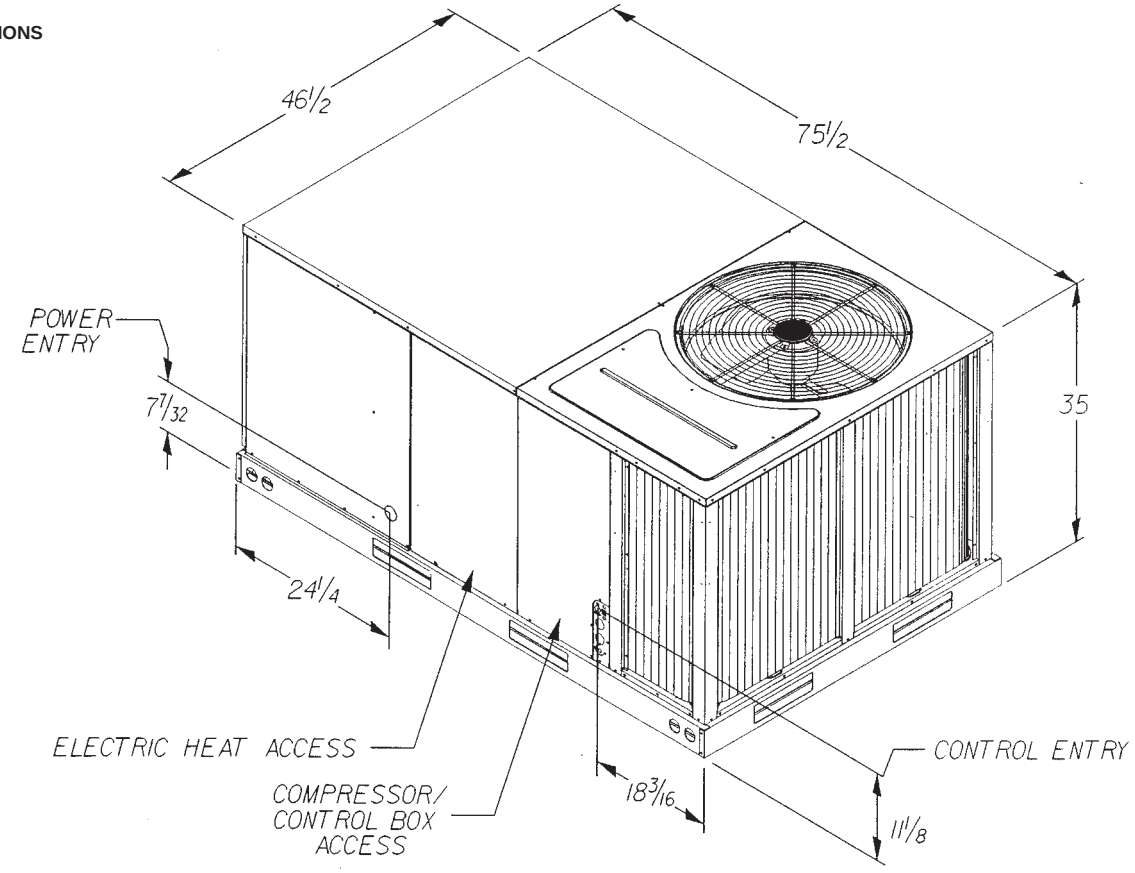
The best protection is frequent cleaning, maintenance and minimal exposure to contaminants.

FIGURE 1
UNIT DIMENSIONS



ILL 1316

FIGURE 2
UNIT DIMENSIONS



ILL1305

FIGURE 3
UNIT DIMENSIONS

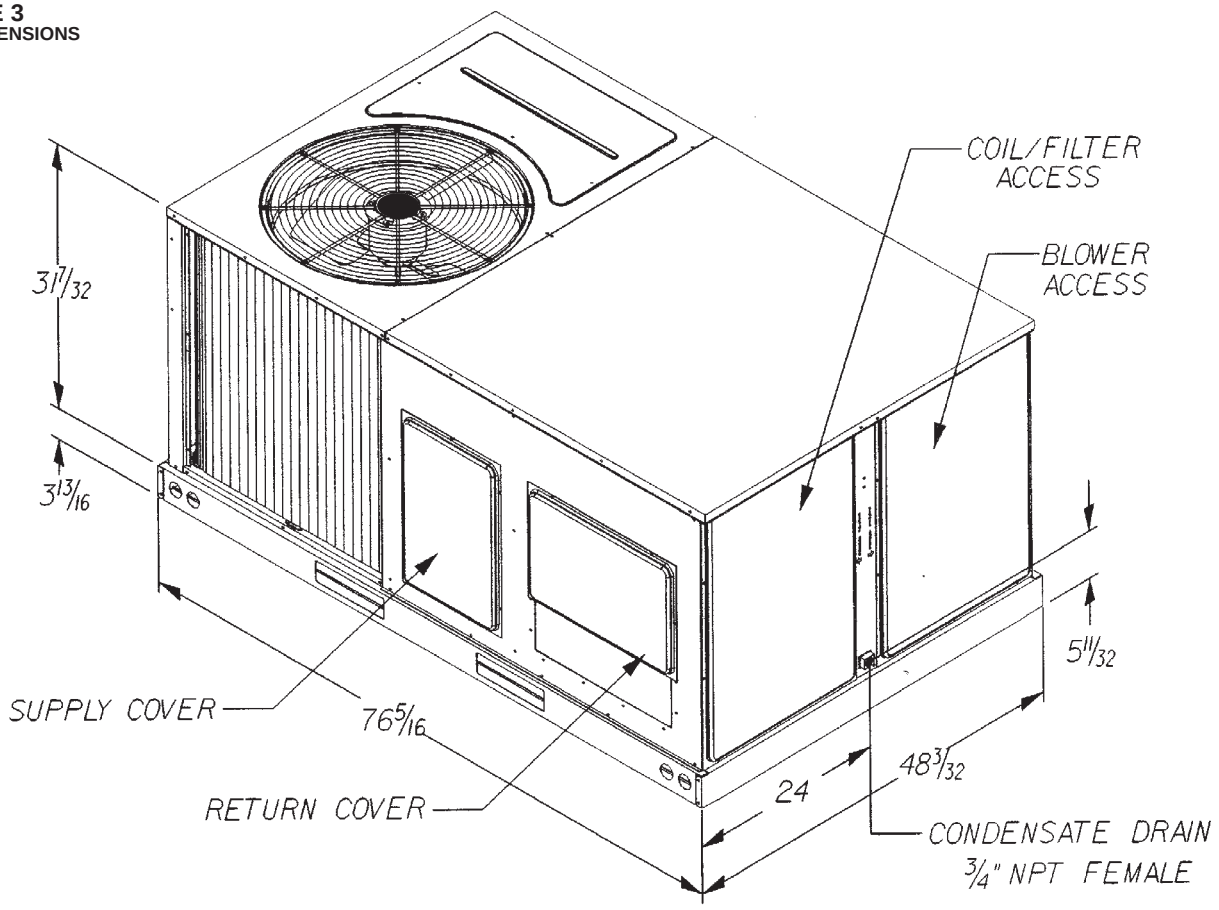


FIGURE 4
UNIT DIMENSIONS

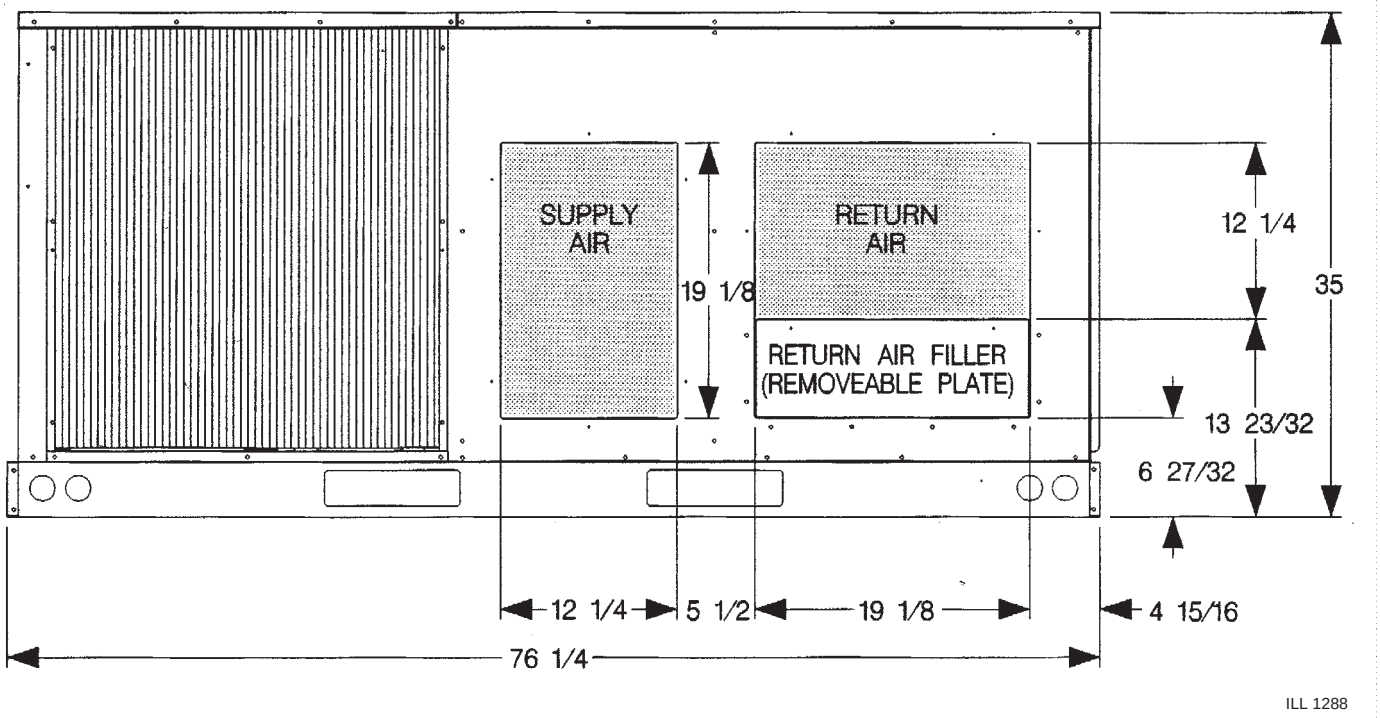
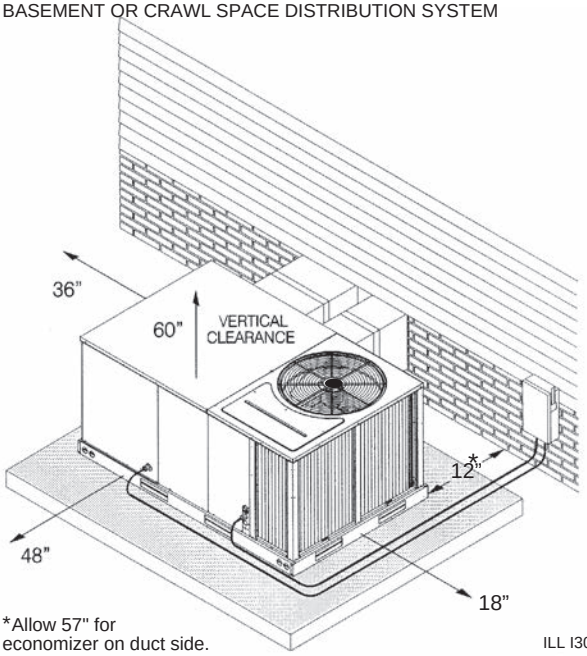


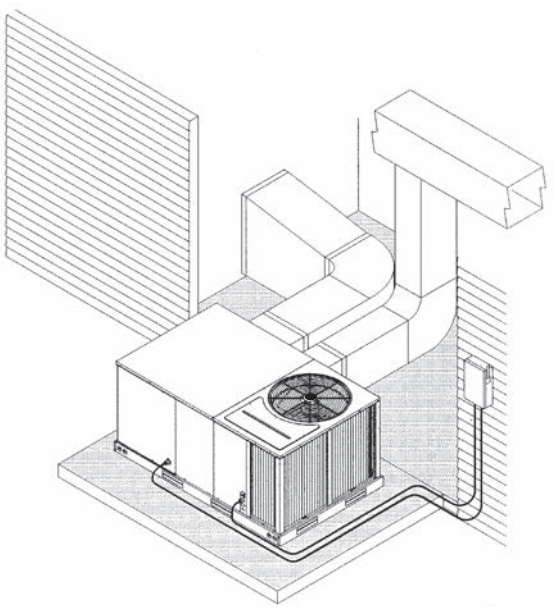
FIGURE 5
PACKAGE AIR CONDITIONER – OUTSIDE SLAB INSTALLATION, BASEMENT OR CRAWL SPACE DISTRIBUTION SYSTEM



*Allow 57" for economizer on duct side.

ILL I308

FIGURE 6
PACKAGE AIR CONDITIONER – OUTSIDE SLAB INSTALLATION, CLOSET DISTRIBUTION SYSTEM. SLAB FLOOR CONSTRUCTION



ILL I309

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.

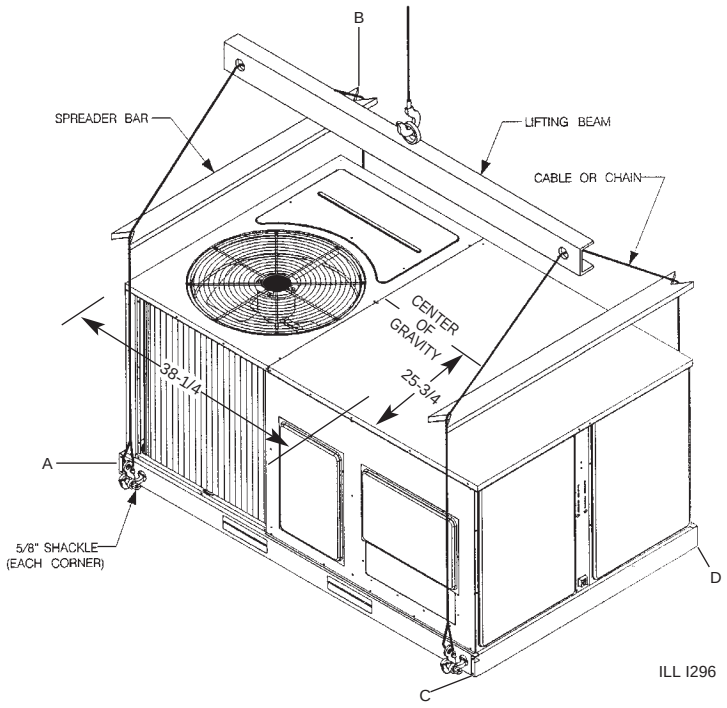
2. LOCATION

   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 5 and 6.)

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. Remove compressor shipping supports (if so equipped) after installation.

FIGURE 7
PACKAGE AIR CONDITIONER – RIGGING FOR LIFTING



CORNER WEIGHTS BY PERCENTAGE			
A	B	C	D
23%	27%	23%	27%

C. CLEARANCES

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

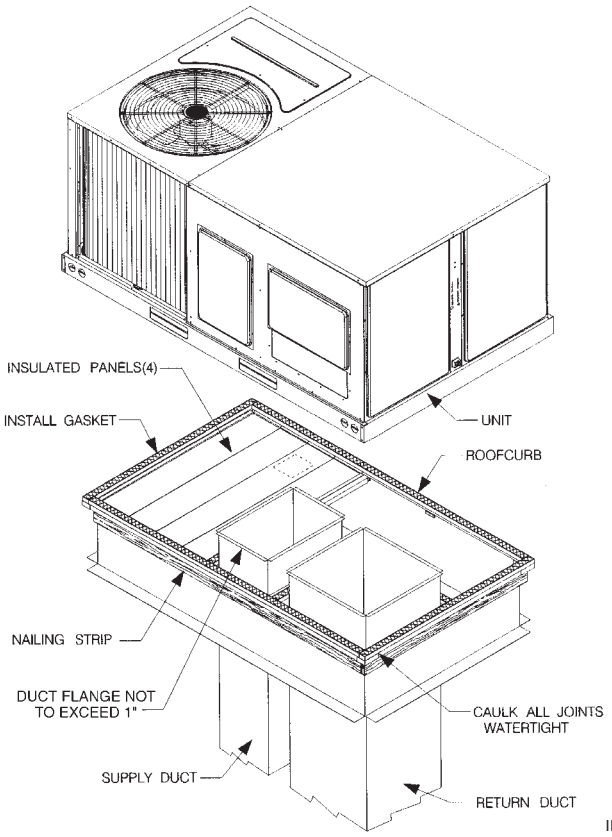
1. Provide 48" minimum clearance at the front of the unit. Provide 36" minimum clearance at the left and right side of the unit for service access.
2. Provide 60" minimum clearance between top of unit and maximum 3 foot overhang.
3. Unit is design certified for application on combustible flooring with 0" minimum clearance.
4. See Figure 5 for illustration of minimum installation-service clearances.

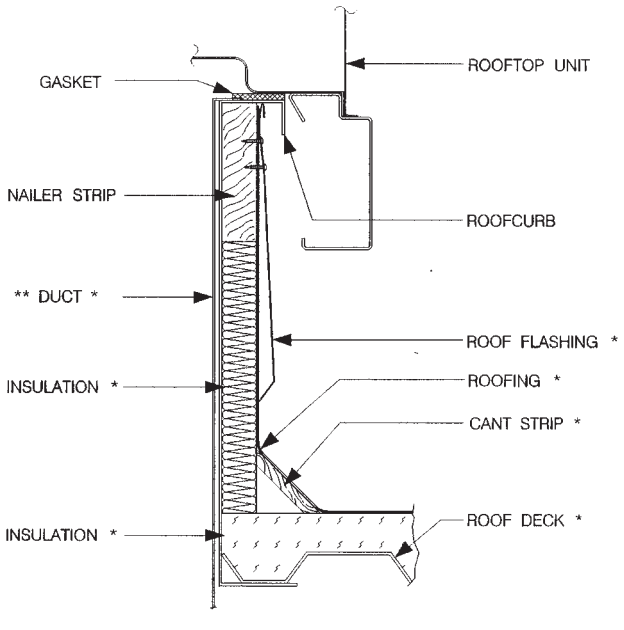
D. ROOFTOP INSTALLATION

1. Before locating the unit on the roof, make sure that the strength of the roof and beams is adequate at that point to support the weight involved. (See specification sheet for weight of unit.) This is very important and user's responsibility.
2. For rigging and roofcurb details, see Figures 7 and 8. Use field-furnished spreaders.
3. For roofcurb assembly, see Roofcurb Installation Instructions.
4. If the roofcurb is not used, provisions for disposing of condensate water runoff must be provided.
5. The unit should be placed on a solid and level roofcurb or platform of adequate strength. See Figure 9.
6. The location of the unit on the roof should be such as to provide proper access for inspection and servicing.
7. Remove compressor shipping supports (if so equipped) after installation.

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

FIGURE 8
PACKAGE AIR CONDITIONER – ROOFCURB INSTALLATION





* BY CONTRACTOR

** FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

⚠ 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.

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, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, http://www.acca.org.

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.

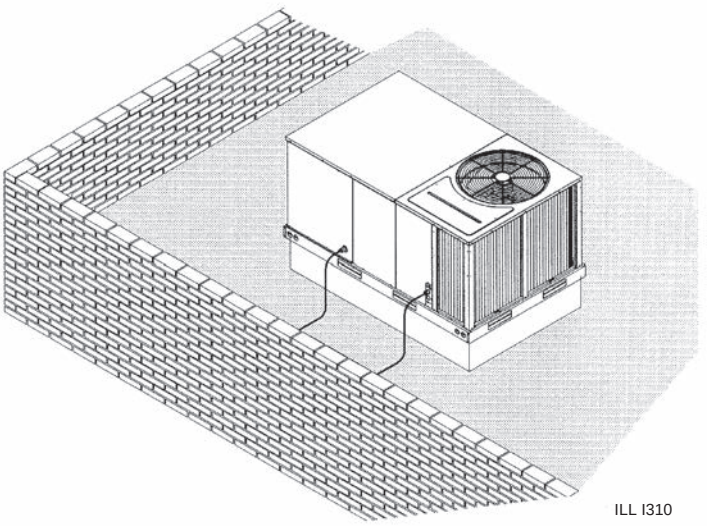
On ductwork exposed to outside air conditions of temperature and humidity, use a minimum of 2" of insulation and a vapor barrier. Distribution system in attic, furred space or crawl space should be insulated with at least 2" of insulation with vapor barrier. One-half to 1" thickness of insulation is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

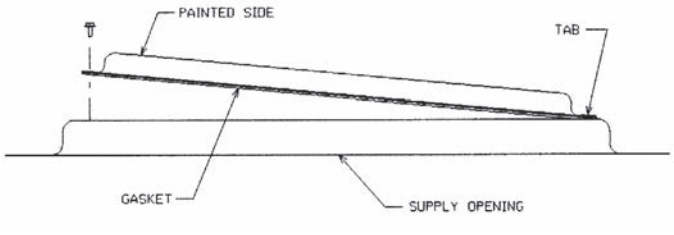
1. Noncombustible flexible connectors should be used between ductwork and unit to reduce noise and vibration transmission into the ductwork.
2. When auxiliary heaters are installed, use noncombustible flexible connectors and clearance to combustible material of 0" for the first 3 feet of discharge duct.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

FIGURE 9
PACKAGE AIR CONDITIONER – FLAT ROOFTOP INSTALLATION, ATTIC OR DROP CEILING DISTRIBUTION SYSTEM. MOUNTED ON ROOFCURB. CURB MUST BE LEVEL



ILL I310

FIGURE 10
COVER GASKET DETAIL



ILL I631

VIII. FILTERS

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

IX. CONVERSION PROCEDURE

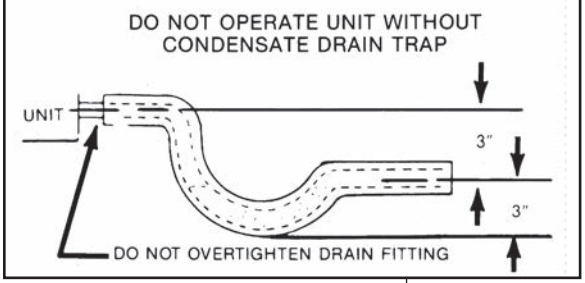
DOWNFLOW TO HORIZONTAL

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 10. 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.

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 11.

FIGURE 11
CONDENSATE DRAIN



XI. 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. Reference Figure 12 for proper location.
3. For branch circuit wiring (main power supply to unit disconnect), the minimum wire size can be determined from Table A using the circuit ampacity found on the unit nameplate.

TABLE A

COPPER WIRE SIZE — AWG (1% VOLTAGE DROP)

Supply Wire Length Feet	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
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
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
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
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
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

Circuit Ampacity

NOTE:
1. Wire size based on 60ºC type copper conductors below 100 ampacity.
2. Wire size based on 75ºC type copper conductors for 100 ampacity and above.

4. This unit incorporates single point electrical connection for unit and electric heat accessory.
5. Power wiring must be run in grounded rain-tight conduit. Connect the power field wiring as follows:
   a. NO ELECTRIC HEAT - Connect the field wires directly to the contactor pigtail in the electric heat access area. Connect ground wire to ground lug.
   b. WITH ELECTRIC HEAT - Connect the field wires to the terminal block on the electric heater kit in the electric heat access area. Connect the ground wire to the ground lug on the heater kit.

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

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

B. SPECIAL INSTRUCTIONS FOR POWER WIRING WITH ALUMINUM CONDUCTORS

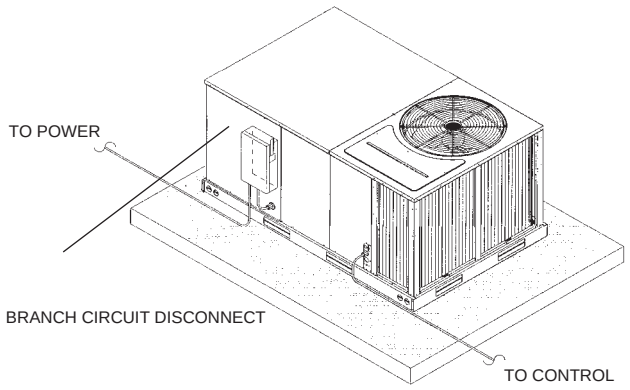
1. Select the equivalent aluminum wire size from the tabulation below:

TABLE B. WIRE SIZES

AWG Copper Wire Size	AWG Aluminum Wire Size	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

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.

FIGURE 12
RECOMMENDED LOCATION OF BRANCH CIRCUIT DISCONNECT



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

WARRANTY MAY NOT APPLY IF CONNECTIONS ARE NOT MADE PER INSTRUCTIONS

C. CONTROL WIRING (Class II)

1. Low voltage wiring should not be run in conduit with power wiring.
2. Control wiring is routed through the 7/8" hole adjacent to the compressor access panel. See Figure 2. Use a minimum #18 AWG thermostat wire. For wire lengths exceeding 50', use #16 AWG thermostat wire. The low voltage wires are connected to the unit pigtails which are supplied with the unit in the low voltage connection box located below the unit control box.

FIGURE 13
HEATER KIT INSTALLATION

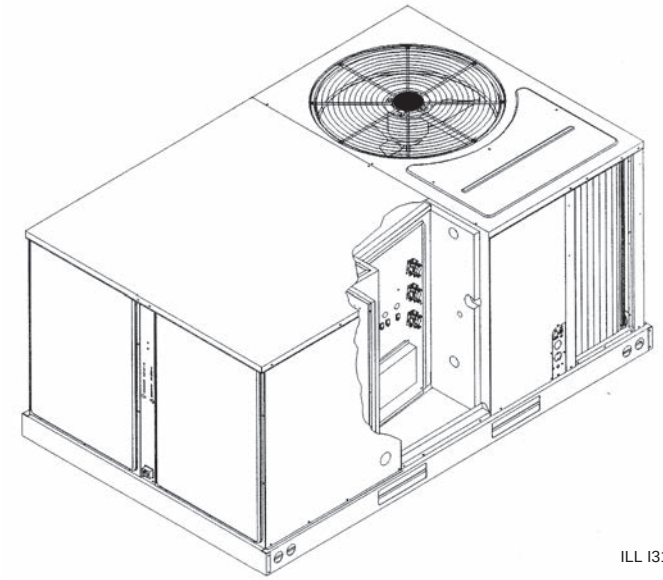
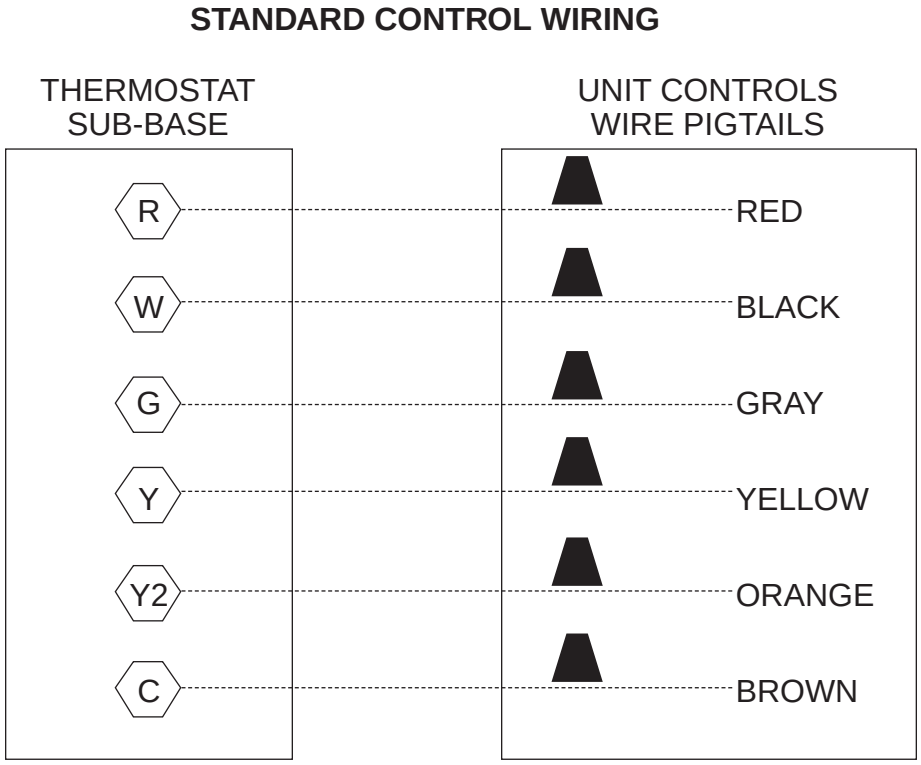


FIGURE 14
LOW VOLTAGE CONNECTIONS DIAGRAMS



NOTE: Y2 IS ONLY USED WITH OPTIONAL ECONOMIZER.

3. Figure 14 shows representative low voltage connection diagrams. Read your thermostat installation instructions for any special requirements for your specific thermostat.
   NOTE — Units installed in Canada require that an outdoor thermostat (30,000 min. cycles of endurance) be installed and be wired with C.E.C. Class I wiring.

D. INTERNAL WIRING

IMPORTANT: *Some single phase models 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 electronically commutated blower motors which are constantly energized unless the main unit disconnect is in the off position.

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.

E. GROUNDING

⚠ WARNING

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

F. THERMOSTAT

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

XII. INDOOR AIR FLOW DATA

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

XIII. UNITS WITH ECM BLOWER MOTORS (CV & DV MODELS ONLY)

The ECM (Brushless permanent magnet) motor used on the blower in this product is programmed to operate over a wide range of external static pressures (0.0" - 1.0" W.C.) with essentially constant air flow (CFM). Motor efficiency on ECM type motors is higher than that of P.S.C. type motors normally used on this type product. See air flow performance data tables.

The ECM motor is programmed to provide a "soft" start and stop. On a call for heat or cool, the motor will gradually ramp up to the field selected CFM speed. This eliminates the sudden rush of air and noise normally associated with a P.S.C. type motor. Once the thermostat and blower delay are satisfied, the motor will gradually ramp down as well.

IMPORTANT: Units equipped with ECM motors cannot be used in by-pass zoning applications.

IMPORTANT: The A.C. power plug to the blower motor has locking tabs. It has been shown that by applying excessive force to the A.C. cable half of the connector it is possible to force the connector in backwards. It will not seat and "click" properly but will make connection. If A.C. power is applied with the connector reversed the motor will be immediately destroyed. Do not force power plug into motor connector backwards.

NOTE: Because of the harmonic content of the A.C. Line current to the ECM motor a conventional ammeter will not read correct motor amps. Only a true RMS meter will give accurate AMP readings.

IMPORTANT: The flexibility of ECM motors and the fact that this flexibility is contained in programmed memory, not hardware, emphasizes the need for exact motor numbers for replacement motors. Because they all look the same, ECM MOTORS FROM DIFFERENT PRODUCTS OR DIFFERENT MODELS OF THE SAME PRODUCT MUST NOT BE INTERCHANGED.

IMPORTANT: If an ECM motor is replaced, it is important that the motor be mounted as the original, as far into the blower wheel as practical for proper motor cooling.

IMPORTANT: The ECM motor is controlled directly from the room thermostat (in all modes except heating). In cooling, the motor is controlled from the thermostat "Y" terminal. When the "Y" or "R" thermostat circuit is opened a 30 second delay will occur before the blower motor will cycle. In the heating mode the furnace control board controls the ECM through the blower relay. When the "W" thermostat circuits are opened, a 90 second delay will occur before the blower will cycle off. When the "G" to "R" thermostat circuit is opened for low speed blower, there is no "off' delay. All thermostat sub-base combinations as recommended and provided through the Parts Department have been tested and are compatible with the ECM motor used in this equipment. Some thermostats may not be compatible with the ECM motor provided in this unit. With thermostat in off state, the voltage on control lines "G", "Y", or W with respect to 24 vac common should be less than 3.5 VAC. If the measured voltage is too high, thermostat is incompatible with the ECM motor and will cause the motor to run when it should be off.

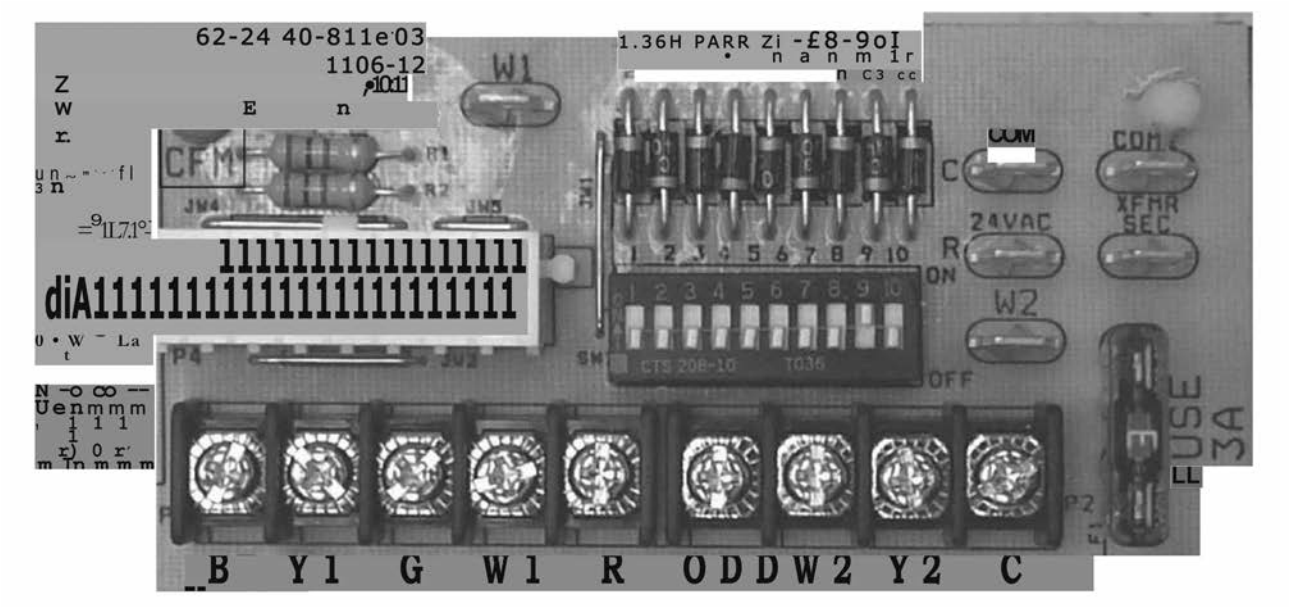
A. ECM MOTOR INTERFACE CONTROL AND SETTINGS (CV & DV UNITS ONLY)

The CV & DV series units use ECM blower motors to deliver a constant level of airflow over a wide range of external static pressures (up to 1.5" W.C.). The interface board provides the required communications between the thermostat/IFC and the ECM blower motor. The interface board features:

• An automotive-style ATC blade fuse for transformer protection (3 amp).

FIGURE 15
ECM INTERFACE BOARD

DO NOT WIRE DIRECTLY TO THIS BOARD. THERMOSTAT SHOULD BE WIRED TO PIGTAILS LOCATED BELOW THE CONTROL BOX.



(THIS BOARD IS LOCATED IN THE BLOWER SECTION)

FIGURE 16
ECM MOTOR SETTINGS



(This board is located in the blower section)

- **An on-board LED to indicate blower CFM.**
- **Inputs for two-stages of cooling: Y1 (first stage) and Y2 (second stage)**

The DIP switches on the interface board are used to define the operation of the ECM motor (see Table C).

TABLE C
SWITCH FUNCTIONS

Switch	Function
1 & 2	Heating & Fan Airflow Settings
3 & 4	Cooling Airflow Adjustment
5 & 6	Cooling Airflow Settings
7 & 8	Not Used
9 & 10	Not Used

Refer to Figure 16 for switch identification and factory default settings.

IMPORTANT: Disconnect power to unit when changing DIP switch positions. Even if blower is not operating, the motor will not recognize changes in DIP switch positions until unit power is removed and then restored.

B. TRANSFORMER PROTECTION

The ECM interface board is equipped with an automotive-style 3 amp ATC blade fuse for transformer protection. (See Figure 15.) If a short circuit occurs on the secondary side of the transformer, the fuse will open

C. USING THE ON-BOARD LED TO DETERMINE BLOWER CFM

The ECM interface board LED, which is located in the blower section (see Figure 15), indicates blower output by flashing. The LED will pause 1/10 second between each flash. After the blower CFM has been displayed, the LED will illuminate dimly for 10 seconds before repeating the sequence. (See Table D.)

TABLE D
LED FLASH CODES

Interface board DIP switch settings	LED Output
1400 CFM	• Flashes 14 times • Illuminate dimly 10 seconds, repeat sequence
1600 CFM	• Flashes 16 times • Illuminate dimly 10 seconds, repeat sequence
1800 CFM	• Flashes 18 times • Illuminate dimly 10 seconds, repeat sequence
2000 CFM	• Flashes 21 times • Illuminate dimly 10 seconds, repeat sequence
2200 CFM	• Flashes 24 times • Illuminate dimly 10 seconds, repeat sequence

D. AIRFLOW ADJUSTMENTS

FIGURE 17
HEATING AIRFLOW SETTING

CFM	SWITCH 1 POSITION	SWITCH 2 POSITION
1800	OFF	OFF
2000	ON	OFF
2200	OFF	ON
1800	ON	ON

FIGURE 18
COOLING AIRFLOW ADJUSTMENT

SELECTION	SWITCH 3 POSITION	SWITCH 4 POSITION	COOLING AIRFLOW ADJUSTMENT
A	OFF	OFF	NONE
B	ON	OFF	10%
C	OFF	ON	-10%
D	ON	ON	NONE

Cooling airflow may be adjusted +10% or —10% from nominal airflow using switches 3 & 4. Refer to Figure 33 for switch positions to achieve the desired adjustments in airflow.

FIGURE 19
COOLING AIRFLOW SETTING

1ST STAGE COOLING CFM	2ND STAGE COOLING CFM	SWITCH 5 POSITION	SWITCH 6 POSITION
1400	1800	OFF	OFF
1600	2000	ON	OFF
1600	2200	OFF	ON
1400	1800	ON	ON

XIV. CRANKCASE HEAT (OPTIONAL)

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

XV. PRE-START CHECK

1. Is unit properly located and slightly slanted toward indoor condensate drain?
2. Is ductwork insulated, weatherproofed, with proper spacing to combustible materials?
3. Is air free to travel to and from outdoor coil? (See Figure 5.)
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. Are the compressor shipping supports removed (if so equipped)?

XVI. STARTUP

1. Turn thermostat to “OFF,” turn “on” power supply at disconnect switch.
2. Turn temperature setting as high as it will go.
3. Turn fan switch to “ON.”
4. Indoor blower should run. Be sure it is running in the right direction.
5. Turn fan switch to “AUTO.” Turn system switch to “COOL” and turn temperature setting below room temperature. Unit should run in cooling mode.
6. Is outdoor fan operating correctly in the right direction?
7. Is compressor running correctly.
8. Check the refrigerant charge using the instructions located on compressor access panel. Replace service port caps. Service port cores are for system access only and will leak if not tightly capped.
9. Turn thermostat system switch to proper mode “HEAT” or “COOl” and set thermostat to proper temperature setting. Record the following after the unit has run some time.
   A. Operating Mode _____
   B. Discharge Pressure (High)_PSIG
   C. Vapor Pressure at Compressor (Low) _____PSIG
   D. VaporLine Temperature at Compressor _____°F.
   E. Indoor Dry Bulb_____°F.
   F. Indoor Wet Bulb _____°F.
   G. Outdoor Dry Bulb _____°F.
   H. Outdoor Wet Bulb_____°F.
   I. Voltage at Contactor _____Volts
   J. Current at Contactor _____Amps

K. Model Number_____

L. Serial Number _____

M. Location_____

N. Owner _____

O. Date_____

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

XVII. 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 60 seconds after the thermostat is satisfied.

XVIII. AUXILIARY HEAT

⚠ 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.

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

XIX. GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A036CK	A036CL	A036CM	A036DK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER[2]	11.5/13	11.5/13	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]
AHRI Net Cooling Capacity Btu [kW]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]
Net Sensible Capacity Btu [kW]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]
Net Latent Capacity Btu [kW]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]
Net System Power kW	2.93	2.93	2.93	2.93
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1 [25]	1 [25]	1 [25]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Direct	Direct	Belt (Adjustable)	Direct
No. Speeds	Multiple	Multiple	Single	Multiple
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1725	1075
Motor Frame Size	48	48	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	54 [1531]	54 [1531]	54 [1531]
Weights				
Net Weight lbs. [kg]	453 [206]	471 [214]	471 [214]	453 [206]
Ship Weight lbs. [kg]	460 [209]	478 [217]	478 [217]	460 [209]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A036DL	A036DM	A036JK	A036YL
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER[2]	11.5/13	11.5/13	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]
AHRI Net Cooling Capacity Btu [kW]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]
Net Sensible Capacity Btu [kW]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]
Net Latent Capacity Btu [kW]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]
Net System Power kW	2.93	2.93	2.93	2.93
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1 [25]	1 [25]	1 [25]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Belt (Adjustable)	Belt (Adjustable)	Direct	Belt (Adjustable)
No. Speeds	Single	Single	Multiple	Single
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	3/4
Motor RPM	1725	1725	1075	1725
Motor Frame Size	48	56	48	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	54 [1531]	54 [1531]	54 [1531]
Weights				
Net Weight lbs. [kg]	471 [214]	471 [214]	453 [206]	471 [214]
Ship Weight lbs. [kg]	478 [217]	478 [217]	460 [209]	478 [217]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A036YM	A048CK	A048CL	A048CM
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	11.5/13	11.5/13	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1600/1500 [755/708]	1600/1500 [755/708]	1600/1500 [755/708]
AHRI Net Cooling Capacity Btu [kW]	34,600 [10.14]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Sensible Capacity Btu [kW]	25,300 [7.41]	34,000 [9.96]	34,000 [9.96]	34,000 [9.96]
Net Latent Capacity Btu [kW]	9,300 [2.72]	12,000 [3.52]	12,000 [3.52]	12,000 [3.52]
Net System Power kW	2.93	3.93	3.93	3.93
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Belt (Adjustable)	Direct	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Multiple	Single	Single
No. Motors	1	1	1	1
Motor HP	3/4	1/2	1/2	3/4
Motor RPM	1725	1075	1725	1725
Motor Frame Size	56	48	48	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	68 [1928]	68 [1928]	68 [1928]
Weights				
Net Weight lbs. [kg]	471 [214]	477 [216]	495 [225]	496 [225]
Ship Weight lbs. [kg]	478 [217]	484 [220]	502 [228]	503 [228]

[ ] Designates Metric Conversions

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A048DK	A048DL	A048DM	A048JK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	11.5/13	11.5/13	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	1600/1500 [755/708]	1600/1500 [755/708]	1600/1500 [755/708]	1600/1500 [755/708]
AHRI Net Cooling Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Sensible Capacity Btu [kW]	34,000 [9.96]	34,000 [9.96]	34,000 [9.96]	34,000 [9.96]
Net Latent Capacity Btu [kW]	12,000 [3.52]	12,000 [3.52]	12,000 [3.52]	12,000 [3.52]
Net System Power kW	3.93	3.93	3.93	3.93
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Speeds	Multiple	Single	Single	Multiple
No. Motors	1	1	1	1
Motor HP	1/2	1/2	3/4	1/2
Motor RPM	1075	1725	1725	1075
Motor Frame Size	48	48	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	68 [1928]	68 [1928]	68 [1928]	68 [1928]
Weights				
Net Weight lbs. [kg]	477 [216]	495 [225]	496 [225]	477 [216]
Ship Weight lbs. [kg]	484 [220]	502 [228]	503 [228]	484 [220]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A048YL	A048YM
Cooling Performance[1]		Continued ->
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	11.5/13	11.5/13
Nominal CFM/AHRI Rated CFM [L/s]	1600/1500 [755/708]	1600/1500 [755/708]
AHRI Net Cooling Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]
Net Sensible Capacity Btu [kW]	34,000 [9.96]	34,000 [9.96]
Net Latent Capacity Btu [kW]	12,000 [3.52]	12,000 [3.52]
Net System Power kW	3.93	3.93
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78
Outdoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3680 [1737]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single
No. Motors	1	1
Motor HP	3/4	3/4
Motor RPM	1725	1725
Motor Frame Size	56	56
Filter - Type	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	68 [1928]	68 [1928]
Weights		
Net Weight lbs. [kg]	496 [225]	496 [225]
Ship Weight lbs. [kg]	503 [228]	503 [228]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A060CK	A060CL	A060CM	A060DK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	60,500 [17.73]	60,500 [17.73]	60,500 [17.73]	60,500 [17.73]
EER/SEER[2]	11/13	11/13	11/13	11/13
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]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	41,500 [12.16]	41,500 [12.16]	41,500 [12.16]	41,500 [12.16]
Net Latent Capacity Btu [kW]	16,500 [4.83]	16,500 [4.83]	16,500 [4.83]	16,500 [4.83]
Net System Power kW	5.23	5.23	5.23	5.23
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	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/11x10 [279x254]	1/11x10 [279x254]	1/10x10 [254x254]
Drive Type	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Speeds	Multiple	Single	Single	Multiple
No. Motors	1	1	1	1
Motor HP	3/4	3/4	1	3/4
Motor RPM	1075	1725	1725	1075
Motor Frame Size	48	56	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]	63 [1786]	63 [1786]	63 [1786]
Weights				
Net Weight lbs. [kg]	482 [219]	503 [228]	508 [230]	482 [219]
Ship Weight lbs. [kg]	489 [222]	510 [231]	515 [234]	489 [222]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A060DL	A060DM	A060JK	A060YL
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	60,500 [17.73]	60,500 [17.73]	60,500 [17.73]	60,500 [17.73]
EER/SEER[2]	11/13	11/13	11/13	11/13
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]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	41,500 [12.16]	41,500 [12.16]	41,500 [12.16]	41,500 [12.16]
Net Latent Capacity Btu [kW]	16,500 [4.83]	16,500 [4.83]	16,500 [4.83]	16,500 [4.83]
Net System Power kW	5.23	5.23	5.23	5.23
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	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/11x10 [279x254]	1/11x10 [279x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Direct	Belt (Adjustable)
No. Speeds	Single	Single	Multiple	Single
No. Motors	1	1	1	1
Motor HP	3/4	1	3/4	3/4
Motor RPM	1725	1725	1075	1725
Motor Frame Size	56	56	48	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]	63 [1786]	63 [1786]	63 [1786]
Weights				
Net Weight lbs. [kg]	503 [228]	508 [230]	482 [219]	503 [228]
Ship Weight lbs. [kg]	510 [231]	515 [234]	489 [222]	510 [231]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLNN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLNN- Series	A060YM
Cooling Performance[1]	
Gross Cooling Capacity Btu [kW]	60,500 [17.73]
EER/SEER[2]	11/13
Nominal CFM/AHRI Rated CFM [L/s]	2000/1850 [944/873]
AHRI Net Cooling Capacity Btu [kW]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	41,500 [12.16]
Net Latent Capacity Btu [kW]	16,500 [4.83]
Net System Power kW	5.23
Compressor	
No./Type	1/Scroll
Outdoor Sound Rating (dB)[5]	83
Outdoor Coil - Fin Type	Louvered
Tube Type	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered
Tube Type	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]
Refrigerant Control	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1
CFM [L/s]	3930 [1855]
No. Motors/HP	1 at 1/3 HP
Motor RPM	1075
Indoor Fan - Type	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)
No. Speeds	Single
No. Motors	1
Motor HP	1
Motor RPM	1725
Motor Frame Size	56
Filter - Type	Disposable
Furnished	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]
Weights	
Net Weight lbs. [kg]	508 [230]
Ship Weight lbs. [kg]	515 [234]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A036CK	A036CL	A036CM	A036DK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER[2]	11.5/14	11.5/14	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]
AHRI Net Cooling Capacity Btu [kW]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]
Net Sensible Capacity Btu [kW]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]
Net Latent Capacity Btu [kW]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]
Net System Power kW	2.95	2.95	2.95	2.95
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1 [25]	1 [25]	1 [25]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Speeds	Multiple	Single	Single	Multiple
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1725	1725	1075
Motor Frame Size	48	48	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	54 [1531]	54 [1531]	54 [1531]
Weights				
Net Weight lbs. [kg]	453 [206]	471 [214]	471 [214]	453 [206]
Ship Weight lbs. [kg]	460 [209]	478 [217]	478 [217]	460 [209]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A036DL	A036DM	A036JK	A036YL
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER[2]	11.5/14	11.5/14	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]
AHRI Net Cooling Capacity Btu [kW]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]	34,600 [10.14]
Net Sensible Capacity Btu [kW]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]	25,300 [7.41]
Net Latent Capacity Btu [kW]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]	9,300 [2.72]
Net System Power kW	2.95	2.95	2.95	2.95
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1 [25]	1 [25]	1 [25]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Belt (Adjustable)	Belt (Adjustable)	Direct	Belt (Adjustable)
No. Speeds	Single	Single	Multiple	Single
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	3/4
Motor RPM	1725	1725	1075	1725
Motor Frame Size	48	56	48	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	54 [1531]	54 [1531]	54 [1531]
Weights				
Net Weight lbs. [kg]	471 [214]	471 [214]	453 [206]	471 [214]
Ship Weight lbs. [kg]	478 [217]	478 [217]	460 [209]	478 [217]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A036YM	A048CK	A048CL	A048CM
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	11.5/14	11.5/14	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1600/1500 [755/708]	1600/1500 [755/708]	1600/1500 [755/708]
AHRI Net Cooling Capacity Btu [kW]	34,600 [10.14]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Sensible Capacity Btu [kW]	25,300 [7.41]	34,000 [9.96]	34,000 [9.96]	34,000 [9.96]
Net Latent Capacity Btu [kW]	9,300 [2.72]	12,000 [3.52]	12,000 [3.52]	12,000 [3.52]
Net System Power kW	2.95	3.93	3.93	3.93
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	13.9 [1.29]	16.3 [1.51]	16.3 [1.51]	16.3 [1.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Belt (Adjustable)	Direct	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Multiple	Single	Single
No. Motors	1	1	1	1
Motor HP	3/4	1/2	1/2	3/4

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A048DK	A048DL	A048DM	A048JK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	11.5/14	11.5/14	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	1600/1500 [755/708]	1600/1500 [755/708]	1600/1500 [755/708]	1600/1500 [755/708]
AHRI Net Cooling Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Sensible Capacity Btu [kW]	34,000 [9.96]	34,000 [9.96]	34,000 [9.96]	34,000 [9.96]
Net Latent Capacity Btu [kW]	12,000 [3.52]	12,000 [3.52]	12,000 [3.52]	12,000 [3.52]
Net System Power kW	3.93	3.93	3.93	3.93
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Speeds	Multiple	Single	Single	Multiple
No. Motors	1	1	1	1
Motor HP	1/2	1/2	3/4	1/2
Motor RPM	1075	1725	1725	1075
Motor Frame Size	48	48	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	68 [1928]	68 [1928]	68 [1928]	68 [1928]
Weights				
Net Weight lbs. [kg]	477 [216]	495 [225]	496 [225]	477 [216]
Ship Weight lbs. [kg]	484 [220]	502 [228]	503 [228]	484 [220]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A048YL	A048YM
Cooling Performance[1]		Continued ->
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	1600/1500 [755/708]	1600/1500 [755/708]
AHRI Net Cooling Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]
Net Sensible Capacity Btu [kW]	34,000 [9.96]	34,000 [9.96]
Net Latent Capacity Btu [kW]	12,000 [3.52]	12,000 [3.52]
Net System Power kW	3.93	3.93
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78
Outdoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3680 [1737]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single
No. Motors	1	1
Motor HP	3/4	3/4
Motor RPM	1725	1725
Motor Frame Size	56	56
Filter - Type	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	68 [1928]	68 [1928]
Weights		
Net Weight lbs. [kg]	496 [225]	496 [225]
Ship Weight lbs. [kg]	503 [228]	503 [228]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A060CK	A060CL	A060CM	A060DK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER[2]	11.5/14	11.5/14	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	2000/1800 [944/849]	2000/1800 [944/849]	2000/1800 [944/849]	2000/1800 [944/849]
AHRI Net Cooling Capacity Btu [kW]	58,500 [17.14]	58,500 [17.14]	58,500 [17.14]	58,500 [17.14]
Net Sensible Capacity Btu [kW]	41,700 [12.22]	41,700 [12.22]	41,700 [12.22]	41,700 [12.22]
Net Latent Capacity Btu [kW]	16,800 [4.92]	16,800 [4.92]	16,800 [4.92]	16,800 [4.92]
Net System Power kW	4.95	4.95	4.95	4.95
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	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/11x10 [279x254]	1/11x10 [279x254]	1/10x10 [254x254]
Drive Type	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Speeds	Multiple	Single	Single	Multiple
No. Motors	1	1	1	1
Motor HP	1	3/4	1	1
Motor RPM	1075	1725	1725	1075
Motor Frame Size	48	56	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]	63 [1786]	63 [1786]	63 [1786]
Weights				
Net Weight lbs. [kg]	482 [219]	503 [228]	508 [230]	482 [219]
Ship Weight lbs. [kg]	489 [222]	510 [231]	515 [234]	489 [222]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A060DL	A060DM	A060JK	A060YL
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER[2]	11.5/14	11.5/14	11.5/14	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	2000/1800 [944/849]	2000/1800 [944/849]	2000/1800 [944/849]	2000/1800 [944/849]
AHRI Net Cooling Capacity Btu [kW]	58,500 [17.14]	58,500 [17.14]	58,500 [17.14]	58,500 [17.14]
Net Sensible Capacity Btu [kW]	41,700 [12.22]	41,700 [12.22]	41,700 [12.22]	41,700 [12.22]
Net Latent Capacity Btu [kW]	16,800 [4.92]	16,800 [4.92]	16,800 [4.92]	16,800 [4.92]
Net System Power kW	4.95	4.95	4.95	4.95
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	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/11x10 [279x254]	1/11x10 [279x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Direct	Belt (Adjustable)
No. Speeds	Single	Single	Multiple	Single
No. Motors	1	1	1	1
Motor HP	3/4	1	1	3/4
Motor RPM	1725	1725	1075	1725
Motor Frame Size	56	56	48	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]	63 [1786]	63 [1786]	63 [1786]
Weights				
Net Weight lbs. [kg]	503 [228]	508 [230]	482 [219]	503 [228]
Ship Weight lbs. [kg]	510 [231]	515 [234]	489 [222]	510 [231]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLPN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN- Series	A060YM
Cooling Performance[1]	
Gross Cooling Capacity Btu [kW]	60,000 [17.58]
EER/SEER[2]	11.5/14
Nominal CFM/AHRI Rated CFM [L/s]	2000/1800 [944/849]
AHRI Net Cooling Capacity Btu [kW]	58,500 [17.14]
Net Sensible Capacity Btu [kW]	41,700 [12.22]
Net Latent Capacity Btu [kW]	16,800 [4.92]
Net System Power kW	4.95
Compressor	
No./Type	1/Scroll
Outdoor Sound Rating (dB)[5]	83
Outdoor Coil - Fin Type	Louvered
Tube Type	MicroChannel
Tube Size in. [mm] OD	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered
Tube Type	MicroChannel
Tube Size in. [mm] OD	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]
Refrigerant Control	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1
CFM [L/s]	3930 [1855]
No. Motors/HP	1 at 1/3 HP
Motor RPM	1075
Indoor Fan - Type	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)
No. Speeds	Single
No. Motors	1
Motor HP	1
Motor RPM	1725
Motor Frame Size	56
Filter - Type	Disposable
Furnished	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]
Weights	
Net Weight lbs. [kg]	508 [230]
Ship Weight lbs. [kg]	515 [234]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLQN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN- Series	A036CK	A036CL	A036CM	A036DK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER[2]	12.5/15	12.5/15	12.5/15	12.5/15
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]
AHRI Net Cooling Capacity Btu [kW]	35,400 [10.37]	35,400 [10.37]	35,400 [10.37]	35,400 [10.37]
Net Sensible Capacity Btu [kW]	26,200 [7.68]	26,200 [7.68]	26,200 [7.68]	26,200 [7.68]
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	2.72	2.72	2.72	2.72
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1 [25]	1 [25]	1 [25]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Speeds	Multiple	Single	Single	Multiple
No. Motors	1	1	1	1
Motor HP	1/2	1/2	3/4	1/2
Motor RPM	1075	1725	1725	1075
Motor Frame Size	48	48	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	54 [1531]	54 [1531]	54 [1531]
Weights				
Net Weight lbs. [kg]	453 [206]	471 [214]	471 [214]	453 [206]
Ship Weight lbs. [kg]	460 [209]	478 [217]	478 [217]	460 [209]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLQN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN- Series	A036DL	A036DM	A036JK	A048CK
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	48,000 [14.06]
EER/SEER[2]	12.5/15	12.5/15	12.5/15	12.5/15
Nominal CFM/AHRI Rated CFM [L/s]	1200/1250 [566/590]	1200/1250 [566/590]	1200/1250 [566/590]	1600/1600 [755/755]
AHRI Net Cooling Capacity Btu [kW]	35,400 [10.37]	35,400 [10.37]	35,400 [10.37]	46,500 [13.62]
Net Sensible Capacity Btu [kW]	26,200 [7.68]	26,200 [7.68]	26,200 [7.68]	35,700 [10.46]
Net Latent Capacity Btu [kW]	9,200 [2.7]	9,200 [2.7]	9,200 [2.7]	10,800 [3.16]
Net System Power kW	2.72	2.72	2.72	3.69
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	13.9 [1.29]	13.9 [1.29]	13.9 [1.29]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25]	1 [25]	1 [25]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Belt (Adjustable)	Belt (Adjustable)	Direct	Direct
No. Speeds	Single	Single	Multiple	Multiple
No. Motors	1	1	1	1
Motor HP	1/2	3/4	1/2	3/4
Motor RPM	1725	1725	1075	1075
Motor Frame Size	48	56	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	54 [1531]	54 [1531]	54 [1531]	68 [1928]
Weights				
Net Weight lbs. [kg]	471 [214]	471 [214]	453 [206]	477 [216]
Ship Weight lbs. [kg]	478 [217]	478 [217]	460 [209]	484 [220]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLQN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN- Series	A048CL	A048CM	A048DK	A048DL
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	12.5/15	12.5/15	12.5/15	12.5/15
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]	46,500 [13.62]	46,500 [13.62]	46,500 [13.62]	46,500 [13.62]
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]	10,800 [3.16]	10,800 [3.16]	10,800 [3.16]	10,800 [3.16]
Net System Power kW	3.69	3.69	3.69	3.69
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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	Belt (Adjustable)	Belt (Adjustable)	Direct	Belt (Adjustable)
No. Speeds	Single	Single	Multiple	Single
No. Motors	1	1	1	1
Motor HP	1/2	3/4	3/4	1/2
Motor RPM	1725	1725	1075	1725
Motor Frame Size	48	56	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	68 [1928]	68 [1928]	68 [1928]	68 [1928]
Weights				
Net Weight lbs. [kg]	495 [225]	496 [225]	477 [216]	495 [225]
Ship Weight lbs. [kg]	502 [228]	503 [228]	484 [220]	502 [228]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLQN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN- Series	A048DM	A048JK
Cooling Performance[1]		Continued ->
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]
EER/SEER[2]	12.5/15	12.5/15
Nominal CFM/AHRI Rated CFM [L/s]	1600/1600 [755/755]	1600/1600 [755/755]
AHRI Net Cooling Capacity Btu [kW]	46,500 [13.62]	46,500 [13.62]
Net Sensible Capacity Btu [kW]	35,700 [10.46]	35,700 [10.46]
Net Latent Capacity Btu [kW]	10,800 [3.16]	10,800 [3.16]
Net System Power kW	3.69	3.69
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[5]	78	78
Outdoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
Tube Size in. [mm] OD	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3680 [1737]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type	Belt (Adjustable)	Direct
No. Speeds	Single	Multiple
No. Motors	1	1
Motor HP	3/4	3/4
Motor RPM	1725	1075
Motor Frame Size	56	48
Filter - Type	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	68 [1928]	68 [1928]
Weights		
Net Weight lbs. [kg]	496 [225]	477 [216]
Ship Weight lbs. [kg]	503 [228]	484 [220]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLQN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN- Series	A060CK	A060CV	A060DK	A060DV
Cooling Performance[1]				**Continued ->**
Gross Cooling Capacity Btu [kW]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]
SEER[2]	15	15	15	15
EER (1st stage / 2nd stage)	19.9/11.5	19.9/11.5	19.9/11.5	19.9/11.5
AHRI Rated CFM (1st / 2nd stage) [L/s]	1375 / 1800 [649 / 849]	1375 / 1800 [649 / 849]	1375 / 1800 [649 / 849]	1375 / 1800 [649 / 849]
AHRI Net Cooling Capacity (1st / 2nd stage) Btu [kW]	49,000 / 57,000 [14.3/16.7]	49,000 / 57,000 [14.3/16.7]	49,000 / 57,000 [14.3/16.7]	49,000 / 57,000 [14.3/16.7]
Net Sensible Capacity (1st / 2nd stage) Btu [kW]	34,800 / 40,800 [10.2/12.0]	34,800 / 40,800 [10.2/12.0]	34,800 / 40,800 [10.2/12.0]	34,800 / 40,800 [10.2/12.0]
Net Latent Capacity (1st / 2nd stage) Btu [kW]	14,200 / 16,200 [4.2 / 4.8]	14,200 / 16,200 [4.2 / 4.8]	14,200 / 16,200 [4.2 / 4.8]	14,200 / 16,200 [4.2 / 4.8]
Net System Power (1st / 2nd stage) [kW]	2.1 / 4.8	2.1 / 4.8	2.1 / 4.8	2.1 / 4.8
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	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Face Area sq. ft. [sq. m]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/11x10 [279x254]	1/11x10 [279x254]	1/11x10 [279x254]
Drive Type	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Variable	Multiple	Variable
No. Motors	1	1	1	1
Motor HP	1	1	1	1
Motor RPM	1075	1075	1075	1075
Motor Frame Size	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	63 [1786]	63 [1786]	63 [1786]	63 [1786]
Weights				
Net Weight lbs. [kg]	481 [218]	493 [224]	481 [218]	549 [249]
Ship Weight lbs. [kg]	488 [221]	500 [227]	488 [221]	556 [252]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA - RLQN MODELS
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN- Series	A060JK	
Cooling Performance[1]		
Gross Cooling Capacity Btu [kW]	59,000 [17.29]	59,000 [17.29]
SEER[2]	15	15
EER (1st stage / 2nd stage)	19.9/11.5	19.9/11.5
AHRI Rated CFM (1st / 2nd stage) [L/s]	1375 / 1800 [649 / 849]	1375 / 1800 [649 / 849]
AHRI Net Cooling Capacity (1st / 2nd stage) Btu [kW]	49,000 / 57,000 [14.3/16.7]	49,000 / 57,000 [14.3/16.7]
Net Sensible Capacity (1st / 2nd stage) Btu [kW]	34,800 / 40,800 [10.2/12.0]	34,800 / 40,800 [10.2/12.0]
Net Latent Capacity (1st / 2nd stage) Btu [kW]	14,200 / 16,200 [4.2 / 4.8]	14,200 / 16,200 [4.2 / 4.8]
Net System Power (1st / 2nd stage) [kW]	2.1 / 4.8	2.1 / 4.8
Compressor		
No./Type	1/Scroll	
Outdoor Sound Rating (dB)[5]	83	
Outdoor Coil - Fin Type	Louvered	
Tube Type	MicroChannel	
Tube Size in. [mm] OD	0.7 [18]	
Face Area sq. ft. [sq. m]	16.4 [1.52]	
Rows / FPI [FPcm]	1 / 23 [9]	
Indoor Coil - Fin Type	Louvered	
Tube Type	MicroChannel	
Tube Size in. [mm] OD	1.3 [32]	
Face Area sq. ft. [sq. m]	4.8 [0.45]	
Rows / FPI [FPcm]	1 / 20 [8]	
Refrigerant Control	TX Valves	
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	
Outdoor Fan - Type	Propeller	
No. Used/Diameter in. [mm]	1/24 [609.6]	
Drive Type/No. Speeds	Direct/1	
CFM [L/s]	3930 [1855]	
No. Motors/HP	1 at 1/3 HP	
Motor RPM	1075	
Indoor Fan - Type	FC Centrifugal	
No. Used/Diameter in. [mm]	1/10x10 [254x254]	
Drive Type	Direct	
No. Speeds	Multiple	
No. Motors	1	
Motor HP	1	
Motor RPM	1075	
Motor Frame Size	48	
Filter - Type	Disposable	
Furnished	Yes	
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	
	(1)1x16x25 [25x406x635]	
Refrigerant Charge Oz. [g]	63 [1786]	
Weights		
Net Weight lbs. [kg]	481 [218]	
Ship Weight lbs. [kg]	488 [221]	

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

XX. MISCELLANEOUS

ELECTRICAL DATA - RLNN- SERIES										
		A036CK	A036CL	A036CM	A036DK	A036DL	A036DM	A036JK	A036YL	A036YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Minimum Circuit Ampacity	17/17	16/16	16/16	11	10	10	24/24	7	7
	Minimum Overcurrent Protection Device Size	20/20	20/20	20/20	15	15	15	30/30	15	15
	Maximum Overcurrent Protection Device Size	25/25	20/20	20/20	15	15	15	35/35	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	3	3	3	3	3	3	1	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	3	3	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	9/9	9/9	9/9	5.6	5.6	5.6	14.1/14.1	3.8	3.8
	Amps (LRA), Comp. 1	71/71	71/71	71/71	38	38	38	77/77	36.5	36.5
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1.5/1.5	1.5/1.5	1.5/1.5	1	1	1	1.5/1.5	0.8	0.8
	Amps (LRA, each)	3/3	3/3	3/3	1.9	1.9	1.9	3/3	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	1	3	1	3	3	1	3	3
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Amps (FLA, each)	4/4	2.8/2.8	2.8/2.8	2	1.4	1.4	4/4	1.3	1.3
	Amps (LRA, each)	6.7/6.7	6.7/6.7	16.8/16.8	3.6	6.2	8.4	6.7/6.7	6	6

ELECTRICAL DATA - RLNN- SERIES										
		A048CK	A048CL	A048CM	A048DK	A048DL	A048DM	A048JK	A048YL	A048YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Minimum Circuit Ampacity	22/22	21/21	22/22	11	11	11	31/31	8	8
	Minimum Overcurrent Protection Device Size	30/30	25/25	25/25	30	15	15	40/40	15	15
	Maximum Overcurrent Protection Device Size	35/35	30/30	30/30	15	15	15	50/50	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	3	3	1	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	4	4	4	4	4	4	4	4	4
	Amps (RLA), Comp. 1	13.1/13.1	13.1/13.1	13.1/13.1	6.1	6.1	6.1	19.9/19.9	4.4	4.4
	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	83.1/83.1	41	41	41	109/109	33	33
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1.5/1.5	1.5/1.5	1.5/1.5	1	1	1	1.5/1.5	0.8	0.8
	Amps (LRA, each)	3/3	3/3	3/3	3	1.9	1.9	3/3	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	460	460	208/230	575	575
	Phase	1	3	3	1	3	3	1	3	3
	HP	1/2	1/2	3/4	1/2	1/2	3/4	1/2	3/4	3/4
	Amps (FLA, each)	4/4	2.8/2.8	3.4/3.4	2	1.4	1.6	4/4	1.3	1.3
	Amps (LRA, each)	6.5/6.5	11.3/11.3	14.6/14.6	6.5	6.2	8.4	6.7/6.7	6	6

ELECTRICAL DATA - RLNN- SERIES										
		A060CK	A060CL	A060CM	A060DK	A060DL	A060DM	A060JK	A060YL	A060YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Minimum Circuit Ampacity	27/27	26/26	27/27	14	13	13	40/40	10	10
	Minimum Overcurrent Protection Device Size	35/35	30/30	35/35	20	15	15	50/50	15	15
	Maximum Overcurrent Protection Device Size	40/40	40/40	40/40	20	20	20	60/60	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	3	3	3	3	3	3	1	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	5	5	5	5	5	5	5	5	5
	Amps (RLA), Comp. 1	16/16	16/16	16/16	7.8	7.8	7.8	26.4/26.4	5.7	5.7
	Amps (LRA), Comp. 1	110/110	110/110	110/110	52	52	52	134/134	38.9	38.9
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.2/2.2	2.2/2.2	2.2/2.2	1	1	1	2.2/2.2	0.8	0.8
	Amps (LRA, each)	4.9/4.9	4.9/4.9	4.9/4.9	1.9	1.9	1.9	4.9/4.9	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	3	3	1	3	3	1	3	3
	HP	1	3/4	1	1	3/4	1	1	3/4	1
	Amps (FLA, each)	4.8/4.8	3.4/3.4	4.1/4.1	4	1.6	2	4.8/4.8	1.3	1.4
	Amps (LRA, each)	0/0	16.8/16.8	24/24	0	7.3	12	0/0	6	7.2

ELECTRICAL DATA - RLPN- SERIES										
		A036CK	A036CL	A036CM	A036DK	A036DL	A036DM	A036JK	A036YL	A036YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Minimum Circuit Ampacity	17/17	16/16	16/16	11	10	10	24/24	7	7
	Minimum Overcurrent Protection Device Size	20/20	20/20	20/20	15	15	15	30/30	15	15
	Maximum Overcurrent Protection Device Size	25/25	20/20	20/20	15	15	15	35/35	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	3	3	3	3	3	3	1	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	3	3	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	9/9	9/9	9/9	5.6	5.6	5.6	14.1/14.1	3.8	3.8
	Amps (LRA), Comp. 1	71/71	71/71	71/71	38	38	38	77/77	36.5	36.5
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1.5/1.5	1.5/1.5	1.5/1.5	1	1	1	1.5/1.5	0.8	0.8
	Amps (LRA, each)	3/3	3/3	3/3	1.9	1.9	1.9	3/3	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	3	3	1	3	3	1	3	3
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Amps (FLA, each)	4/4	2.8/2.8	2.8/2.8	2	1.4	1.6	4/4	1.3	1.3
	Amps (LRA, each)	6.7/6.7	11.3/11.3	16.8/16.8	3.6	6.2	8.4	6.7/6.7	6	6

ELECTRICAL DATA - RLPN- SERIES										
		A048CK	A048CL	A048CM	A048DK	A048DL	A048DM	A048JK	A048YL	A048YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Minimum Circuit Ampacity	22/22	21/21	22/22	11	11	11	31/31	8	8
	Minimum Overcurrent Protection Device Size	30/30	25/25	25/25	15	15	15	40/40	15	15
	Maximum Overcurrent Protection Device Size	35/35	30/30	30/30	15	15	15	50/50	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	3	3	3	3	3	3	1	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	4	4	4	4	4	4	4	4	4
	Amps (RLA), Comp. 1	13.1/13.1	13.1/13.1	13.1/13.1	6.1	6.1	6.1	19.9/19.9	4.4	4.4
	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	83.1/83.1	41	41	41	109/109	33	33
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1.5/1.5	1.5/1.5	1.5/1.5	1	1	1	1.5/1.5	0.8	0.8
	Amps (LRA, each)	3/3	3/3	3/3	1.9	1.9	1.9	3/3	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	3	3	1	3	3	1	3	3
	HP	1/2	1/2	3/4	1/2	1/2	3/4	1/2	3/4	3/4
	Amps (FLA, each)	4/4	2.8/2.8	3.4/3.4	2	1.4	1.6	4/4	1.3	1.3
	Amps (LRA, each)	6.5/6.5	11.3/11.3	14.6/14.6	3.6	6.2	8.4	6.7/6.7	6	6

ELECTRICAL DATA - RLPN- SERIES										
		A060CK	A060CL	A060CM	A060DK	A060DL	A060DM	A060JK	A060YL	A060YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Minimum Circuit Ampacity	30/30	26/26	27/27	15	13	13	43/43	10	10
	Minimum Overcurrent Protection Device Size	35/35	30/30	35/35	20	15	15	50/50	15	15
	Maximum Overcurrent Protection Device Size	45/45	40/40	40/40	20	20	20	60/60	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	3	3	3	3	3	3	1	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	5	5	5	5	5	5	5	5	5
	Amps (RLA), Comp. 1	16/16	16/16	16/16	7.8	7.8	7.8	26.4/26.4	5.7	5.7
	Amps (LRA), Comp. 1	110/110	110/110	110/110	52	52	52	134/134	39.9	39.9
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.2/2.2	2.2/2.2	2.2/2.2	1	1	1	2.2/2.2	0.8	0.8
	Amps (LRA, each)	4.9/4.9	4.9/4.9	4.9/4.9	1.9	1.9	1.9	4.9/4.9	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	575	575
	Phase	1	3	3	1	3	3	1	3	3
	HP	1	3/4	1	1	3/4	1	1	3/4	1
	Amps (FLA, each)	7.6/7.6	3.4/3.4	4.1/4.1	4	1.6	2	7.6/7.6	1.3	1.4
	Amps (LRA, each)	0/0	16.8/16.8	24/24	0	7.3	12	0/0	6	7.2

ELECTRICAL DATA - RLQN- SERIES										
		A036CK	A036CL	A036CM	A036DK	A036DL	A036DM	A036JK		
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Minimum Circuit Ampacity	17/17	16/16	16/16	11	10	10	24/24		
	Minimum Overcurrent Protection Device Size	20/20	20/20	20/20	15	15	15	30/30		
	Maximum Overcurrent Protection Device Size	25/25	20/20	20/20	15	15	15	35/35		
Compressor Motor	No.	1	1	1	1	1	1	1		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Phase	3	3	3	3	3	3	1		
	RPM	3450	3450	3450	3450	3450	3450	3450		
	HP, Compressor 1	3	3	3	3	3	3	3		
	Amps (RLA), Comp. 1	9/9	9/9	9/9	5.6	5.6	5.6	14.1/14.1		
	Amps (LRA), Comp. 1	71/71	71/71	71/71	38	38	38	77/77		
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Phase	1	1	1	1	1	1	1		
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3		
	Amps (FLA, each)	1.5/1.5	1.5/1.5	1.5/1.5	1	1	1	1.5/1.5		
	Amps (LRA, each)	3/3	3/3	3/3	1.9	1.9	1.9	3/3		
Evaporator Fan	No.	1	1	1	1	1	1	1		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Phase	1	3	3	1	3	3	1		
	HP	1/2	1/2	3/4	1/2	1/2	3/4	1/2		
	Amps (FLA, each)	4.1/4.1	2.8/2.8	2.8/2.8	2.1	1.4	1.4	4.1/4.1		
	Amps (LRA, each)	0/0	11.3/11.3	15/15	0	6.2	8.4	0/0		

ELECTRICAL DATA - RLQN- SERIES										
		A048CK	A048CL	A048CM	A048DK	A048DL	A048DM	A048JK		
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Minimum Circuit Ampacity	24/24	21/21	22/22	12	11	11	33/33		
	Minimum Overcurrent Protection Device Size	30/30	25/25	25/25	15	15	15	40/40		
	Maximum Overcurrent Protection Device Size	35/35	30/30	30/30	15	15	15	50/50		
Compressor Motor	No.	1	1	1	1	1	1	1		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Phase	3	3	3	3	3	3	1		
	RPM	3450	3450	3450	3450	3450	3450	3450		
	HP, Compressor 1	4	4	4	4	4	4	4		
	Amps (RLA), Comp. 1	13.1/13.1	13.1/13.1	13.1/13.1	6.1	6.1	6.1	19.9/19.9		
	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	83.1/83.1	41	41	41	109/109		
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	1	1	1	1	1	1	1		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Phase	1	1	1	1	1	1	1		
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3		
	Amps (FLA, each)	1.5/1.5	1.5/1.5	1.5/1.5	1	1	1	1.5/1.5		
	Amps (LRA, each)	3/3	3/3	3/3	1.9	1.9	1.9	3/3		
Evaporator Fan	No.	1	1	1	1	1	1	1		
	Volts	208/230	208/230	208/230	460	460	460	208/230		
	Phase	1	3	3	1	3	3	1		
	HP	3/4	1/2	3/4	3/4	1/2	3/4	3/4		
	Amps (FLA, each)	6/6	2.8/2.8	3.4/3.4	3.2	1.4	1.6	6/6		
	Amps (LRA, each)	0/0	11.3/11.3	16.8/16.8	0	6.2	8.4	0/0		

ELECTRICAL DATA - RLQN SERIES									
		A060CK	A060CV	A060DK	A060DV	A060JK			
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253			
	Volts	208/230	208/230	460	460	208/230			
	Minimum Circuit Ampacity	31/31	32/32	15	16	46/46			
	Minimum Overcurrent Protection Device Size	35/35	40/40	20	20	60/60			
	Maximum Overcurrent Protection Device Size	45/45	45/45	20	20	60/60			
Compressor Motor	No.	1	1	1	1	1			
	Volts	208/230	208/230	460	460	208/230			
	Phase	3	3	3	3	1			
	RPM	3450	3450	3450	3450	3450			
	HP, Compressor 1	5	5	5	5	5			
	Amps (RLA), Comp. 1	16.2/16.2	16.2/16.2	7.6	7.6	28.8/28.8			
	Amps (LRA), Comp. 1	110/110	110/110	52	52	152.9/152.9			
	HP, Compressor 2								
	Amps (RLA), Comp. 2								
	Amps (LRA), Comp. 2								
Condenser Motor	No.	1	1	1	1	1			
	Volts	208/230	208/230	460	460	208/230			
	Phase	1	1	1	1	1			
	HP	1/3	1/3	1/3	1/3	1/3			
	Amps (FLA, each)	2.2/2.2	2.2/2.2	1	1	2.2/2.2			
	Amps (LRA, each)	4.9/4.9	4.9/4.9	1.9	1.9	4.9/4.9			
Evaporator Fan	No.	1	1	1	1	1			
	Volts	208/230	208/230	460	460	208/230			
	Phase	1	3	1	3	1			
	HP	1	1	1	1	1			
	Amps (FLA, each)	7.6/7.6	9.1/9.1	4	4.6	7.6/7.6			
	Amps (LRA, each)	0/0	0/0	0	0	0/0			

DIRECT-DRIVE 208 VOLT AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts							
								Enternal Static Pressure--Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RLNN-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] Speed Motor (PSC Motor)	Low	CFM	1153	1155	1150	1106	1043	977	809	645
							Watts	519	503	485	453	418	393	345	289
		Med	120,000 [35.17]			Med	CFM	1296	1303	1290	1269	1212	1143	1015	773
							Watts	594	581	560	539	510	470	432	369
						High	CFM	1661	1640	1605	1550	1479	1368	1259	943
							Watts	778	748	708	671	630	570	530	436
RLNN-A048	Med	Low	80,000 [23.45]	1400/1800	10x10 1/2 HP [373] Speed Motor (PSC Motor)	Low	CFM	1160	1164	1159	1132	1097	1013	913	702
							Watts	521	503	489	469	444	402	372	300
		Med	120,000 [35.17]			Med	CFM	1302	1299	1290	1268	1216	1144	1083	901
							Watts	576	562	544	525	497	458	434	378
		High	135,000 [39.56]			High	CFM	1667	1651	1616	1569	1517	1441	1371	1153
							Watts	782	751	713	680	644	597	564	485
RLNN-A060	Med	Low	120,000 [35.17]	1750/2250	10x10 1 HP [745] Speed Motor (PSC Motor)	Low	CFM	1425	1414	1402	1383	1339	1272	1150	1005
							Watts	580	568	555	536	513	479	442	404
						Med	CFM	1706	1695	1672	1633	1593	1519	1410	1161
							Watts	717	698	682	655	630	593	546	476
		High	135,000 [39.56]			High	CFM	2377	2293	2215	2114	2030	1909	1757	1566
							Watts	1086	1036	993	947	911	859	800	735

[ ] Designates Metric Conversions

DIRECT-DRIVE 230/460 VOLT AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts							
								Enternal Static Pressure--Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RLNN-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Low	CFM	1346	1341	1329	1287	1212	1157	969	838
							Watts	596	580	557	523	483	463	401	371
		Med	120,000 [35.17]			Med	CFM	1496	1494	1474	1442	1391	1323	1139	932
							Watts	697	679	653	622	591	550	486	431
						High	CFM	1868	1834	1786	1719	1636	1521	1345	1037
							Watts	870	839	799	754	713	657	591	503
RLNN-A048	Med	Low	80,000 [23.45]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Low	CFM	1355	1352	1340	1318	1275	1200	1094	912
							Watts	598	580	562	541	512	473	432	385
		Med	120,000 [35.17]			Med	CFM	1504	1490	1474	1440	1396	1324	1215	1087
							Watts	677	656	635	606	576	536	488	442
		High	135,000 [39.56]			High	CFM	1875	1846	1798	1740	1679	1602	1464	1268
							Watts	874	842	805	765	729	688	629	559
RLNN-A060	Med	Low	120,000 [35.17]	1750/2250	10x10 1 HP [745] 3 Speed Motor (PSC Motor)	Low	CFM	1649	1637	1609	1580	1528	1461	1319	1112
							Watts	679	663	646	623	593	560	512	457
						Med	CFM	1952	1918	1880	1816	1746	1647	1546	1309
							Watts	829	804	776	742	705	658	618	544
		High	135,000 [39.56]			High	CFM	2471	2378	2279	2177	2066	1973	1802	1614
							Watts	1177	1133	1087	1046	1000	963	901	842

[ ] Designates Metric Conversions

DIRECT-DRIVE 208 VOLT AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts							
								Enternal Static Pressure--Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RLPN-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Low	CFM	1153	1155	1150	1106	1043	977	809	645
							Watts	519	503	485	453	418	393	345	289
		Med	120,000 [35.17]			Med	CFM	1296	1303	1290	1269	1212	1143	1015	773
							Watts	594	581	560	539	510	470	432	369
						High	CFM	1661	1640	1605	1550	1479	1368	1259	943
							Watts	778	748	708	671	630	570	530	436
RLPN-A048	Med	Low	80,000 [23.45]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Low	CFM	1160	1164	1159	1132	1097	1013	913	702
							Watts	521	503	489	469	444	402	372	300
		Med	120,000 [35.17]			Med	CFM	1302	1299	1290	1268	1216	1144	1083	901
							Watts	576	562	544	525	497	458	434	378
		High	135,000 [39.56]			High	CFM	1667	1651	1616	1569	1517	1441	1371	1153
							Watts	782	751	713	680	644	597	564	485
RLPN-A060	Med	Low	120,000 [35.17]	1750/2250	10x10 1 HP [745] 3 Speed Motor (PSC Motor)	Low	CFM	1678	1641	1599	1557	1521	1471	1430	1384
							Watts	354	364	386	409	430	456	470	491
						Med	CFM	1842	1820	1781	1741	1703	1659	1613	1536
							Watts	455	479	489	516	529	551	574	571
		High	135,000 [39.56]			High	CFM	2476	2417	2336	2229	2120	1965	1816	1625
							Watts	1010	989	977	918	862	781	707	620

[ ] Designates Metric Conversions

DIRECT-DRIVE 230/460 VOLT AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts							
								Enternal Static Pressure--Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RLPN-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] Speed Motor (PSC Motor)	Low	CFM	1346	1341	1329	1287	1212	1157	969	838
							Watts	596	580	557	523	483	463	401	371
		Med	120,000 [35.17]			Med	CFM	1496	1494	1474	1442	1391	1323	1139	932
							Watts	697	679	653	622	591	550	486	431
						High	CFM	1868	1834	1786	1719	1636	1521	1345	1037
							Watts	870	839	799	754	713	657	591	503
RLPN-A048	Med	Low	80,000 [23.45]	1400/1800	10x10 1/2 HP [373] Speed Motor (PSC Motor)	Low	CFM	1355	1352	1340	1318	1275	1200	1094	912
							Watts	598	580	562	541	512	473	432	385
		Med	120,000 [35.17]			Med	CFM	1504	1490	1474	1440	1396	1324	1215	1087
							Watts	677	656	635	606	576	536	488	442
		High	135,000 [39.56]			High	CFM	1875	1846	1798	1740	1679	1602	1464	1268
							Watts	874	842	805	765	729	688	629	559
RLPN-A060	Med	Low	120,000 [35.17]	1750/2250	10x10 1 HP [745] Speed Motor (X-13 Motor)	Low	CFM	1678	1641	1599	1557	1521	1471	1430	1384
							Watts	354	364	386	409	430	456	470	491
						Med	CFM	1842	1820	1781	1741	1703	1659	1613	1536
							Watts	455	479	489	516	529	551	574	571
		High	135,000 [39.56]			High	CFM	2476	2417	2336	2229	2120	1965	1816	1625
							Watts	1010	989	977	918	862	781	707	620

[ ] Designates Metric Conversions

DIRECT-DRIVE 208/230/460 VOLT AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts							
								Enternal Static Pressure--Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RLQN-A036	Low (Tap 2)			1050/1350	10x10 1/2 HP [373] 3 Speed Motor (X-13 Motor)	Low (Tap 2)	CFM	1345	1302	1260	1220	1178	1122	1076	979
							Watts	215	230	245	260	274	284	303	320
		Med. (Tap 3)	80,000 [23.45]			Med. (Tap 3)	CFM	1438	1398	1360	1322	1284	1245	1200	1137
							Watts	261	276	291	306	320	334	348	362
		High (Tap 4)	120,000 [35.17]			High (Tap 4)	CFM	1614	1576	1538	1504	1463	1425	1388	1349
							Watts	360	382	398	411	427	441	454	466
RLQN-A048	Med (Tap 2)	Low (Tap 1)	80,000 [23.45]	1400/1800	10x10 3/4 HP [559] 4 Speed Motor (X-13 Motor)	Low (Tap 1)	CFM	1403	1345	1310	1269	1212	1164	1083	1028
							Watts	232	244	255	267	283	297	315	324
						Med. (Tap 2)	CFM	1677	1639	1597	1559	1522	1487	1432	1390
							Watts	354	367	382	396	412	425	442	459
		Med. (Tap 3)	100,000 [29.31]			Med. (Tap 3)	CFM	1677	1639	1597	1559	1522	1487	1432	1390
							Watts	354	367	382	396	412	425	442	459
		High (Tap 4)	135,000 [39.56]			High (Tap 4)	CFM	1795	1758	1718	1688	1645	1607	1571	1535
							Watts	429	445	459	473	493	508	525	541
RLQN-A060	Low Cool (Tap 1) High Cool (Tap 3)			1st Stage Cool 1350/1400 2nd Stage Cool 1750/2250	10x10 1 HP [745] 5 Speed Motor (X-13 Motor)	Low Cool (Tap 1)	CFM	1404	1369	1326	1265	1221	1166	1107	1043
							Watts	233	250	270	280	300	319	340	344
		Low (Tap 2)	100,000 [29.31]			Low (Tap 2)	CFM	1678	1641	1599	1557	1521	1471	1430	1384
							Watts	354	364	386	409	430	456	470	491
						Med. (Tap 3)	CFM	1842	1820	1781	1741	1703	1659	1613	1536
							Watts	455	479	489	516	529	551	574	571
						Med. (Tap 4)	CFM	1842	1820	1781	1741	1703	1659	1613	1536
							Watts	455	479	489	516	529	551	574	571
		High (Tap 3)	135,000 [39.56]			High (Tap 5)	CFM	2476	2417	2336	2229	2120	1965	1816	1625
							Watts	1010	989	977	918	862	781	707	620

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE-3 TON [10.55 Kw] THREE PHASE BELT DRIVE

Air Flow CFM [L/s]	Capacity 3 Ton [10.55 kW]																											
	Voltage 208/230/460/575, 3-Phase																											
	External Static Pressure - Inches of Water [kPa]																											
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
900 [425]	—	—	—	—	699	223	765	261	827	292	886	318	941	338	993	352	1042	360	1087	362	1129	358	1168	348	1203	332	1235	310	1264	282
1000 [472]	—	—	662	228	717	258	781	293	842	323	899	346	952	364	1002	376	1049	381	1093	381	1133	374	1170	362	1203	344	1233	320	1260	289
1100 [519]	—	—	667	275	737	295	798	328	857	355	912	377	964	392	1012	401	1057	404	1099	402	1137	393	1172	378	1204	358	1232	331	1257	298
1200 [566]	643	278	693	298	756	334	817	365	873	390	927	409	976	422	1023	428	1066	429	1106	424	1143	413	1176	396	1205	373	1232	344	1255	309
1300 [614]	661	316	716	341	777	376	835	404	890	426	942	443	990	453	1035	458	1076	456	1114	449	1149	435	1180	416	1208	391	1232	359	1254	322
1400 [661]	669	352	739	387	799	419	855	445	908	465	958	479	1004	487	1047	489	1087	485	1123	475	1156	460	1185	438	1211	410	1234	377	1253	337
1500 [708]	702	399	763	434	821	464	876	487	927	505	975	517	1019	523	1060	522	1098	516	1132	504	1163	486	1191	462	1215	432	1236	396	1254	354

NOTE: L-DRIVE LEFT OF BOLD LINE, M-DRIVE RIGHT OF BOLD LINE

Drive Package	L						M						N Drive (Field Supplied)
Motor H.P. [W]	1/2 [373]						1/2 [373]						1/2 [373]
Blower Sheave	6.9" Pitch Diameter						6.4" Pitch Diameter						5.7" Pitch Diameter
Motor Sheave	2.4" - 3.4" Pitch Diameter						3.4" - 4.4" Pitch Diameter						3.4" - 4.4" Pitch Diameter
Turns Open	0	1	**2**	3	4	5	0	1	2	**3**	4	5	RPM Range - 1030-1330
RPM	910	869	**818**	775	728	682	1176	1145	1108	**1060**	996	968	

COMPONENT AIR RESISTANCE

Component	Standard Indoor Airflow -- CFM [L/s]					
	1000 [472]	1200 [566]	1400 [661]	1600 [755]	1800 [850]	2000 [944]
	Resistance -- Inches Water [kPa]					
Wet Coil	0.035	0.040	0.060	0.070	0.085	0.100
Downflow	0.055	0.060	0.066	0.072	0.080	0.086
R.S.I. Economizer R.A. Damper	0.05	0.06	0.07	0.08	0.09	0.10

NOTES:

1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
2. Standard CFM @ .075 ibs./cu.ft.
3. Motor efficiency = 80%
4. BHP = Watts X Motor Efficiency/746.
5. Add component resistance to duct static to determine E.S.P as shown on charts.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE-4 TON [14.07 Kw] THREE PHASE BELT DRIVE

Air Flow CFM [L/s]	Capacity 4 Ton [14.07 kW]																											
	Voltage 208/230/460/575, 3-Phase																											
	External Static Pressure - Inches of Water [kPa]																											
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
1200 [566]	—	—	—	—	—	—	817	425	879	440	940	456	999	475	1057	496	1113	519	1168	545	1221	572	1272	602	1322	634	1371	669	1420	704
1300 [614]	—	—	—	—	—	—	838	437	899	457	958	479	1015	503	1071	529	1126	558	1178	589	1230	622	1279	657	1327	695	1374	734	1421	773
1400 [661]	—	—	—	—	806	418	861	457	919	482	976	510	1032	539	1086	571	1138	605	1189	641	1239	680	1286	720	1333	763	1377	808	1421	853
1500 [708]	—	—	—	—	825	458	883	486	940	517	995	549	1048	584	1101	622	1151	661	1200	703	1248	746	1294	792	1338	841	1382	890	1426	939
1600 [755]	—	—	798	449	849	490	905	523	960	559	1013	598	1065	638	1115	681	1164	725	1211	772	1257	821	1301	873	1343	926	1385	979	1427	1032
1700 [802]	—	—	817	493	873	530	928	569	981	611	1032	654	1082	700	1130	748	1177	798	1222	851	1266	905	1308	962	1349	1021	1390	1080	1431	1139
1800 [850]	791	490	844	537	898	579	950	624	1002	670	1051	719	1099	771	1146	824	1190	880	1234	937	1276	997	1316	1059	1355	1124	1394	1189	—	—
1900 [897]	816	543	870	589	923	637	973	687	1023	739	1070	793	1116	850	1161	908	1204	969	1245	1033	1285	1098	1324	1166	1361	1235	1398	1304	—	—
2000 [944]	845	599	897	650	947	703	996	758	1044	816	1089	875	1134	937	1176	1002	1217	1068	1257	1137	1295	1207	1332	1280	1367	1355	—	—	—	—

NOTE: L-DRIVE LEFT OF BOLD LINE, M-DRIVE RIGHT OF BOLD LINE

Drive Package	L						M						N Drive (Field Supplied)
Motor H.P. [W]	1/2 [373]						3/4 [559]						3/4 [559]
Blower Sheave	6.9" Pitch Diameter						6.4" Pitch Diameter						6.4" Pitch Diameter
Motor Sheave	2.8" - 3.8" Pitch Diameter						3.4" - 4.4" Pitch Diameter						4.0" - 5.0" Pitch Diameter
Turns Open	0	1	**2**	3	4	5	0	1	2	**3**	4	5	RPM Range - 1080-1350
RPM	1029	984	**950**	915	855	816	1281	1207	1174	**1141**	1111	1071	

COMPONENT AIR RESISTANCE

Component	Standard Indoor Airflow -- CFM [L/s]					
	1000 [472]	1200 [566]	1400 [661]	1600 [755]	1800 [850]	2000 [944]
	Resistance -- Inches Water [kPa]					
Wet Coil	0.035	0.040	0.060	0.070	0.085	0.100
Downflow	0.055	0.060	0.066	0.072	0.080	0.086
R.S.I. Economizer R.A.	0.05	0.06	0.07	0.08	0.09	0.10

NOTES:

1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
2. Standard CFM @ .075 ibs./cu.ft.
3. Motor efficiency = 80%
4. BHP = Watts X Motor Efficiency/746.
5. Add component resistance to duct static to determine E.S.P as shown on charts.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE-5 TON [17.6 Kw] THREE PHASE BELT DRIVE

Air Flow CFM [L/s]	Capacity 5 Ton [17.6 kW] - 13 SEER Voltage 208/230/460/575, 3-Phase External Static Pressure - Inches of Water [kPa]																											
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
1400 [661]	—	—	—	—	795	405	848	423	910	466	970	511	1029	557	1086	606	1142	655	1196	706	1249	758	1300	812	1350	868	1398	925	1438	965
1500 [708]	—	—	—	—	809	413	871	458	931	504	989	552	1046	602	1100	654	1155	705	1208	759	1259	815	1308	872	1356	930	1457	1125	1558	1320
1600 [755]	—	—	796	430	835	454	894	502	952	551	1009	602	1064	655	1118	709	1170	764	1220	821	1270	880	1317	940	1363	1001	1451	1212	1539	1423
1700 [802]	—	—	811	470	861	504	919	555	975	607	1030	661	1079	708	1135	773	1185	832	1234	892	1281	953	1327	1017	1371	1081	1442	1307	1513	1533
1800 [850]	792	485	831	510	888	563	944	616	999 (Tap 2)	672	1051	729	1094	760	1153	847	1201	908	1248	971	1293	1036	1337	1102	1380	1170	1440	1410	1500	1650
1900 [897]	804	521	861	575	916	630	970	686	1023	745	1074	805	1123	866	1171	929	1218	994	1263	1060	1307	1127	1349	1196	1389	1267	1443	1534	1497	1801
2000 [944]	836	591	891	647	945	706	997	765	1048	827	1098	894	1145	954	1191	1020	1236	1087	1279	1156	1320	1227	1361	1299	1399	1373	1437	1447	—	—
2100 [991]	870	669	923	729	975	790	1025	853	1074	917	1121	983	1167	1050	1211	1119	1254	1190	1295	1262	1335	1336	1374	1411	1410	1486	1446	1561	—	—
2200 [1038]	904	756	955	819	1005	883	1054	949	1101	1021	1146	1085	1190	1156	1232	1228	1273	1301	1313	1376	1351	1453	1387	1531	1422	1609	—	—	—	—
2300 [1085]	939	852	988	918	1036	985	1084	1058	1128	1124	1172	1196	1214	1270	1254	1345	1294	1421	1331	1499	1367	1579	1402	1615	1434	1634	—	—	—	—
2400 [1133]	975	957	1022	1025	1068	1096	1113	1167	1156	1241	1198	1316	1238	1392	1277	1470	1315	1550	1350	1631	1385	1713	1420	1748	—	—	—	—	—	—
2500 [1179]	1011	1070	1057	1142	1096	1126	1144	1290	1186	1366	1226	1444	1264	1523	1301	1604	1336	1687	1370	1771	—	—	—	—	—	—	—	—	—	—

NOTE: L-DRIVE LEFT OF BOLD LINE, M-DRIVE RIGHT OF BOLD LINE

Drive Package	L						M						N Drive (Field Supplied)
Motor H.P. [W]	3/4 [559]						1 [746]						1 [746]
Blower Sheave	6.9" Pitch Diameter						6.9" Pitch Diameter						5.7" Pitch Diameter
Motor Sheave	2.8" - 3.8" Pitch Diameter						4.0" - 5.0" Pitch Diameter						4.0" - 5.0" Pitch Diameter
Turns Open	0	1	**2**	3	4	5	0	1	2	**3**	4	5	RPM Range - 1210-1510
RPM	1025	992	**945**	909	867	810	1353	1305	1258	**1223**	1167	1130	

COMPONENT AIR RESISTANCE

Component	Standard Indoor Airflow -- CFM [L/s]					
	1600 [755]	1800 [850]	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]
	Resistance -- Inches Water [kPa]					
Wet Coil	0.070	0.085	0.100	0.110	0.120	0.125
Downflow	0.072	0.080	0.086	0.093	0.100	0.107
R.S.I. Economizer R.A. Damper	0.08	0.09	0.10	0.11	0.12	0.13

NOTES:

1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
2. Standard CFM @ .075 ibs./cu.ft.
3. Motor efficiency = 80%
4. BHP = Watts X Motor Efficiency/746.
5. Add component resistance to duct static to determine E.S.P as shown on charts.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE-5 TON [17.6 Kw] THREE PHASE BELT DRIVE

Air Flow CFM [L/s]	Capacity 5 Ton [17.6 kW] 14 SEER																											
	Voltage 208/230/460/575, 3-Phase																											
	External Static Pressure - Inches of Water [kPa]																											
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
1400 [661]	—	—	—	—	—	—	784	466	835	497	886	533	935	574	983	621	1030	674	1077	732	1122	795	1166	864	1209	939	1251	1019	1292	1104
1500 [708]	—	—	—	—	—	—	800	484	850	519	899	558	947	604	994	655	1040	711	1085	773	1129	841	1172	914	1214	992	1255	1076	1295	1166
1600 [755]	—	—	—	—	766	478	816	511	865	549	913	593	960	643	1006	698	1051	758	1095	824	1137	895	1179	972	1220	1055	1260	1143	1300	1231
1700 [802]	—	—	—	—	785	509	833	546	881	589	928	637	974	690	1018	749	1062	813	1105	883	1146	959	1187	1040	1227	1126	1265	1218	1303	1310
1800 [850]	—	—	755	505	804	550	851	591	898	637	943	689	988	747	1031	810	1074	878	1115	952	1156	1031	1195	1116	1234	1207	1271	1302	1308	1397
1900 [897]	716	491	776	560	823	600	869	645	915	695	959	751	1003	812	1045	879	1086	951	1127	1029	1166	1113	1204	1202	1242	1296	1278	1396	1314	1496
2000 [944]	745	562	797	615	843	658	889	707	933	762	976	821	1018	887	1059	958	1099	1034	1139	1116	1177	1203	1214	1296	1250	1394	1285	1498	1320	1602
2100 [991]	773	637	819	679	864	726	908	779	951	837	993	901	1034	970	1074	1045	1113	1125	1151	1211	1188	1303	1224	1399	1259	1502	1293	1609	—	—
2200 [1038]	797	706	842	751	886	803	929	860	971	922	1011	990	1051	1063	1090	1142	1128	1226	1165	1316	1200	1411	1235	1512	1269	1618	—	—	—	—
2300 [1085]	822	783	865	833	908	888	950	949	990	1015	1030	1087	1069	1164	1106	1247	1143	1335	1179	1429	1213	1528	1247	1633	1279	1743	—	—	—	—
2400 [1133]	847	870	889	924	931	983	971	1048	1011	1118	1049	1194	1087	1275	1123	1362	1159	1454	1193	1551	1227	1655	1259	1763	1291	1878	—	—	—	—
2500 [1179]	873	966	914	1023	954	1087	994	1155	1032	1229	1069	1309	1106	1394	1141	1485	1175	1581	1209	1683	1241	1790	1272	1903	—	—	—	—	—	—

NOTE: L-DRIVE LEFT OF BOLD LINE, M-DRIVE RIGHT OF BOLD LINE

Drive Package	L						M						N Drive (Field Supplied)
Motor H.P. [W]	3/4 [559]						1 [746]						1 [746]
Blower Sheave	6.9" Pitch Diameter						6.9" Pitch Diameter						6.4" Pitch Diameter
Motor Sheave	2.8" - 3.8" Pitch Diameter						4.0" - 5.0" Pitch Diameter						4.0" - 5.0" Pitch Diameter
Turns Open	0	1	**2**	3	4	5	0	1	2	**3**	4	5	RPM Range - 1080-1348
RPM	967	936	**900**	855	816	769	1248	1203	1163	**1123**	1078	1042	

COMPONENT AIR RESISTANCE

Component	Standard Indoor Airflow -- CFM [L/s]					
	1600 [755]	1800 [850]	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]
	Resistance -- Inches Water [kPa]					
Wet Coil	0.070	0.085	0.100	0.110	0.120	0.125
Downflow	0.072	0.080	0.086	0.093	0.100	0.107
R.S.I. Economizer R.A.	0.08	0.09	0.10	0.11	0.12	0.13

NOTES:

1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
2. Standard CFM @ .075 ibs./cu.ft.
3. Motor efficiency = 80%
4. BHP = Watts X Motor Efficiency/746.
5. Add component resistance to duct static to determine E.S.P as shown on charts.

[ ] Designates Metric Conversions

INDOOR AIRFLOW PERFORMANCE FOR 3-5 TON SELF-CONTAINED AIR CONDITIONERS
BELT DRIVE

5-TON 15 SEER 2-STAGE CV & DV MODELS		CFM Setting		CFM [L/s] Air Delivery/RPM/Watts-208/230/460 Volts														
				External Static Pressure--Inches W.C. [kPa]														
				0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.30]	1.3 [.32]	1.4 [.35]	1.5 [.37]
1st Stage Cooling	FACTORY SETTING	1400	CFM	1393	1418	1443	1463	1470	1448	1456	1463	1415	1403	1376	1341	1289	1265	1229
			RPM	610	688	754	800	873	940	992	1026	1080	1130	1160	1186	1213	1254	1292
			Watts	215	266	314	350	409	466	515	550	599	653	683	710	742	791	835
	OPTIONAL	1600	CFM	1579	1599	1626	1642	1647	1642	1651	1648	1644	1633	1616	1570	1523	1499	1397
			RPM	676	734	793	850	903	952	1004	1054	1095	1139	1186	1225	1265	1297	1321
			Watts	302	349	404	454	508	560	614	670	717	772	836	885	942	988	989
2nd Stage Cooling Fan & Heating	FACTORY SETTING	1800	CFM	1758	1784	1796	1801	1820	1825	1834	1826	1832	1830	1814	1817	1795	1682	1561
			RPM	722	782	836	874	932	971	1022	1065	1114	1150	1189	1231	1273	1319	1348
			Watts	392	451	508	547	615	664	728	786	854	908	968	1036	1106	1147	1127
	OPTIONAL	2000	CFM	2075	2087	2088	2085	2090	2101	2114	2106	2105	2101	2034	2001	1943	1855	1628
			RPM	798	843	897	936	981	1018	1057	1096	1136	1170	1203	1241	1272	1309	1349
			Watts	590	646	714	769	835	890	953	1014	1082	1137	1167	1193	1220	1241	1186
	OPTIONAL	2200	CFM	2222	2220	2239	2244	2261	2236	2216	2180	2146	2110	2051	2010	1958	1863	1636
			RPM	841	883	933	971	1008	1046	1075	1106	1141	1173	1207	1238	1273	1312	1351
			Watts	717	777	856	921	984	1037	1054	1083	1115	1143	1176	1201	1233	1250	1195

NOTE: Reference "UNITS WITH ECM MOTORS" in Table of Contents for airflow adjustments.

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 480	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	18	20	15	15	11	15
	A12D	11.2	13.5	20	20	17	20	11	15
	A15D	14.4	17.4	25	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A036DL	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A036DM	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A048DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	30	9	15	11	15
	A10D	9.6	11.6	18	30	15	15	11	15
	A12D	11.2	13.5	20	30	17	20	11	15
	A15D	14.4	17.4	25	30	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A048DL	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	31	35	30	30	11	15
A048DM	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A060DK	NONE	-	-	14	20	-	-	14	20
	A06D	5.6	6.7	14	20	9	15	14	20
	A10D	9.6	11.6	20	20	15	15	14	20
	A12D	11.2	13.5	22	25	17	20	14	20
	A15D	14.4	17.4	27	30	22	25	14	20
	A20D	19.2	23.3	35	35	30	30	14	20
A060DL	NONE	-	-	13	20	-	-	13	20
	A06D	5.6	6.7	13	20	9	15	13	20
	A10D	9.6	11.6	17	20	15	15	13	20
	A12D	11.2	13.5	19	20	17	20	13	20
	A15D	14.4	17.4	24	25	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
	A24D	24	28.9	39	40	37	40	13	20
A060DM	NONE	-	-	13	20	-	-	13	20
	A06D	5.6	6.7	13	20	9	15	13	20
	A10D	9.6	11.6	18	20	15	15	13	20
	A12D	11.2	13.5	20	20	17	20	13	20
	A15D	14.4	17.4	25	25	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
	A24D	24	28.9	39	40	37	40	13	20

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD								
	X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 208/240	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036CK	NONE	-	-	17/17	25/25	-	-	17/17	25/25
	A06C	4.2/5.6	11.7/13.5	20/22	25/25	15/17	15/20	17/17	25/25
	A10C	7.2/9.6	20/23.1	30/34	30/35	25/29	25/30	17/17	25/25
	A12C	8.4/11.2	23.4/27	35/39	35/40	30/34	30/35	17/17	25/25
	A15C	10.8/14.4	30.1/34.7	43/49	45/50	38/44	40/45	17/17	25/25
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	17/17	25/25
A036CL	NONE	-	-	16/16	20/20	-	-	16/16	20/20
	A06C	4.2/5.6	11.7/13.5	19/21	20/25	15/17	15/20	16/16	20/20
	A10C	7.2/9.6	20/23.1	29/33	30/35	25/29	25/30	16/16	20/20
	A12C	8.4/11.2	23.4/27	33/38	35/40	30/34	30/35	16/16	20/20
	A15C	10.8/14.4	30.1/34.7	42/47	45/50	38/44	40/45	16/16	20/20
	A20C	14.4/19.2	40/46.3	54/62	60/70	50/58	50/60	16/16	20/20
A036CM	NONE	-	-	16/16	20/20	-	-	16/16	20/20
	A06C	4.2/5.6	11.7/13.5	19/21	20/25	15/17	15/20	16/16	20/20
	A10C	7.2/9.6	20/23.1	29/33	30/35	25/29	25/30	16/16	20/20
	A12C	8.4/11.2	23.4/27	33/38	35/40	30/34	30/35	16/16	20/20
	A15C	10.8/14.4	30.1/34.7	42/47	45/50	38/44	40/45	16/16	20/20
	A20C	14.4/19.2	40/46.3	54/62	60/70	50/58	50/60	16/16	20/20
A048CK	NONE	-	-	22/22	35/35	-	-	22/22	35/35
	A06C	4.2/5.6	11.7/13.5	22/22	35/35	15/17	15/20	22/22	35/35
	A10C	7.2/9.6	20/23.1	30/34	35/35	25/29	25/30	22/22	35/35
	A12C	8.4/11.2	23.4/27	35/39	35/40	30/34	30/35	22/22	35/35
	A15C	10.8/14.4	30.1/34.7	43/49	45/50	38/44	40/45	22/22	35/35
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	22/22	35/35
A048CL	NONE	-	-	21/21	30/30	-	-	21/21	30/30
	A06C	4.2/5.6	11.7/13.5	21/21	30/30	15/17	15/20	21/21	30/30
	A10C	7.2/9.6	20/23.1	29/33	30/35	25/29	25/30	21/21	30/30
	A12C	8.4/11.2	23.4/27	33/38	35/40	30/34	30/35	21/21	30/30
	A15C	10.8/14.4	30.1/34.7	42/47	45/50	38/44	40/45	21/21	30/30
	A20C	14.4/19.2	40/46.3	54/62	60/70	50/58	50/60	21/21	30/30
A048CM	NONE	-	-	22/22	30/30	-	-	22/22	30/30
	A06C	4.2/5.6	11.7/13.5	22/22	30/30	15/17	15/20	22/22	30/30
	A10C	7.2/9.6	20/23.1	30/34	30/35	25/29	25/30	22/22	30/30
	A12C	8.4/11.2	23.4/27	34/39	35/40	30/34	30/35	22/22	30/30
	A15C	10.8/14.4	30.1/34.7	42/48	45/50	38/44	40/45	22/22	30/30
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	22/22	30/30
A060CK	NONE	-	-	27/27	40/40	-	-	27/27	40/40
	A06C	4.2/5.6	11.7/13.5	27/27	40/40	15/17	15/20	27/27	40/40
	A10C	7.2/9.6	20/23.1	32/35	40/40	25/29	25/30	27/27	40/40
	A12C	8.4/11.2	23.4/27	36/40	40/40	30/34	30/35	27/27	40/40
	A15C	10.8/14.4	30.1/34.7	44/50	45/50	38/44	40/45	27/27	40/40
	A20C	14.4/19.2	40/46.3	57/64	60/70	50/58	50/60	27/27	40/40
A060CL	NONE	-	-	26/26	40/40	-	-	26/26	40/40
	A06C	4.2/5.6	11.7/13.5	26/26	40/40	15/17	15/20	26/26	40/40
	A10C	7.2/9.6	20/23.1	30/34	40/40	25/29	25/30	26/26	40/40
	A12C	8.4/11.2	23.4/27	34/39	40/40	30/34	30/35	26/26	40/40
	A15C	10.8/14.4	30.1/34.7	42/48	45/50	38/44	40/45	26/26	40/40
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	26/26	40/40
A060CM	NONE	-	-	27/27	40/40	-	-	27/27	40/40
	A06C	4.2/5.6	11.7/13.5	27/27	40/40	15/17	15/20	27/27	40/40
	A10C	7.2/9.6	20/23.1	31/35	40/40	25/29	25/30	27/27	40/40
	A12C	8.4/11.2	23.4/27	35/39	40/40	30/34	30/35	27/27	40/40
	A15C	10.8/14.4	30.1/34.7	43/49	45/50	38/44	40/45	27/27	40/40
	A20C	14.4/19.2	40/46.3	56/63	60/70	50/58	50/60	27/27	40/40
	A24C	18/24	50/57.7	68/78	70/80	63/73	70/80	27/27	40/40

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD								
	X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 480	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	18	20	15	15	11	15
	A12D	11.2	13.5	20	20	17	20	11	15
	A15D	14.4	17.4	25	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A036DL	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A036DM	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A048DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	30	9	15	11	15
	A10D	9.6	11.6	18	30	15	15	11	15
	A12D	11.2	13.5	20	30	17	20	11	15
	A15D	14.4	17.4	25	30	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A048DL	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	31	35	30	30	11	15
A048DM	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A060DK	NONE	-	-	14	20	-	-	14	20
	A06D	5.6	6.7	14	20	9	15	14	20
	A10D	9.6	11.6	20	20	15	15	14	20
	A12D	11.2	13.5	22	25	17	20	14	20
	A15D	14.4	17.4	27	30	22	25	14	20
	A20D	19.2	23.3	35	35	30	30	14	20
A060DL	NONE	-	-	13	20	-	-	13	20
	A06D	5.6	6.7	13	20	9	15	13	20
	A10D	9.6	11.6	17	20	15	15	13	20
	A12D	11.2	13.5	19	20	17	20	13	20
	A15D	14.4	17.4	24	25	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
	A24D	24	28.9	39	40	37	40	13	20
A060DM	NONE	-	-	13	20	-	-	13	20
	A06D	5.6	6.7	13	20	9	15	13	20
	A10D	9.6	11.6	18	20	15	15	13	20
	A12D	11.2	13.5	20	20	17	20	13	20
	A15D	14.4	17.4	25	25	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
	A24D	24	28.9	39	40	37	40	13	20

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLNL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 208/240	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036JK	NONE	-	-	24/24	35/35	-	-	24/24	35/35
	A06J	4.2/5.6	20.2/23.3	31/35	35/35	26/30	30/30	24/24	35/35
	A10J	7.2/9.6	34.6/40	49/55	50/60	44/50	45/50	24/24	35/35
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	24/24	35/35
	A15J	10.8/14.4	51.9/60	70/80	70/80	65/75	70/80	24/24	35/35
	A20J	14.4/19.2	69.3/80	92/105	100/110	87/100	90/100	24/24	35/35
A048JK	NONE	-	-	31/31	50/50	-	-	31/31	50/50
	A06J	4.2/5.6	20.2/23.3	31/35	50/50	26/30	30/30	31/31	50/50
	A10J	7.2/9.6	34.6/40	49/55	50/60	44/50	45/50	31/31	50/50
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	31/31	50/50
	A15J	10.8/14.4	51.9/60	70/80	70/80	65/75	70/80	31/31	50/50
	A20J	14.4/19.2	69.3/80	92/105	100/110	87/100	90/100	31/31	50/50
A060JK	NONE	-	-	40/40	60/60	-	-	40/40	60/60
	A06J	4.2/5.6	20.2/23.3	40/40	60/60	26/30	30/30	40/40	60/60
	A10J	7.2/9.6	34.6/40	50/57	60/60	44/50	45/50	40/40	60/60
	A12J	8.4/11.2	40.4/46.7	57/65	60/70	51/59	60/60	40/40	60/60
	A15J	10.8/14.4	51.9/60	71/82	80/90	65/75	70/80	40/40	60/60
	A20J	14.4/19.2	69.3/80	93/107	100/110	87/100	90/100	40/40	60/60

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 600	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036YL	NONE	-	-	7	15	-	-	7	15
	A15Y	14.4	13.9	19	20	18	20	7	15
	A20Y	19.2	18.8	26	30	24	25	7	15
A036YM	NONE	-	-	7	15	-	-	7	15
	A15Y	14.4	13.9	19	20	18	20	7	15
	A20Y	19.2	18.8	26	30	24	25	7	15
A048YL	NONE	-	-	8	15	-	-	8	15
	A15Y	14.4	13.9	19	20	18	20	8	15
	A20Y	19.2	18.8	26	30	24	25	8	15
A048YM	NONE	-	-	8	15	-	-	8	15
	A15Y	14.4	13.9	19	20	18	20	8	15
	A20Y	19.2	18.8	26	30	24	25	8	15
A060YL	NONE	-	-	10	15	-	-	10	15
	A15Y	14.4	13.9	19	20	18	20	10	15
	A20Y	19.2	18.8	26	30	24	25	10	15
A060YM	NONE	-	-	10	15	-	-	10	15
	A15Y	14.4	13.9	20	20	18	20	10	15
	A20Y	19.2	18.8	26	30	24	25	10	15

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLNL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD								
	X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLPN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 208/240	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036CK	NONE	-	-	17/17	25/25	-	-	17/17	25/25
	A06C	4.2/5.6	11.7/13.5	20/22	25/25	15/17	15/20	17/17	25/25
	A10C	7.2/9.6	20/23.1	30/34	30/35	25/29	25/30	17/17	25/25
	A12C	8.4/11.2	23.4/27	35/39	35/40	30/34	30/35	17/17	25/25
	A15C	10.8/14.4	30.1/34.7	43/49	45/50	38/44	40/45	17/17	25/25
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	17/17	25/25
A036CL	NONE	-	-	16/16	20/20	-	-	16/16	20/20
	A06C	4.2/5.6	11.7/13.5	19/21	20/25	15/17	15/20	16/16	20/20
	A10C	7.2/9.6	20/23.1	29/33	30/35	25/29	25/30	16/16	20/20
	A12C	8.4/11.2	23.4/27	33/38	35/40	30/34	30/35	16/16	20/20
	A15C	10.8/14.4	30.1/34.7	42/47	45/50	38/44	40/45	16/16	20/20
	A20C	14.4/19.2	40/46.3	54/62	60/70	50/58	50/60	16/16	20/20
A036CM	NONE	-	-	16/16	20/20	-	-	16/16	20/20
	A06C	4.2/5.6	11.7/13.5	19/21	20/25	15/17	15/20	16/16	20/20
	A10C	7.2/9.6	20/23.1	29/33	30/35	25/29	25/30	16/16	20/20
	A12C	8.4/11.2	23.4/27	33/38	35/40	30/34	30/35	16/16	20/20
	A15C	10.8/14.4	30.1/34.7	42/47	45/50	38/44	40/45	16/16	20/20
	A20C	14.4/19.2	40/46.3	54/62	60/70	50/58	50/60	16/16	20/20
A048CK	NONE	-	-	22/22	35/35	-	-	22/22	35/35
	A06C	4.2/5.6	11.7/13.5	22/22	35/35	15/17	15/20	22/22	35/35
	A10C	7.2/9.6	20/23.1	30/34	35/35	25/29	25/30	22/22	35/35
	A12C	8.4/11.2	23.4/27	35/39	35/40	30/34	30/35	22/22	35/35
	A15C	10.8/14.4	30.1/34.7	43/49	45/50	38/44	40/45	22/22	35/35
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	22/22	35/35
A048CL	NONE	-	-	21/21	30/30	-	-	21/21	30/30
	A06C	4.2/5.6	11.7/13.5	21/21	30/30	15/17	15/20	21/21	30/30
	A10C	7.2/9.6	20/23.1	29/33	30/35	25/29	25/30	21/21	30/30
	A12C	8.4/11.2	23.4/27	33/38	35/40	30/34	30/35	21/21	30/30
	A15C	10.8/14.4	30.1/34.7	42/47	45/50	38/44	40/45	21/21	30/30
	A20C	14.4/19.2	40/46.3	54/62	60/70	50/58	50/60	21/21	30/30
A048CM	NONE	-	-	22/22	30/30	-	-	22/22	30/30
	A06C	4.2/5.6	11.7/13.5	22/22	30/30	15/17	15/20	22/22	30/30
	A10C	7.2/9.6	20/23.1	30/34	30/35	25/29	25/30	22/22	30/30
	A12C	8.4/11.2	23.4/27	34/39	35/40	30/34	30/35	22/22	30/30
	A15C	10.8/14.4	30.1/34.7	42/48	45/50	38/44	40/45	22/22	30/30
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	22/22	30/30
A060CK	NONE	-	-	30/30	45/45	-	-	30/30	45/45
	A06C	4.2/5.6	11.7/13.5	30/30	45/45	15/17	15/20	30/30	45/45
	A10C	7.2/9.6	20/23.1	35/39	45/45	25/29	25/30	30/30	45/45
	A12C	8.4/11.2	23.4/27	39/44	45/45	30/34	30/35	30/30	45/45
	A15C	10.8/14.4	30.1/34.7	48/53	50/60	38/44	40/45	30/30	45/45
	A20C	14.4/19.2	40/46.3	60/68	60/70	50/58	50/60	30/30	45/45
A060CL	NONE	-	-	26/26	40/40	-	-	26/26	40/40
	A06C	4.2/5.6	11.7/13.5	26/26	40/40	15/17	15/20	26/26	40/40
	A10C	7.2/9.6	20/23.1	30/34	40/40	25/29	25/30	26/26	40/40
	A12C	8.4/11.2	23.4/27	34/39	40/40	30/34	30/35	26/26	40/40
	A15C	10.8/14.4	30.1/34.7	42/48	45/50	38/44	40/45	26/26	40/40
	A20C	14.4/19.2	40/46.3	55/63	60/70	50/58	50/60	26/26	40/40
A060CM	NONE	-	-	27/27	40/40	-	-	27/27	40/40
	A06C	4.2/5.6	11.7/13.5	27/27	40/40	15/17	15/20	27/27	40/40
	A10C	7.2/9.6	20/23.1	31/35	40/40	25/29	25/30	27/27	40/40
	A12C	8.4/11.2	23.4/27	35/39	40/40	30/34	30/35	27/27	40/40
	A15C	10.8/14.4	30.1/34.7	43/49	45/50	38/44	40/45	27/27	40/40
	A20C	14.4/19.2	40/46.3	56/63	60/70	50/58	50/60	27/27	40/40
	A24C	18/24	50/57.7	68/78	70/80	63/73	70/80	27/27	40/40

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLNL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD								
	X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLPN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 480	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	18	20	15	15	11	15
	A12D	11.2	13.5	20	20	17	20	11	15
	A15D	14.4	17.4	25	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A036DL	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A036DM	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	32	35	30	30	10	15
A048DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	18	20	15	15	11	15
	A12D	11.2	13.5	20	20	17	20	11	15
	A15D	14.4	17.4	25	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A048DL	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	31	35	30	30	11	15
A048DM	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A060DK	NONE	-	-	15	20	-	-	15	20
	A06D	5.6	6.7	15	20	9	15	15	20
	A10D	9.6	11.6	20	20	15	15	15	20
	A12D	11.2	13.5	22	25	17	20	15	20
	A15D	14.4	17.4	27	30	22	25	15	20
	A20D	19.2	23.3	35	35	30	30	15	20
A060DL	NONE	-	-	13	20	-	-	13	20
	A06D	5.6	6.7	13	20	9	15	13	20
	A10D	9.6	11.6	17	20	15	15	13	20
	A12D	11.2	13.5	19	20	17	20	13	20
	A15D	14.4	17.4	24	25	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
	A24D	24	28.9	39	40	37	40	13	20
A060DM	NONE	-	-	13	20	-	-	13	20
	A06D	5.6	6.7	13	20	9	15	13	20
	A10D	9.6	11.6	18	20	15	15	13	20
	A12D	11.2	13.5	20	20	17	20	13	20
	A15D	14.4	17.4	25	25	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
	A24D	24	28.9	39	40	37	40	13	20

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLNL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLPN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 208/240	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036JK	NONE	-	-	24/24	35/35	-	-	24/24	35/35
	A06J	4.2/5.6	20.2/23.3	31/35	35/35	26/30	30/30	24/24	35/35
	A10J	7.2/9.6	34.6/40	49/55	50/60	44/50	45/50	24/24	35/35
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	24/24	35/35
	A15J	10.8/14.4	51.9/60	70/80	70/80	65/75	70/80	24/24	35/35
	A20J	14.4/19.2	69.3/80	92/105	100/110	87/100	90/100	24/24	35/35
A048JK	NONE	-	-	31/31	50/50	-	-	31/31	50/50
	A06J	4.2/5.6	20.2/23.3	31/35	50/50	26/30	30/30	31/31	50/50
	A10J	7.2/9.6	34.6/40	49/55	50/60	44/50	45/50	31/31	50/50
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	31/31	50/50
	A15J	10.8/14.4	51.9/60	70/80	70/80	65/75	70/80	31/31	50/50
	A20J	14.4/19.2	69.3/80	92/105	100/110	87/100	90/100	31/31	50/50
A060JK	NONE	-	-	43/43	60/60	-	-	43/43	60/60
	A06J	4.2/5.6	20.2/23.3	43/43	60/60	26/30	30/30	43/43	60/60
	A10J	7.2/9.6	34.6/40	53/60	60/60	44/50	45/50	43/43	60/60
	A12J	8.4/11.2	40.4/46.7	61/68	60/70	51/59	60/60	43/43	60/60
	A15J	10.8/14.4	51.9/60	75/85	80/90	65/75	70/80	43/43	60/60
	A20J	14.4/19.2	69.3/80	97/110	100/110	87/100	90/100	43/43	60/60

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLPN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 600	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036YL	NONE	-	-	7	15	-	-	7	15
	A15Y	14.4	13.9	19	20	18	20	7	15
	A20Y	19.2	18.8	26	30	24	25	7	15
A036YM	NONE	-	-	7	15	-	-	7	15
	A15Y	14.4	13.9	19	20	18	20	7	15
	A20Y	19.2	18.8	26	30	24	25	7	15
A048YL	NONE	-	-	8	15	-	-	8	15
	A15Y	14.4	13.9	19	20	18	20	8	15
	A20Y	19.2	18.8	26	30	24	25	8	15
A048YM	NONE	-	-	8	15	-	-	8	15
	A15Y	14.4	13.9	19	20	18	20	8	15
	A20Y	19.2	18.8	26	30	24	25	8	15
A060YL	NONE	-	-	10	15	-	-	10	15
	A15Y	14.4	13.9	19	20	18	20	10	15
	A20Y	19.2	18.8	26	30	24	25	10	15
A060YM	NONE	-	-	10	15	-	-	10	15
	A15Y	14.4	13.9	20	20	18	20	10	15
	A20Y	19.2	18.8	26	30	24	25	10	15

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLNL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 208/240	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036JK	NONE	-	-	24/24	35/35	-	-	24/24	35/35
	A06J	4.2/5.6	20.2/23.3	31/35	35/35	26/30	30/30	24/24	35/35
	A10J	7.2/9.6	34.6/40	49/55	50/60	44/50	45/50	24/24	35/35
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	24/24	35/35
	A15J	10.8/14.4	51.9/60	70/80	70/80	65/75	70/80	24/24	35/35
	A20J	14.4/19.2	69.3/80	92/105	100/110	87/100	90/100	24/24	35/35
A048JK	NONE	-	-	31/31	50/50	-	-	31/31	50/50
	A06J	4.2/5.6	20.2/23.3	31/35	50/50	26/30	30/30	31/31	50/50
	A10J	7.2/9.6	34.6/40	49/55	50/60	44/50	45/50	31/31	50/50
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	31/31	50/50
	A15J	10.8/14.4	51.9/60	70/80	70/80	65/75	70/80	31/31	50/50
	A20J	14.4/19.2	69.3/80	92/105	100/110	87/100	90/100	31/31	50/50
A060JK	NONE	-	-	40/40	60/60	-	-	40/40	60/60
	A06J	4.2/5.6	20.2/23.3	40/40	60/60	26/30	30/30	40/40	60/60
	A10J	7.2/9.6	34.6/40	50/57	60/60	44/50	45/50	40/40	60/60
	A12J	8.4/11.2	40.4/46.7	57/65	60/70	51/59	60/60	40/40	60/60
	A15J	10.8/14.4	51.9/60	71/82	80/90	65/75	70/80	40/40	60/60
	A20J	14.4/19.2	69.3/80	93/107	100/110	87/100	90/100	40/40	60/60

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLNN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 600	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036YL	NONE	-	-	7	15	-	-	7	15
	A15Y	14.4	13.9	19	20	18	20	7	15
	A20Y	19.2	18.8	26	30	24	25	7	15
A036YM	NONE	-	-	7	15	-	-	7	15
	A15Y	14.4	13.9	19	20	18	20	7	15
	A20Y	19.2	18.8	26	30	24	25	7	15
A048YL	NONE	-	-	8	15	-	-	8	15
	A15Y	14.4	13.9	19	20	18	20	8	15
	A20Y	19.2	18.8	26	30	24	25	8	15
A048YM	NONE	-	-	8	15	-	-	8	15
	A15Y	14.4	13.9	19	20	18	20	8	15
	A20Y	19.2	18.8	26	30	24	25	8	15
A060YL	NONE	-	-	10	15	-	-	10	15
	A15Y	14.4	13.9	19	20	18	20	10	15
	A20Y	19.2	18.8	26	30	24	25	10	15
A060YM	NONE	-	-	10	15	-	-	10	15
	A15Y	14.4	13.9	20	20	18	20	10	15
	A20Y	19.2	18.8	26	30	24	25	10	15

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLPL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD								
	X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLQN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 480	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036DK	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	18	20	15	15	11	15
	A12D	11.2	13.5	20	20	17	20	11	15
	A15D	14.4	17.4	25	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A036DL	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A036DM	NONE	-	-	10	15	-	-	10	15
	A06D	5.6	6.7	11	15	9	15	10	15
	A10D	9.6	11.6	17	20	15	15	10	15
	A12D	11.2	13.5	19	20	17	20	10	15
	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
A048DK	NONE	-	-	12	15	-	-	12	15
	A06D	5.6	6.7	13	15	9	15	12	15
	A10D	9.6	11.6	19	20	15	15	12	15
	A12D	11.2	13.5	21	25	17	20	12	15
	A15D	14.4	17.4	26	30	22	25	12	15
	A20D	19.2	23.3	34	35	30	30	12	15
A048DL	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	31	35	30	30	11	15
A048DM	NONE	-	-	11	15	-	-	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
	A10D	9.6	11.6	17	20	15	15	11	15
	A12D	11.2	13.5	19	20	17	20	11	15
	A15D	14.4	17.4	24	25	22	25	11	15
	A20D	19.2	23.3	32	35	30	30	11	15
A060DK	NONE	-	-	15	20	-	-	15	20
	A06D	5.6	6.7	15	20	9	15	15	20
	A10D	9.6	11.6	20	20	15	15	15	20
	A12D	11.2	13.5	22	25	17	20	15	20
	A15D	14.4	17.4	27	30	22	25	15	20
	A20D	19.2	23.3	35	35	30	30	15	20
A060DV	NONE	-	-	16	20	-	-	16	20
	A06D	5.6	6.7	16	20	9	15	16	20
	A10D	9.6	11.6	21	25	15	15	16	20
	A12D	11.2	13.5	23	25	17	20	16	20
	A15D	14.4	17.4	28	30	22	25	16	20
	A20D	19.2	23.3	35	35	30	30	16	20
	A24D	24	28.9	42	45	37	40	16	20

AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION–RLPL

Rheem Air Conditioning Division
Rating Plate Stamping Instructions
Electric Heat Data for Package Units

	RHEEM/RUUD								
	X	Y	Z	AA	BB	CC	DD	EE	FF
UNIT MODEL NUMBER RLQN-	HEATER KIT MODEL NO. RXJJ-	HEATER KW @ 208/240	HEATER KIT FLA	UNIT MIN. CKT. AMPACITY	MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	HEATER KIT MIN. CKT. AMPACITY	HEATER KIT MAX FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)	AIR COND. MIN. CKT. AMPACITY	AIR COND. MAX. FUSE OR CKT. BKR. SIZE (CKT. BKR. MUST BE HACR TYPE FOR USA)
A036JK	NONE	-	-	24/24	35/35	-	-	24/24	35/35
	A06J	4.2/5.6	20.2/23.3	31/35	35/35	26/30	30/30	24/24	35/35
	A10J	7.2/9.6	34.6/40	49/56	50/60	44/50	45/50	24/24	35/35
	A12J	8.4/11.2	40.4/46.7	56/64	60/70	51/59	60/60	24/24	35/35
	A15J	10.8/14.4	51.9/60	71/81	70/90	65/75	70/80	24/24	35/35
	A20J	14.4/19.2	69.3/80	92/106	100/110	87/100	90/100	24/24	35/35
A048JK	NONE	-	-	33/33	50/50	-	-	33/33	50/50
	A06J	4.2/5.6	20.2/23.3	33/37	50/50	26/30	30/30	33/33	50/50
	A10J	7.2/9.6	34.6/40	51/58	60/60	44/50	45/50	33/33	50/50
	A12J	8.4/11.2	40.4/46.7	59/66	60/70	51/59	60/60	33/33	50/50
	A15J	10.8/14.4	51.9/60	73/83	80/90	65/75	70/80	33/33	50/50
	A20J	14.4/19.2	69.3/80	95/108	100/110	87/100	90/100	33/33	50/50
A060JK	NONE	-	-	46/46	60/60	-	-	46/46	60/60
	A06J	4.2/5.6	20.2/23.3	46/46	70/70	26/30	30/30	46/46	60/60
	A10J	7.2/9.6	34.6/40	53/60	70/70	44/50	45/50	46/46	60/60
	A12J	8.4/11.2	40.4/46.7	61/68	70/70	51/59	60/60	46/46	60/60
	A15J	10.8/14.4	51.9/60	75/85	80/90	65/75	70/80	46/46	60/60
	A20J	14.4/19.2	69.3/80	97/110	100/110	87/100	90/100	46/46	60/60

FIGURE 20
WIRING DIAGRAM

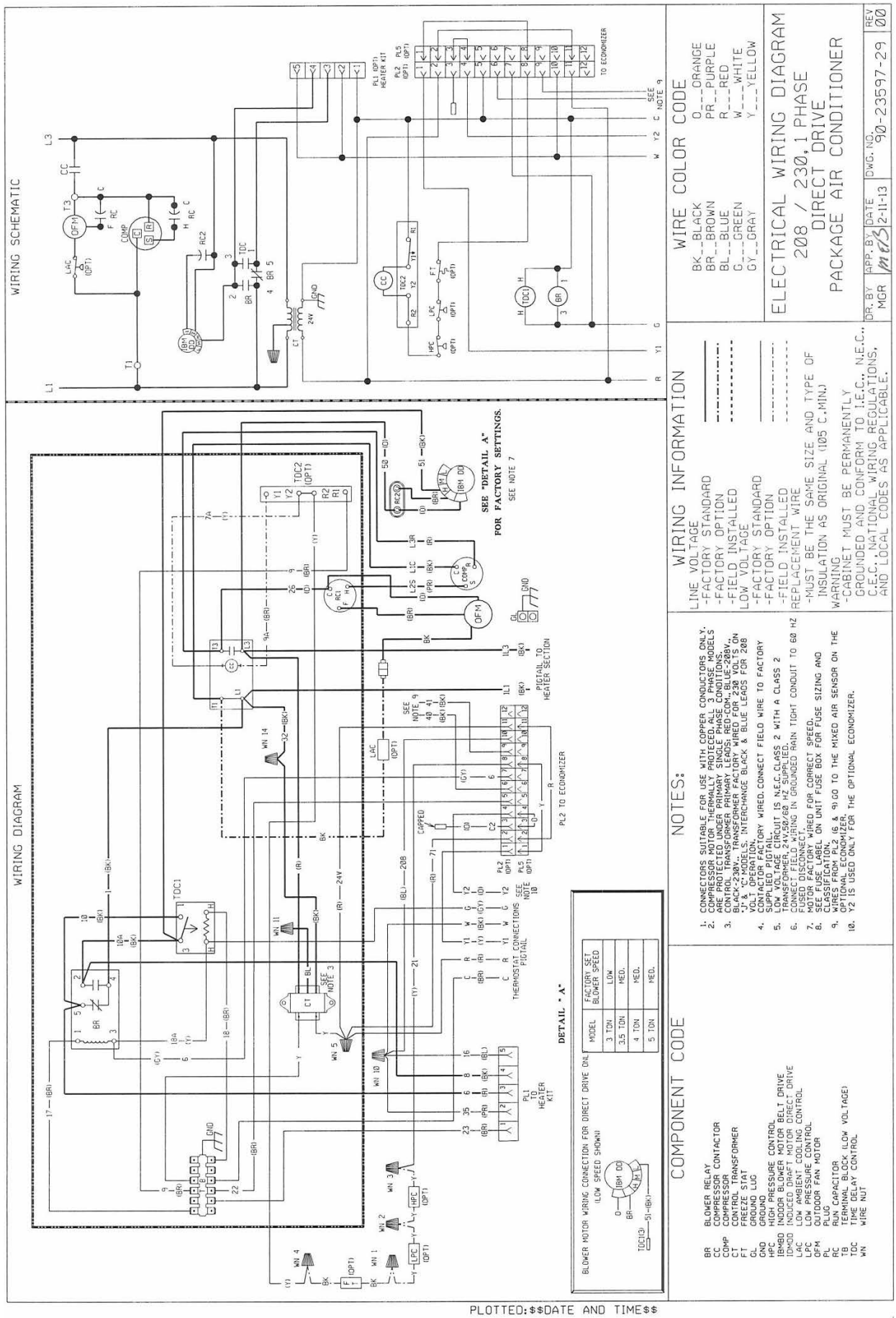


FIGURE 21
WIRING DIAGRAM

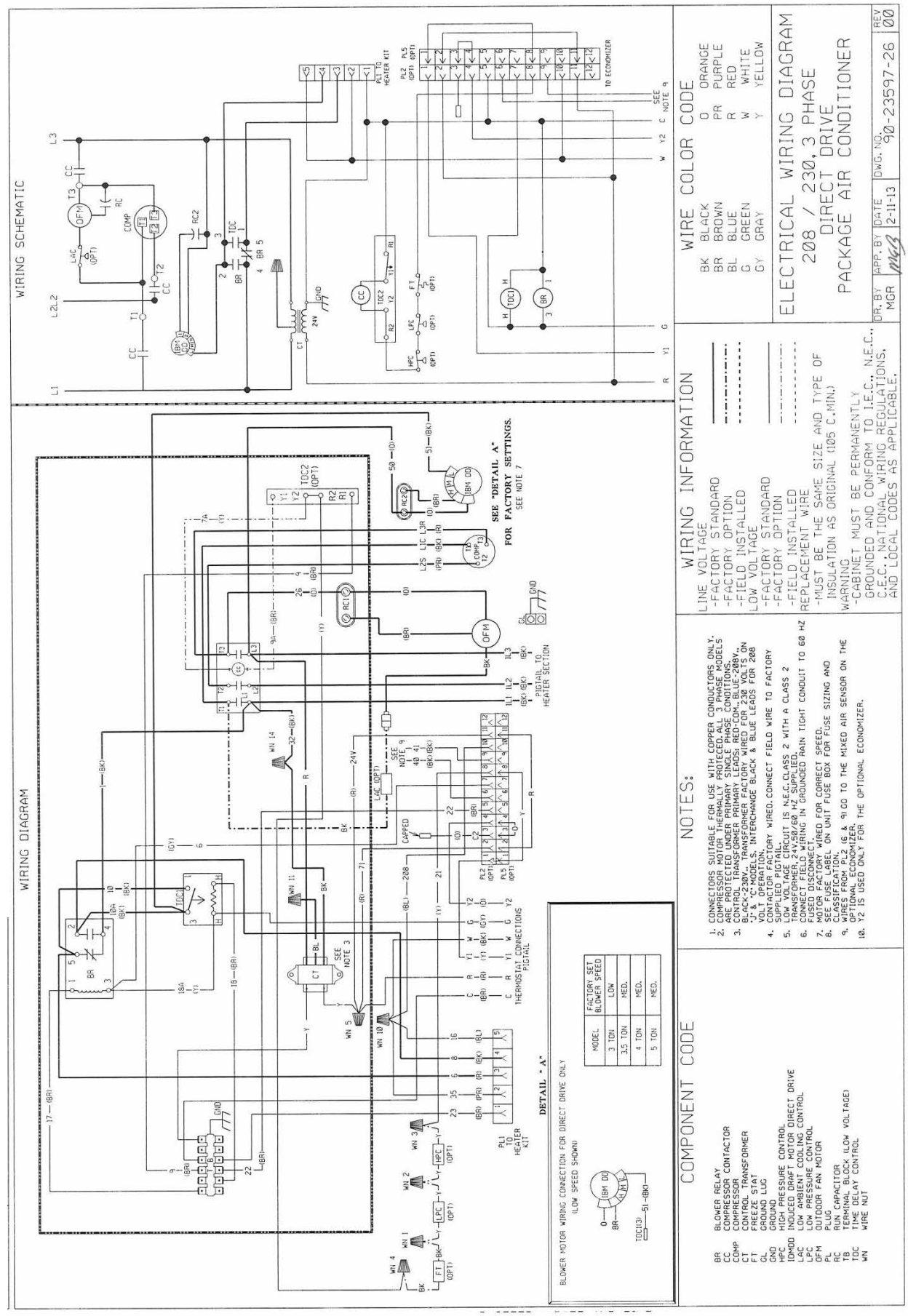


FIGURE 22
WIRING DIAGRAM

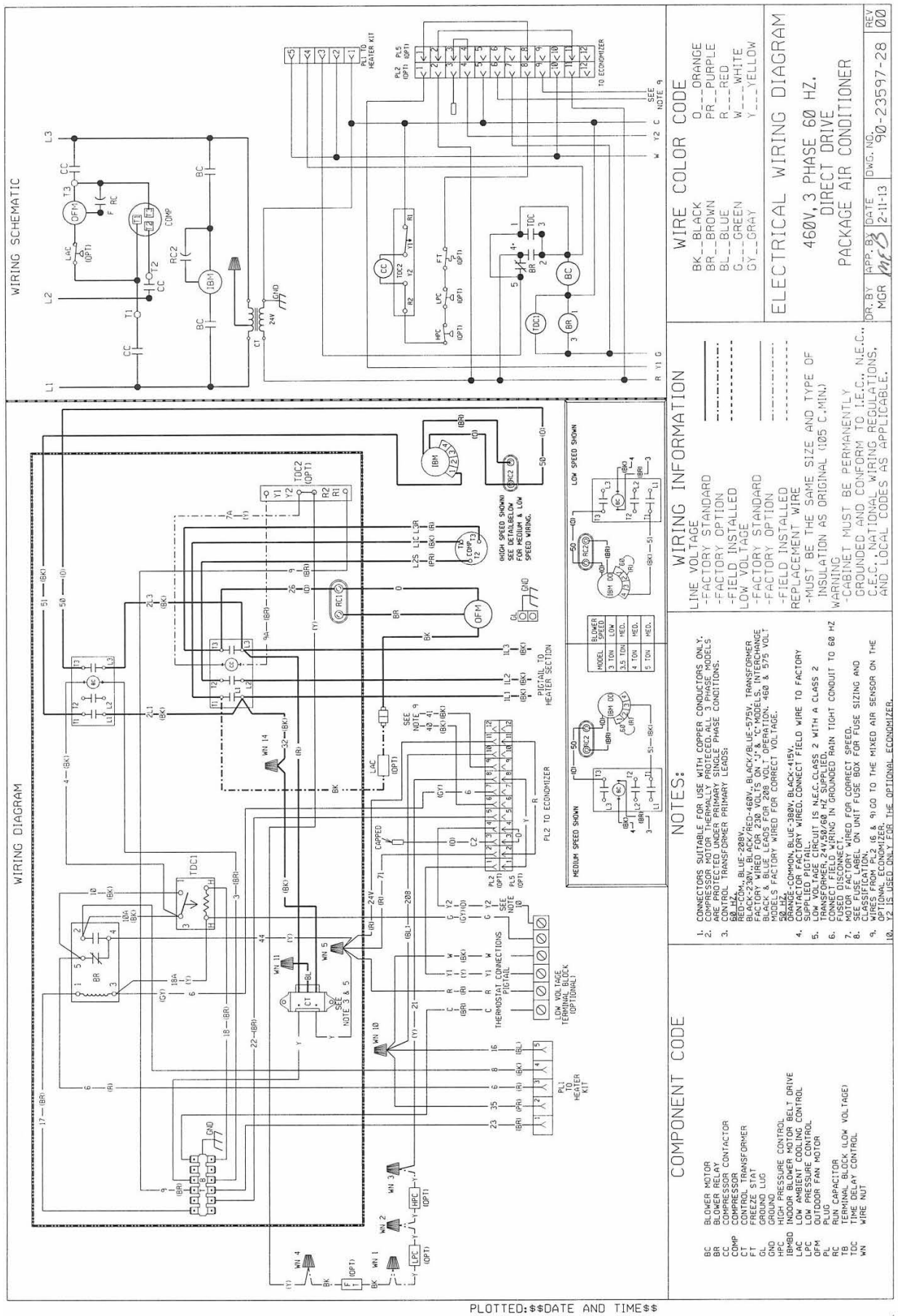
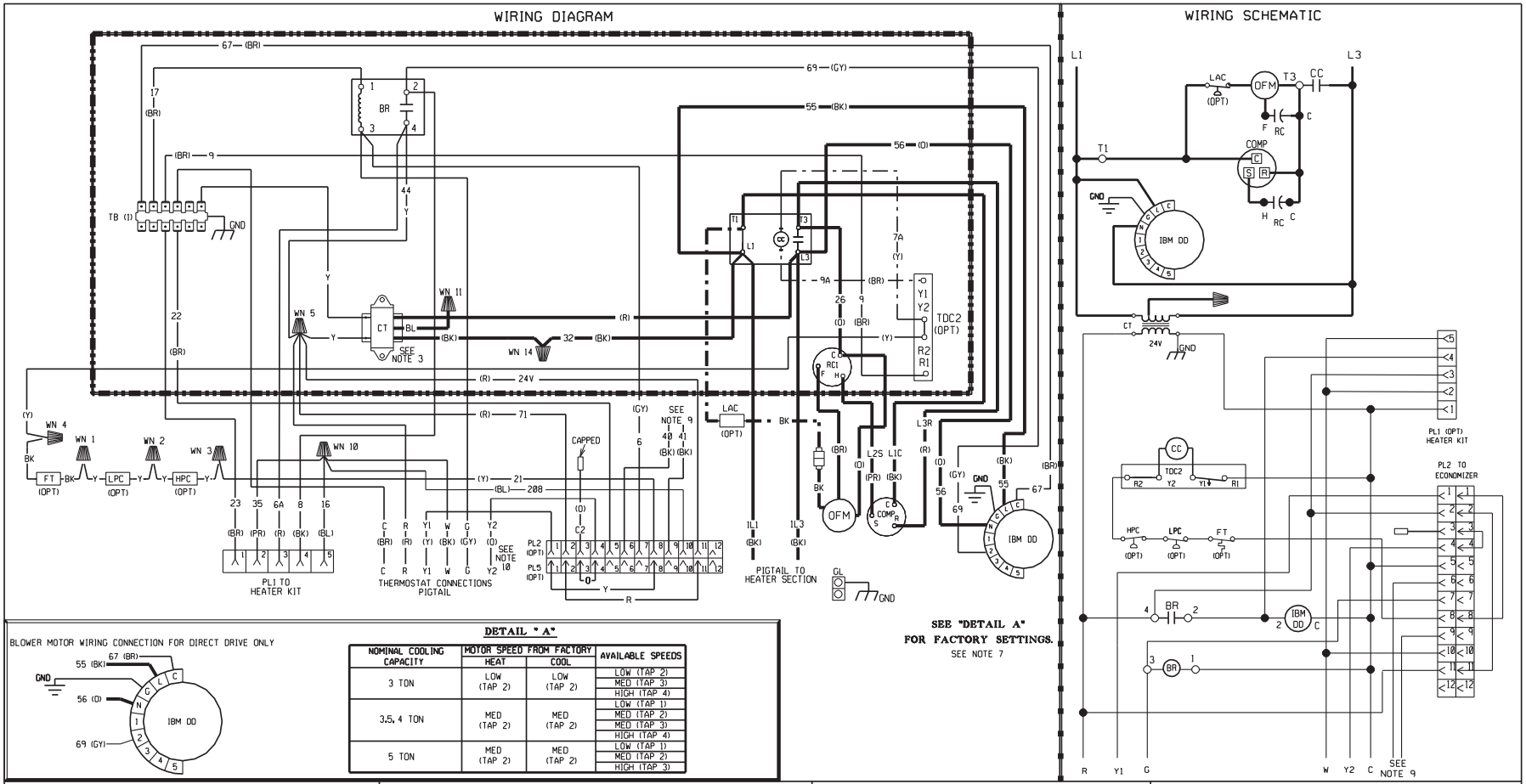


FIGURE 23
WIRING DIAGRAM



SEE "DETAIL A" FOR FACTORY SETTINGS.
SEE NOTE 7

BLOWER MOTOR WIRING CONNECTION FOR DIRECT DRIVE ONLY

DETAIL " A"

NOMINAL COOLING CAPACITY	MOTOR SPEED FROM FACTORY		AVAILABLE SPEEDS
	HEAT	COOL	
3 TON	LOW (TAP 2)	LOW (TAP 2)	LOW (TAP 2)
			MED (TAP 3)
			HIGH (TAP 4)
3.5, 4 TON	MED (TAP 2)	MED (TAP 2)	LOW (TAP 1)
			MED (TAP 2)
			MED (TAP 3)
			HIGH (TAP 4)
5 TON	MED (TAP 2)	MED (TAP 2)	LOW (TAP 1)
			MED (TAP 2)
			HIGH (TAP 3)

COMPONENT CODE

BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
FT	FREEZE STAT
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBMDD	IDOOR BLOWER MOTOR DIRECT DRIVE
LAC	LOW AMBIENT COOLING CONTROL
LPC	LOW PRESSURE CONTROL
OFM	OUTDOOR FAN MOTOR
PL	PLUG
RC	RUN CAPACITOR
TB	TERMINAL BLOCK (LOW VOLTAGE)
TDC	TIME DELAY CONTROL
WN	WIRE NUT

NOTES:

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. CONTROL TRANSFORMER PRIMARY LEADS: RED-COM., BLUE-208V., BLACK-230V.. TRANSFORMER FACTORY WIRED FOR 230 VOLTS ON "J" & "C" MODELS. INTERCHANGE BLACK & BLUE LEADS FOR 208 VOLT OPERATION.
4. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED PIGTAIL.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
7. MOTOR FACTORY WIRED FOR CORRECT SPEED.
8. SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION.
9. WIRES FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

WIRING INFORMATION

LINE VOLTAGE
- -FACTORY STANDARD
- -FACTORY OPTION
- -FIELD INSTALLED

LOW VOLTAGE
- -FACTORY STANDARD
- -FACTORY OPTION
- -FIELD INSTALLED

REPLACEMENT WIRE
- -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C.MIN.)

WARNING
- -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

WIRE COLOR CODE

BK__BLACK	O___ORANGE
BR__BROWN	PR__PURPLE
BL__BLUE	R___RED
G___GREEN	W___WHITE
GY__GRAY	Y___YELLOW

ELECTRICAL WIRING DIAGRAM
208 / 230, 1 PHASE
DIRECT DRIVE / X-MOTOR
PACKAGE AIR CONDITIONER

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR		2-11-13	90-23597-24	00

FIGURE 24
WIRING DIAGRAM

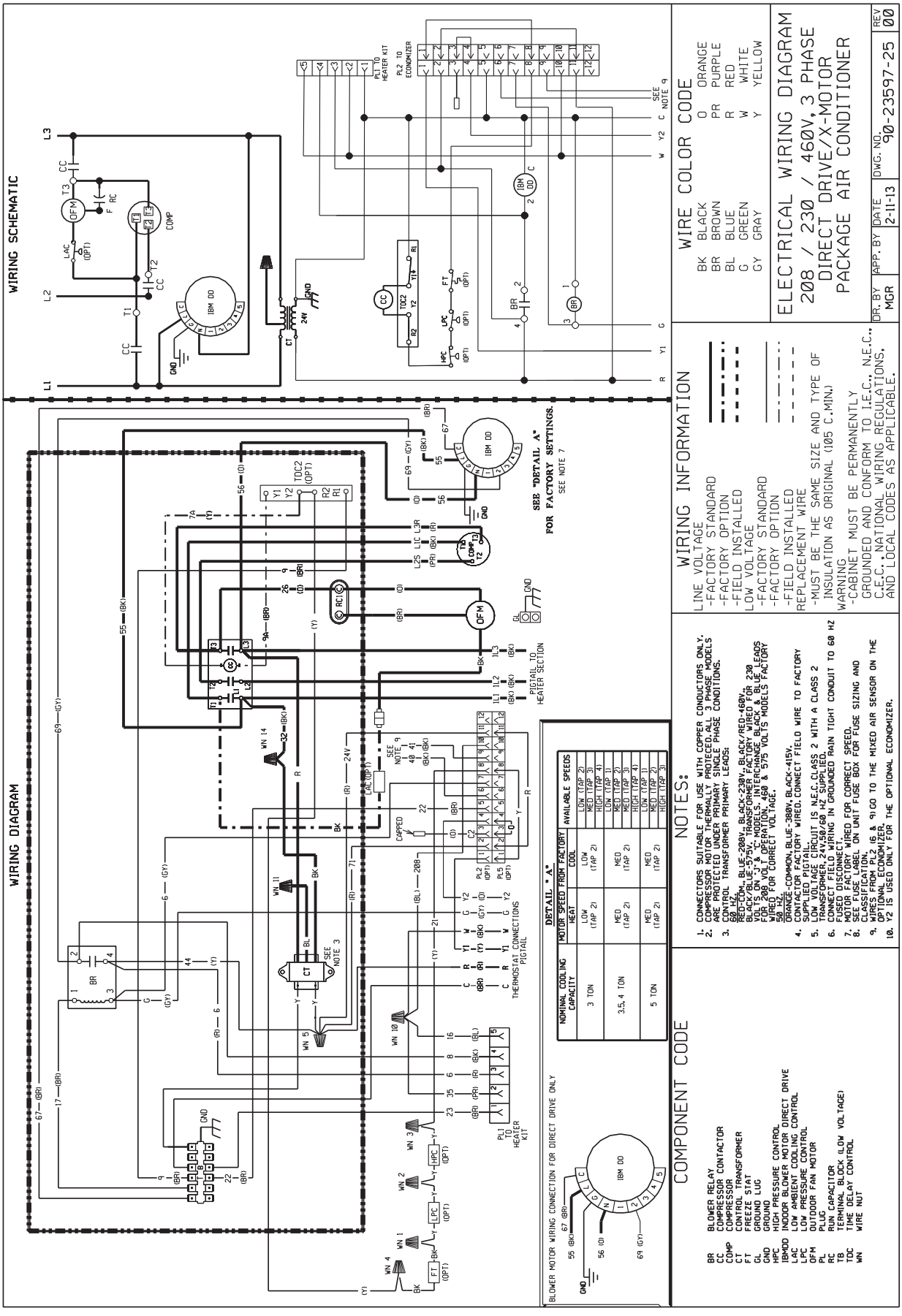


FIGURE 25
WIRING DIAGRAM

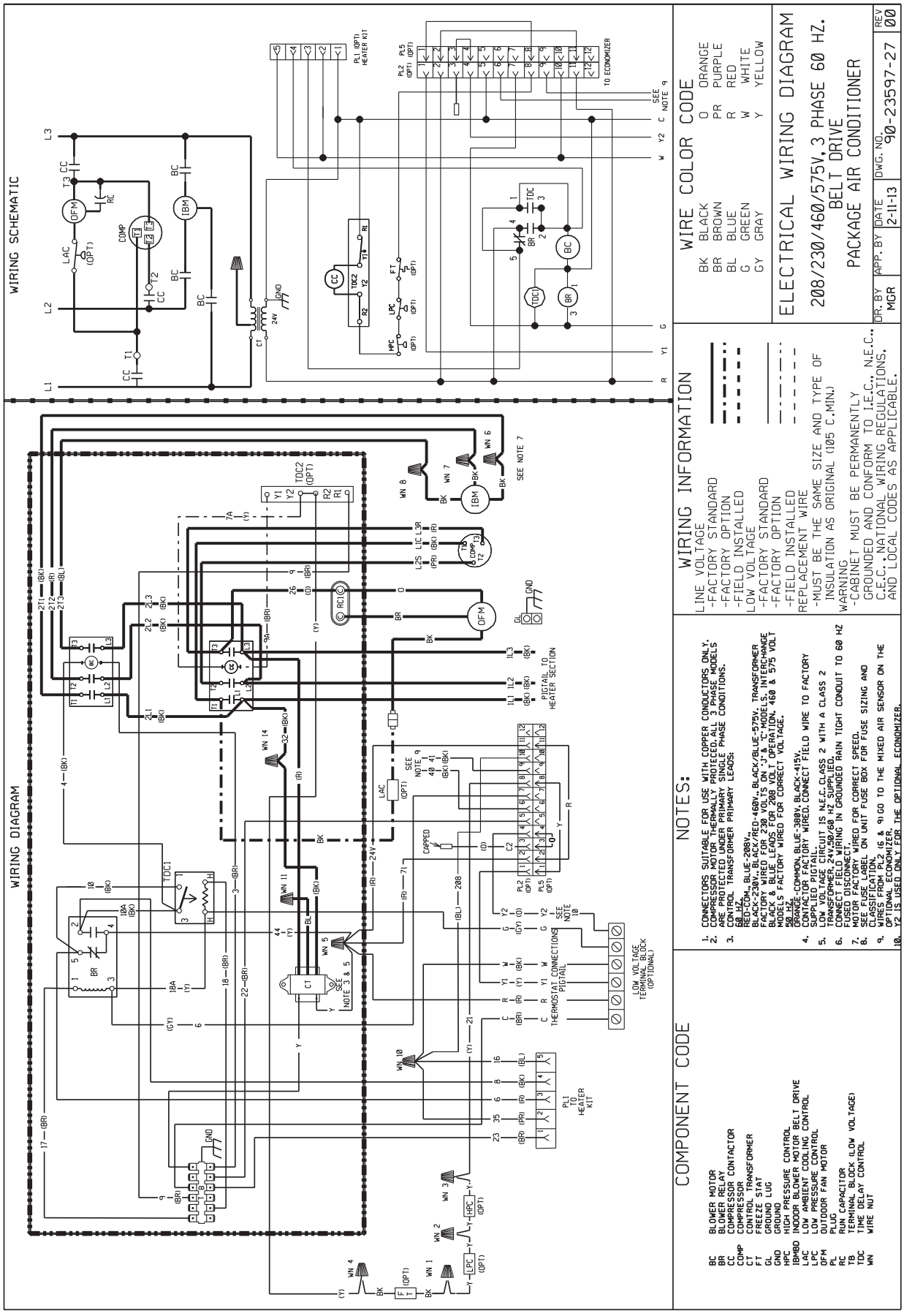


FIGURE 26
WIRING DIAGRAM

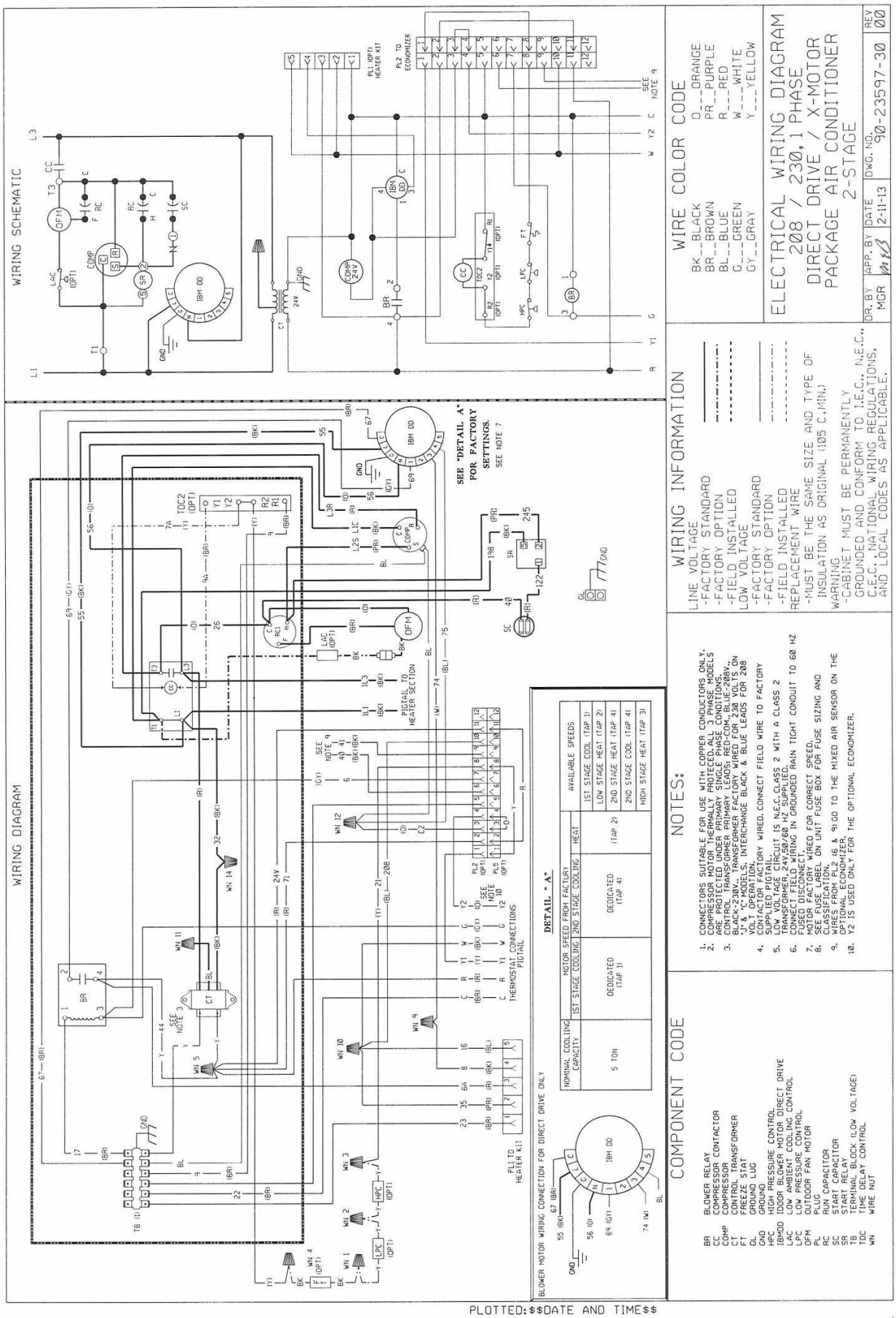


FIGURE 27
WIRING DIAGRAM

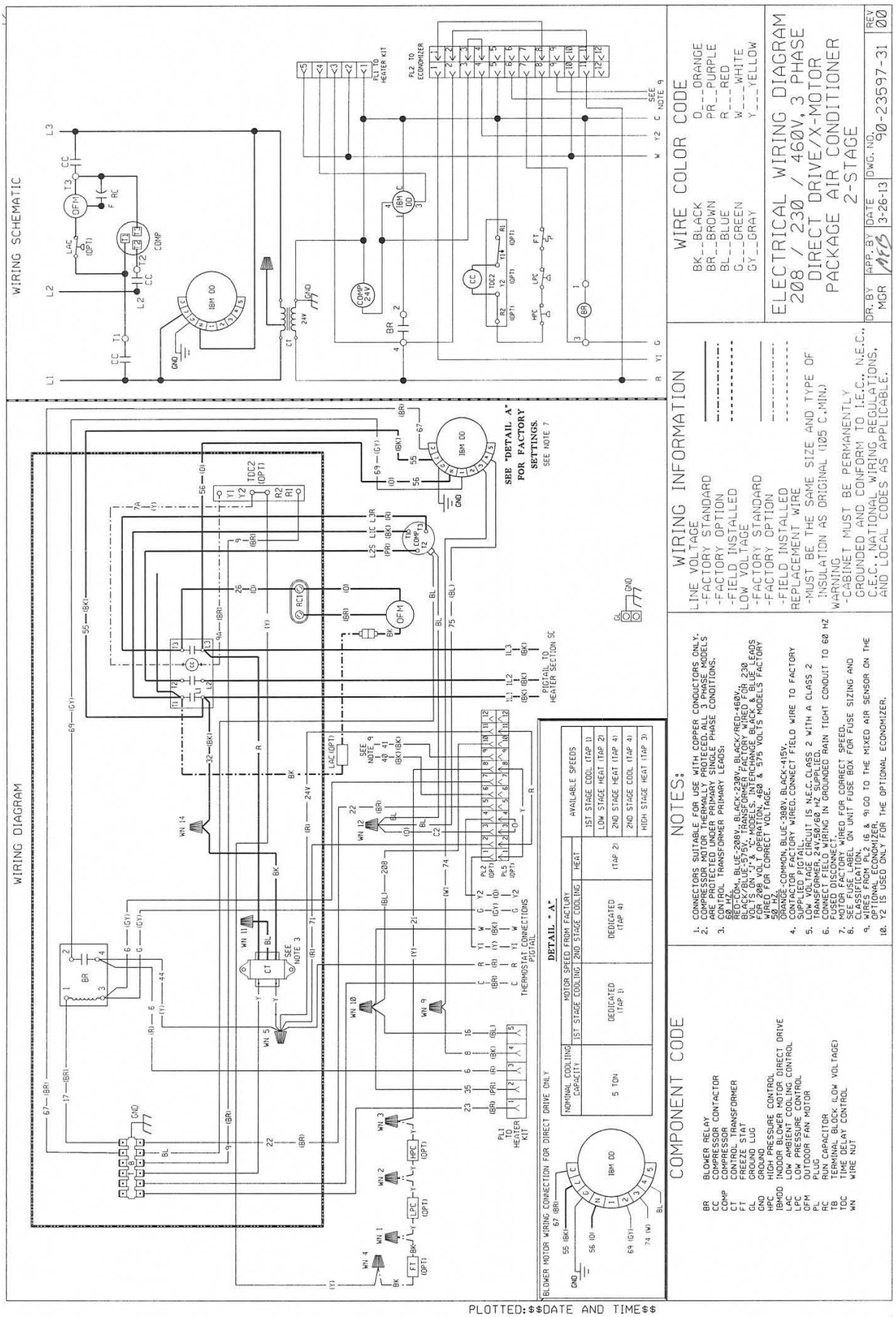


FIGURE 28
WIRING DIAGRAM

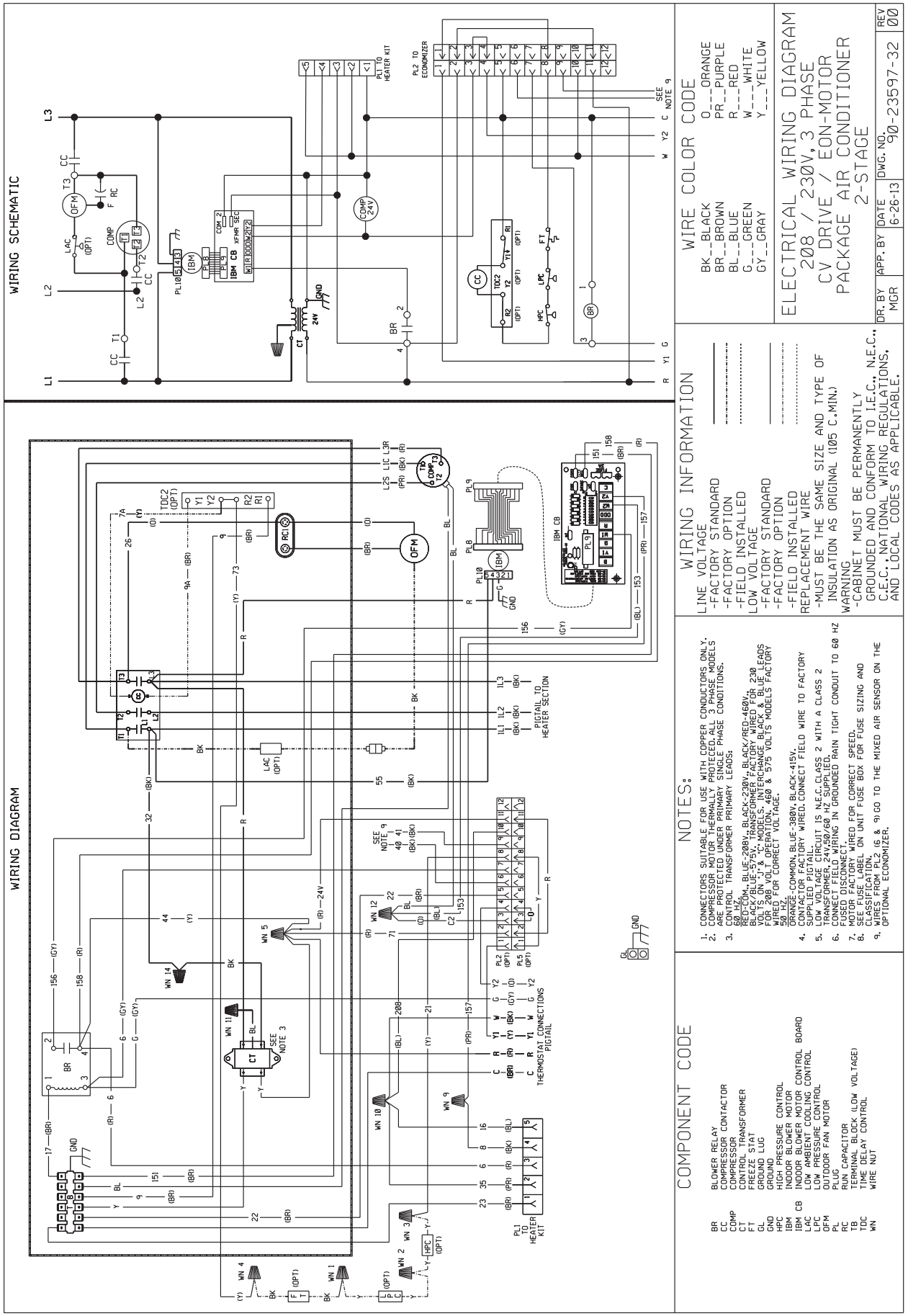


FIGURE 29
WIRING DIAGRAM

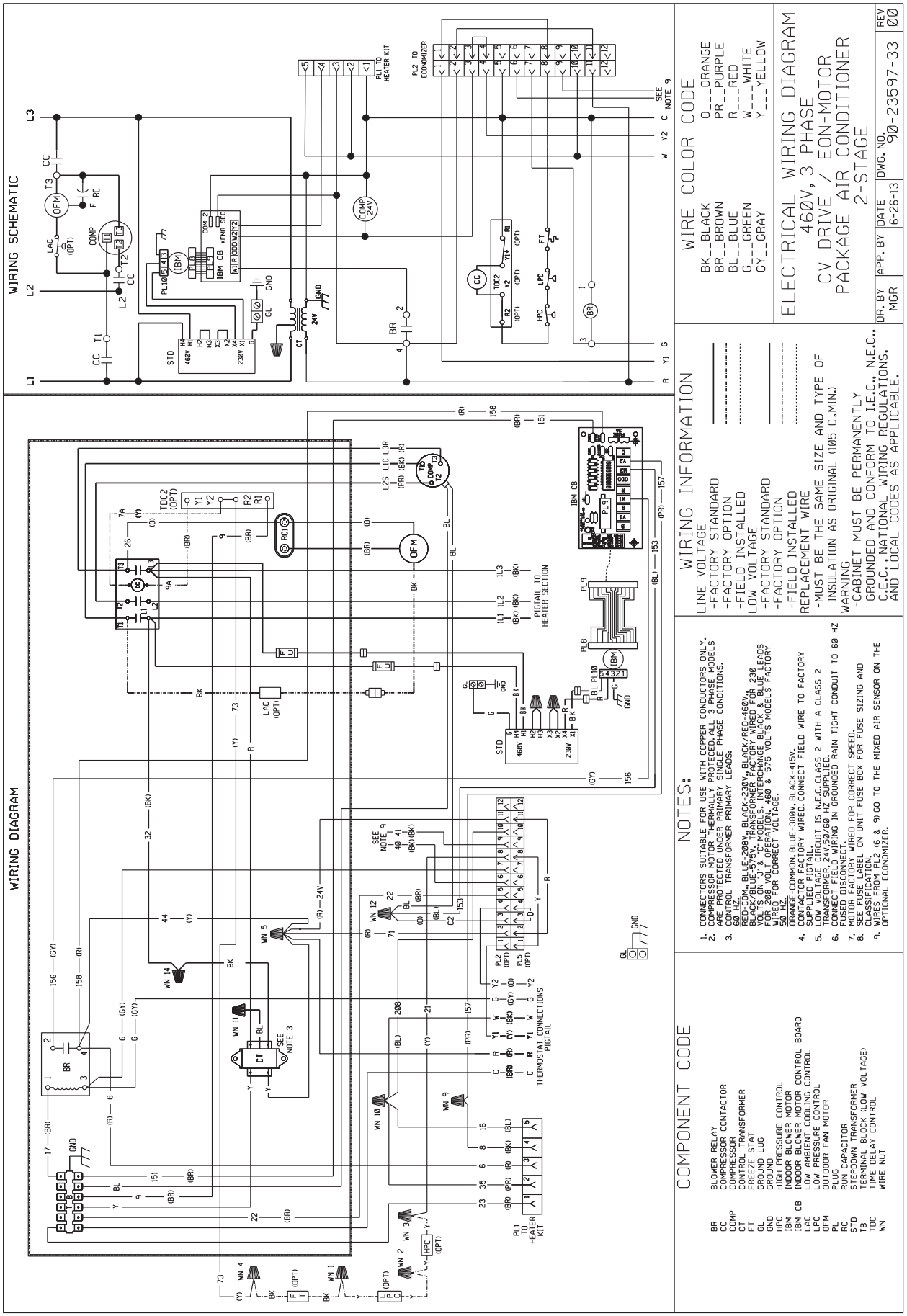


FIGURE 30
SYSTEM CHARGE CHART

SYSTEM CHARGE CHART - REFRIGERANT 410A

OUTDOOR DRY BULB	3-TON	4-TON	5-TON

Pressure Requirements - Gross Charge Check ONLY

	Liquid Pressure / Vapor Pressure		
115	475 / 151	499 / 153	499 / 147
105	416 / 149	428 / 151	437 / 144
95	366 / 146	374 / 149	379 / 142
85	317 / 145	323 / 147	328 / 139
75	274 / 143	279 / 145	281 / 136
65	238 / 138	239 / 143	240 / 133
55	205 / 129	207 / 139	207 / 129

Sub Cooling Requirements - Final Charge Verification

115	18	18	17
105	17	17	16
95	17	15	15
85	16	13	13
75	15	12	11
65	15	11	10
55	14	11	10

NOTICE:

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

92-104690-01-01

TROUBLE SHOOTING CHART

⚠ WARNING

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

SYMPTOM	POSSIBLE CAUSE	REMEDY
Unit will not run	• Power off or loose electrical connection • Thermostat out of calibration-set too high • Defective contactor • Blown fuses • Transformer defective • High pressure control open (if provided) • Interconnecting low voltage wiring damaged	• Check for correct voltage at compressor contactor in control box • Reset • Check for 24 volts at contactor coil - replace if contacts are open • Replace fuses • Check wiring-replace transformer • Reset-also see high head pressure remedy-The high pressure control opens at 610 PSIG • Replace thermostat wiring
Condenser fan runs, compressor doesn't	• Run capacitor defective (single phase only) • Start relay defective (single phase on;y) • Loose connection • Compressor stuck, grounded or open motor winding, open internal overload. • Low voltage condition • Low voltage condition	• Replace • Replace • Check for correct voltage at compressor - check & tighten all connections • Wait at least 2 hours for overload to reset. If still open, replace the compressor. • At compressor terminals, voltage must be within 10% of rating plate volts when unit is operating • Add start kit components
Insufficient cooling	• Improperly sized unit • Improper airflow • Incorrect refrigerant charge • Air, non-condensibles or moisture in system • Incorrect voltage	• Recalculate load • Check - should be approximately 400 CFM per ton. • Charge per procedure attached to unit service panel • Recover refrigerant, evacuate & recharge, add filter drier • At compressor terminals, voltage must be within 10% of rating plate volts when unit is operating.
Compressor short cycles	• Incorrect voltage • Defective overload protector • Refrigerant undercharge	• At compressor terminals, voltage must be ±10% of nameplate marking when unit is operating. • Replace - check for correct voltage • Add refrigerant
Registers sweat	• Low evaporator airflow	• Increase speed of blower or reduce restriction - replace air filter
High head-low vapor pressures	• Restriction in liquid line, expansion device or filter drier • Flow check piston size too small • Incorrect capillary tubes • TXV does not open	• Remove or replace defective component • Change to correct size piston • Change coil assembly • Replace TXV
High head-high or normal vapor pressure - Cooling mode	• Dirty condenser coil • Refrigerant overcharge • Condenser fan not running • Air or non-condensibles in system	• Clean coil • Correct system charge • Repair or replace • Recover refrigerant, evacuate & recharge
Low head-high vapor pressures	• Flow check piston size too large • Defective Compressor valves • Incorrect capillary tubes	• Change to correct size piston • Replace compressor • Replace coil assembly
Low vapor - cool compressor - iced evaporator coil	• Low evaporator airflow • Operating below 65°F outdoors • Moisture in system • TXV limiting refrigerant flow	• Increase speed of blower or reduce restriction - replace air filter • Add Low Ambient Kit • Recover refrigerant - evacuate & recharge - add filter drier • Replace TXV
High vapor pressure	• Excessive load • Defective compressor	• Recheck load calculation • Replace
Fluctuating head & vapor pressures	• TXV hunting • Air or non-condensate in system	• Check TXV bulb clamp - check air distribution on coil - replace TXV • Recover refrigerant, evacuate & recharge
Gurgle or pulsing noise at expansion device or liquid line	• Air or non-condensibles in system	• Recover refrigerant, evacuate & recharge