



**Russell**<sup>™</sup>  
By Rheem

# MODEL: RLPN/RLQN Package Gas Electric Unit

FORM NO. SRR-966

## Russell<sup>™</sup> By Rheem Package Air Conditioner



\*Unit shown with optional louver panels installed.

**RLPN- 14 SEER**  
**RLQN- 15 SEER**

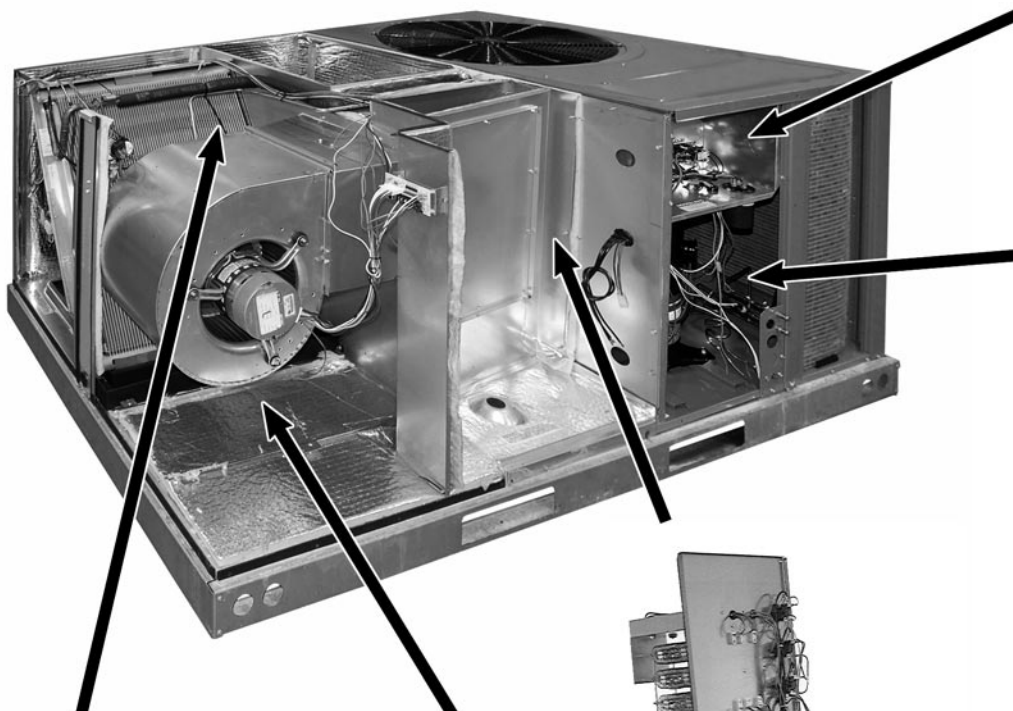
- Featuring Industry Standard R-410A Refrigerant
- Nominal Sizes 3-5 Tons [10.6-17.6 kW]



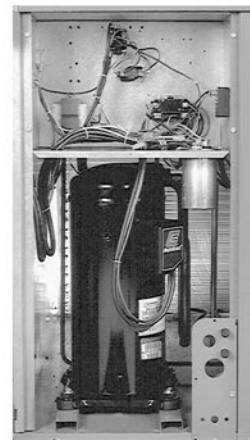
(15 SEER/12.0 EER ONLY)

## TABLE OF CONTENTS

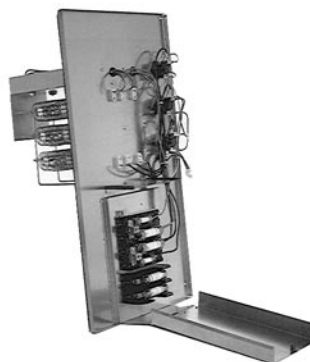
Unit Features & Benefits .....	3-4
Selection Procedure.....	5
Model Number Identification .....	6
Options .....	7
General Data	
RLPN- .....	8-15
RLQN- .....	16-21
General Data Notes .....	22
Gross Systems Performance Data	
RLPN-.....	23-25
RLQN- .....	26-28
Airflow Performance .....	29-36
Electrical Data	
RLPN-.....	37-39
RLQN- .....	40-41
Electric Heater Kits	
RLPN-.....	42-47
RLQN- .....	48-52
Dimensional Data .....	53-55
Accessories .....	56-63
Mechanical Specifications . .....	64-68
Wiring Diagrams .....	69-77
Limited Warranty .....	78



**Control Box Access**



**Compressor Access**  
(3 to 5 Ton [10.6 to 17.6 kW] Models)



**Optional Electric Heater Kit**



**Evaporator Coil/Filter Access**

- Return air filters, normally provided, are removed in this photo.

- Non-corrosive plastic condensate pan

**Blower Access**

- Belt drive model shown. (Available on 3-phase models only.)



[ ] Designates Metric Conversions



RLPN - A036, A048, A060  
RLQN - A036, A048, A060

## STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Single stage compressor on all models. (Except 5 ton 15 SEER) which utilizes two stage scroll.
- Convertible airflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, Micro Channel designed evaporator coil facilitates easy cleaning for maintained high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Easily removable filter, blower, gas heat, and compressor/control access panels permits prompt service.
- Powder Paint Finish meets ASTM B117 steel coated on each side for maximum protection. G90 galvanized.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Externally mounted refrigerant gauge ports for easy service diagnostics.
- Factory or field-installed electric heat kits available up to 24 kW.
- Easy to install plug-in; slip in, 100% fully modulating economizer.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Direct drive or high performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 1 inch filter standard with slide out design.
- Colored and labeled wiring.
- MicroChannel coils.
- Molded compressor plug.
- Micro Channel evaporator and condenser delivers superior performance with less refrigerant charge and less weight than conventional copper tube/aluminum fin coils. In addition the all aluminum construction has superior protection against formicary corrosion and aluminum tube rubbing potential. Its easier to clean and has a more robust surface.

**1. Determine cooling and heating requirements at design conditions.**

Example:

Power Supply .....	208/230-3 Phase
Total cooling capacity .....	42,500 BTUH [12.44 kW]
Sensible cooling capacity .....	34,000 BTUH [9.96 kW]
Heating capacity .....	96,000 BTUH [28.13 kW]
Condenser entering air .....	95°F [35°C]
Evaporator entering air .....	63°F [17°C] wb/76°F [24°C] db
Indoor air flow .....	1650 CFM [778 L/s]
External static pressure .....	1.1 in wg
Required efficiency .....	14 SEER

**2. Select unit to meet cooling requirements.**

Since total cooling is within the range of 4 ton [14.07 kW] unit and requires 14 SEER efficiency level, enter cooling performance from the RKPN-A048 at 95°F [35°C] outdoor temperature, 63°F [17°C] wb entering indoor air, and 1600 CFM [755 L/s]:

Total capacity .....	46,000 BTUH [13.48 kW]
Sensible capacity .....	42,700 BTUH [12.51 kW]
Power input.....	3.3 kW

And also, at 76°F [24°C] db indoor entering air, and using the formula at the bottom of the table:

Sensible capacity .....	36,166 BTUH [10.60 kW]
-------------------------	------------------------

**3. Select heating capacity of the unit.**

In the general data tables, note that the heating capacity of the 4 ton [14.07 kW] model with the 135,000 input heater can deliver 109,400 BTUH [32.03 kW], which is suitable for this application.

**4. Determine blower speed and power to meet the system requirements.**

At the given external static pressure of 1.1 in wg, the belt model must be selected. Enter the belt drive blower performance data at 1600 CFM [755 L/s] and 1.1 in wg ESP:

RPM .....	1195
Watts .....	755
Drive .....	M

**5. Calculate indoor blower BTUH heat effect.**

BTUH = Watts x 3.413 = 2577

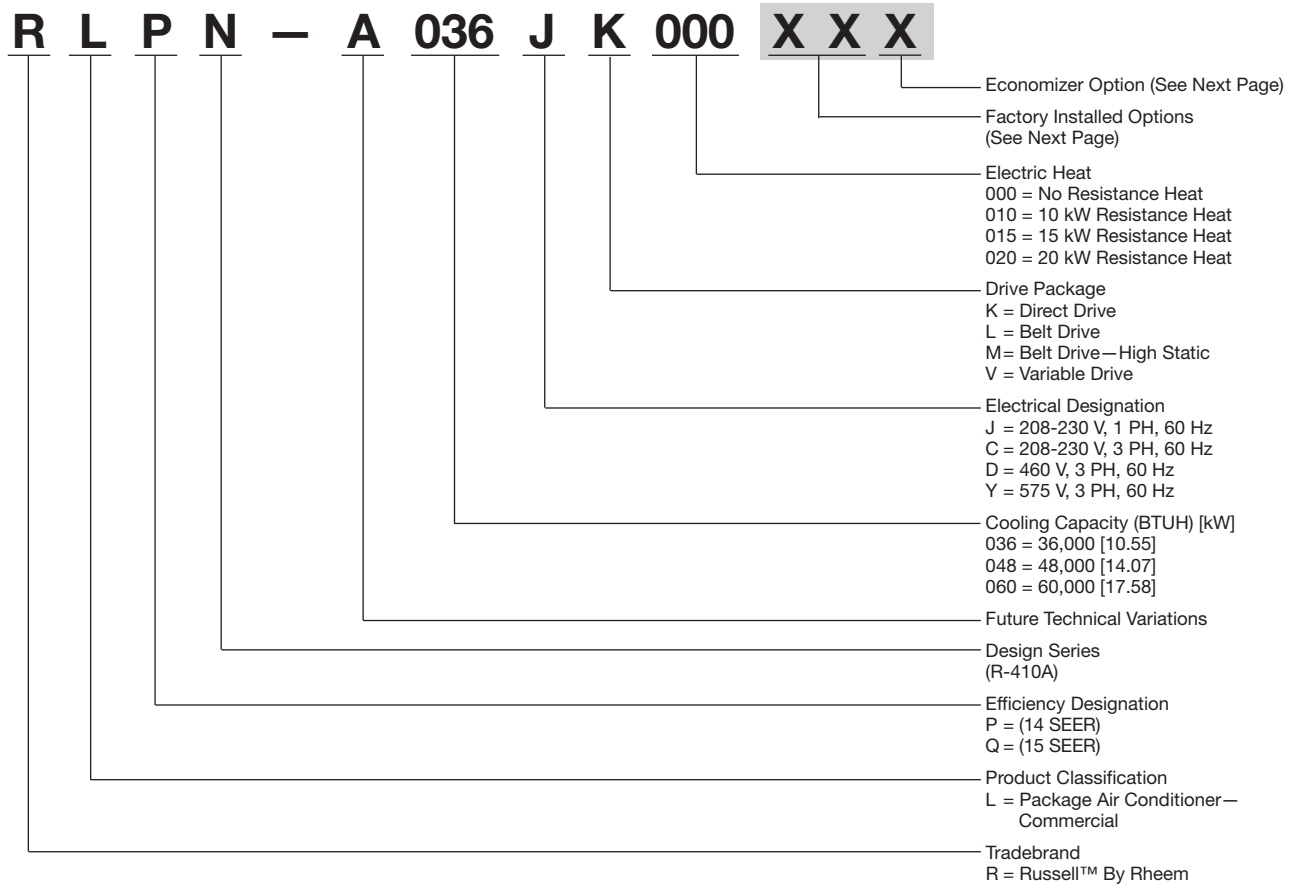
**6. Calculate net cooling capacities.**

Net total cooling = 46,000 – 2577 = 43,423 BTUH [12.73 kW]  
 Net sensible cooling = 42,700 – 2577 = 40,123 BTUH [11.76 kW]

**7. Select model**

RKPN-A048CM13E

[ ] Designates Metric Conversions



[ ] Designates Metric Conversions

**FACTORY INSTALLED OPTION CODES FOR RLPN- (3-5 Ton) [10.6-17.6 kW] (A036, A048, A060)**

Option Code	Hail Guard	Non-Powered Convenience Outlet	Low Ambient/ Freeze Stat
AD	X		
AG		X	
AP			X
BY	X		X
BJ	X	X	
CX	X	X	X
JC		X	X

Example: RLPN-A060JK000XXX (where XX is factory installed option)

Example: No Options

RLPN-A060JK000

Example: No Options with Factory Installed Economizer

RLPN-A060JK000AAF

Example: Options with Hailguard with no Factory Installed Economizer

RLPN-A060JK000ADA

Example: Options same as above with Factory Installed Economizer

RLPN-A060JK000ADF

**ECONOMIZER SELECTION FOR RLPN- (3-5 Ton) [10.6-17.6 kW] (A036, A048, A060)**

	No Economizer	Single Enthalpy Economizer with Barometric Relief	Single Enthalpy Economizer with Smoke Detector
A	X		
F		X	
G			X

"x" indicates factory installed option.

[ ] Designates Metric Conversions

**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLPN-	A036CK	A036CL	A036CM	A036DK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER <sup>2</sup>	11.6/14	11.6/14	11.6/14	11.6/14
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	78	78	78	78
<b>Outdoor Coil—Fin Type</b>	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]
<b>Indoor Coil—Fin Type</b>	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]
<b>Outdoor Fan—Type</b>	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
<b>Indoor Fan—Type</b>	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
<b>Filter—Type</b>	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]
<b>Refrigerant Charge Oz. [g]</b>	54 [1531]	54 [1531]	54 [1531]	54 [1531]
<b>Weights</b>				
Net Weight lbs. [kg]	453 [206]	471 [214]	471 [214]	453 [206]
Ship Weight lbs. [kg]	460 [209]	478 [217]	478 [217]	460 [209]

See Page 22 for Notes.

[ ] Designates Metric Conversions



**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLPN-	A036DL	A036DM	A036JK	A036YL
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER <sup>2</sup>	11.6/14	11.6/14	11.6/14	11.6/14
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	78	78	78	78
<b>Outdoor Coil—Fin Type</b>	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]
<b>Indoor Coil—Fin Type</b>	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]
<b>Outdoor Fan—Type</b>	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
<b>Indoor Fan—Type</b>	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
<b>Filter—Type</b>	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]
<b>Refrigerant Charge Oz. [g]</b>	54 [1531]	54 [1531]	54 [1531]	54 [1531]
<b>Weights</b>				
Net Weight lbs. [kg]	471 [214]	471 [214]	453 [206]	471 [214]
Ship Weight lbs. [kg]	478 [217]	478 [217]	460 [209]	478 [217]

See Page 22 for Notes.

[ ] Designates Metric Conversions

**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLPN-	A036YM	A048CK	A048CL	A048CM
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER <sup>2</sup>	11.6/14	11.6/14	11.6/14	11.6/14
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	78	78	78	78
<b>Outdoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
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]
<b>Indoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
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]
<b>Outdoor Fan—Type</b>				
No. Used/Diameter in. [mm]	Propeller 1/24 [609.6]	Propeller 1/24 [609.6]	Propeller 1/24 [609.6]	Propeller 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
<b>Indoor Fan—Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal 1/10x10 [254x254]	FC Centrifugal 1/10x10 [254x254]	FC Centrifugal 1/10x10 [254x254]	FC Centrifugal 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
<b>Filter—Type</b>				
Furnished	Disposable Yes	Disposable Yes	Disposable Yes	Disposable 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]
<b>Refrigerant Charge Oz. [g]</b>				
	54 [1531]	68 [1928]	68 [1928]	68 [1928]
<b>Weights</b>				
Net Weight lbs. [kg]	471 [214]	477 [216]	495 [225]	496 [225]
Ship Weight lbs. [kg]	478 [217]	484 [220]	502 [228]	503 [228]

**CONTINUED** →

See Page 22 for Notes.

[ ] Designates Metric Conversions

**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLPN-	A048DK	A048DL	A048DM	A048JK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER <sup>2</sup>	11.6/14	11.6/14	11.6/14	11.6/14
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	78	78	78	78
<b>Outdoor Coil—Fin Type</b>	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]
<b>Indoor Coil—Fin Type</b>	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]
<b>Outdoor Fan—Type</b>	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
<b>Indoor Fan—Type</b>	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
<b>Filter—Type</b>	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]
<b>Refrigerant Charge Oz. [g]</b>	68 [1928]	68 [1928]	68 [1928]	68 [1928]
<b>Weights</b>				
Net Weight lbs. [kg]	477 [216]	495 [225]	496 [225]	477 [216]
Ship Weight lbs. [kg]	484 [220]	502 [228]	503 [228]	484 [220]

See Page 22 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN-	A048YL	A048YM
<b>Cooling Performance<sup>1</sup></b>		
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]
EER/SEER <sup>2</sup>	11.6/14	11.6/14
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
<b>Compressor</b>		
No./Type	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>		
	78	78
<b>Outdoor Coil—Fin Type</b>		
	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]
<b>Indoor Coil—Fin Type</b>		
	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]
<b>Outdoor Fan—Type</b>		
	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
<b>Indoor Fan—Type</b>		
	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
<b>Filter—Type</b>		
	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]
<b>Refrigerant Charge Oz. [g]</b>		
	68 [1928]	68 [1928]
<b>Weights</b>		
Net Weight lbs. [kg]	496 [225]	496 [225]
Ship Weight lbs. [kg]	503 [228]	503 [228]

See Page 22 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN-	A060CK	A060CL	A060CM	A060DK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER <sup>2</sup>	11.6/14	11.6/14	11.6/14	11.6/14
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	83	83	83	83
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size 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]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size 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]
<b>Outdoor Fan—Type</b>	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
<b>Indoor Fan—Type</b>	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
<b>Filter—Type</b>	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]
<b>Refrigerant Charge Oz. [g]</b>	63 [1786]	63 [1786]	63 [1786]	63 [1786]
<b>Weights</b>				
Net Weight lbs. [kg]	482 [219]	503 [228]	508 [230]	482 [219]
Ship Weight lbs. [kg]	489 [222]	510 [231]	515 [234]	489 [222]

See Page 22 for Notes.

[ ] Designates Metric Conversions

**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLPN-	A060DL	A060DM	A060JK	A060YL
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER <sup>2</sup>	11.6/14	11.6/14	11.6/14	11.6/14
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	83	83	83	83
<b>Outdoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Rows / FPI [FPcm]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.3 [32]	1.3 [32]	1.3 [32]	1.3 [32]
Rows / FPI [FPcm]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]	4.8 [0.45]
	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]
<b>Outdoor Fan—Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
Motor RPM	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
	1075	1075	1075	1075
<b>Indoor Fan—Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/11x10 [279x254]	1/11x10 [279x254]	1/10x10 [254x254]	1/10x10 [254x254]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Direct	Belt (Adjustable)
No. Motors	Single	Single	Multiple	Single
Motor HP	1	1	1	1
Motor RPM	3/4	1	1	3/4
Motor Frame Size	1725	1725	1075	1725
	56	56	48	56
<b>Filter—Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
<b>Refrigerant Charge Oz. [g]</b>				
	63 [1786]	63 [1786]	63 [1786]	63 [1786]
<b>Weights</b>				
Net Weight lbs. [kg]	503 [228]	508 [230]	482 [219]	503 [228]
Ship Weight lbs. [kg]	510 [231]	515 [234]	489 [222]	510 [231]

**CONTINUED** →

See Page 22 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLPN-	A060YM
<b>Cooling Performance<sup>1</sup></b>	
Gross Cooling Capacity Btu [kW]	60,000 [17.58]
EER/SEER <sup>2</sup>	11.6/14
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
<b>Compressor</b>	
No./Type	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	
83	
<b>Outdoor Coil—Fin Type</b>	
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]
<b>Indoor Coil—Fin Type</b>	
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]
<b>Outdoor Fan—Type</b>	
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
<b>Indoor Fan—Type</b>	
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
<b>Filter—Type</b>	
Disposable	
Furnished	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
<b>Refrigerant Charge Oz. [g]</b>	
63 [1786]	
<b>Weights</b>	
Net Weight lbs. [kg]	508 [230]
Ship Weight lbs. [kg]	515 [234]

See Page 22 for Notes.

[ ] Designates Metric Conversions

**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLQN-	A036CK	A036CL	A036CM	A036DK
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]
EER/SEER <sup>2</sup>	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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	78	78	78	78
<b>Outdoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.7 [18]	0.7 [18]	0.7 [18]	0.7 [18]
Rows / FPI [FPcm]	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]
<b>Indoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25]	1 [25]	1 [25]	1 [25]
Rows / FPI [FPcm]	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]
<b>Outdoor Fan—Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
Motor RPM	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
	1075	1075	1075	1075
<b>Indoor Fan—Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
No. Speeds	Direct	Belt (Adjustable)	Belt (Adjustable)	Direct
No. Motors	Multiple	Single	Single	Multiple
Motor HP	1	1	1	1
Motor RPM	1/2	1/2	3/4	1/2
Motor Frame Size	1075	1725	1725	1075
	48	48	56	48
<b>Filter—Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
<b>Refrigerant Charge Oz. [g]</b>				
	54 [1531]	54 [1531]	54 [1531]	54 [1531]
<b>Weights</b>				
Net Weight lbs. [kg]	453 [206]	471 [214]	471 [214]	453 [206]
Ship Weight lbs. [kg]	460 [209]	478 [217]	478 [217]	460 [209]

**CONTINUED** →

See Page 22 for Notes.

[ ] Designates Metric Conversions



## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN-	A036DL	A036DM	A036JK	A048CK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	36,200 [10.61]	36,200 [10.61]	36,200 [10.61]	48,000 [14.06]
EER/SEER <sup>2</sup>	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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	78	78	78	78
<b>Outdoor Coil—Fin Type</b>	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]
<b>Indoor Coil—Fin Type</b>	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]
<b>Outdoor Fan—Type</b>	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
<b>Indoor Fan—Type</b>	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
<b>Filter—Type</b>	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]
<b>Refrigerant Charge Oz. [g]</b>	54 [1531]	54 [1531]	54 [1531]	68 [1928]
<b>Weights</b>				
Net Weight lbs. [kg]	471 [214]	471 [214]	453 [206]	477 [216]
Ship Weight lbs. [kg]	478 [217]	478 [217]	460 [209]	484 [220]

See Page 22 for Notes.

[ ] Designates Metric Conversions

**NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]**

Model RLQN-	A048CL	A048CM	A048DK	A048DL
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
EER/SEER <sup>2</sup>	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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	78	78	78	78
<b>Outdoor Coil—Fin Type</b>				
	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]
<b>Indoor Coil—Fin Type</b>				
	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]
<b>Outdoor Fan—Type</b>				
	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
<b>Indoor Fan—Type</b>				
	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
<b>Filter—Type</b>				
	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]
<b>Refrigerant Charge Oz. [g]</b>				
	68 [1928]	68 [1928]	68 [1928]	68 [1928]
<b>Weights</b>				
Net Weight lbs. [kg]	495 [225]	496 [225]	477 [216]	495 [225]
Ship Weight lbs. [kg]	502 [228]	503 [228]	484 [220]	502 [228]

See Page 22 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN-	A048DM	A048JK
<b>Cooling Performance<sup>1</sup></b>		
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	48,000 [14.06]
EER/SEER <sup>2</sup>	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
<b>Compressor</b>		
No./Type	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>		
	78	78
<b>Outdoor Coil—Fin Type</b>		
Tube Type	Louvered	Louvered
Tube Size in. [mm] OD	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]
<b>Indoor Coil—Fin Type</b>		
Tube 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]
<b>Outdoor Fan—Type</b>		
	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
<b>Indoor Fan—Type</b>		
	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
<b>Filter—Type</b>		
	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]
<b>Refrigerant Charge Oz. [g]</b>		
	68 [1928]	68 [1928]
<b>Weights</b>		
Net Weight lbs. [kg]	496 [225]	477 [216]
Ship Weight lbs. [kg]	503 [228]	484 [220]

CONTINUED →

See Page 22 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN-	A060CK	A060CV	A060DK	A060DV
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]
SEER <sup>2</sup>	15	15	15	15
EER (1st stage / 2nd stage)	19.9/11.6	19.9/11.6	19.9/11.6	19.9/11.6
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
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	83	83	83	83
<b>Outdoor Coil—Fin Type</b>				
	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]
<b>Indoor Coil—Fin Type</b>				
	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]
<b>Outdoor Fan—Type</b>				
	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
<b>Indoor Fan—Type</b>				
	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
<b>Filter—Type</b>				
	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]
<b>Refrigerant Charge Oz. [g]</b>				
	63 [1786]	63 [1786]	63 [1786]	63 [1786]
<b>Weights</b>				
Net Weight lbs. [kg]	481 [218]	493 [224]	481 [218]	549 [249]
Ship Weight lbs. [kg]	488 [221]	500 [227]	488 [221]	556 [252]

See Page 22 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model RLQN-	A060JK
<b>Cooling Performance<sup>1</sup></b>	
Gross Cooling Capacity Btu [kW]	59,000 [17.29]
SEER <sup>2</sup>	15
EER (1st stage / 2nd stage)	19.9/11.6
AHRI Rated CFM (1st / 2nd stage) [L/s]	1375 / 1800 [649 / 849]
AHRI Net Cooling Capacity (1st / 2nd stage) Btu [kW]	49,000 / 57,000 [14.3/16.7]
Net Sensible Capacity (1st / 2nd stage) Btu [kW]	34,800 / 40,800 [10.2/12.0]
Net Latent Capacity (1st / 2nd stage) Btu [kW]	14,200 / 16,200 [4.2 / 4.8]
Net System Power (1st / 2nd stage) [kW]	2.1 / 4.8
<b>Compressor</b>	
No./Type	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	
	83
<b>Outdoor Coil—Fin Type</b>	
	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]
<b>Indoor Coil—Fin Type</b>	
	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]
<b>Outdoor Fan—Type</b>	
	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
<b>Indoor Fan—Type</b>	
	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
<b>Filter—Type</b>	
	Disposable
Furnished	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
<b>Refrigerant Charge Oz. [g]</b>	
	63 [1786]
<b>Weights</b>	
Net Weight lbs. [kg]	481 [218]
Ship Weight lbs. [kg]	488 [221]

See Page 22 for Notes.

[ ] 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  $\pm 20\%$  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.

**GROSS SYSTEMS PERFORMANCE DATA—RLPN-A036**

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		1375 [649]	1250 [590]	1062 [501]	1375 [649]	1250 [590]	1062 [501]	1375 [649]	1250 [590]	1062 [501]	
DR ①		0.2	0.18	0.15	0.2	0.18	0.15	0.2	0.18	0.15	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	45.1 [13.2] 26.6 [7.8] 2.0	44.3 [13.0] 25.4 [7.5] 2.0	43.1 [12.6] 23.6 [6.9] 2.0	42.4 [12.4] 31.1 [9.1] 2.0	41.6 [12.2] 29.7 [8.7] 2.0	40.5 [11.9] 27.6 [8.1] 1.9	39.9 [11.7] 34.8 [10.2] 2.0	39.2 [11.5] 33.2 [9.7] 1.9	38.1 [11.2] 30.9 [9.1] 1.9
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	43.7 [12.8] 26.0 [7.6] 2.1	42.9 [12.6] 24.8 [7.3] 2.1	41.8 [12.2] 23.1 [6.8] 2.1	41.0 [12.0] 30.4 [8.9] 2.1	40.3 [11.8] 29.0 [8.5] 2.1	39.2 [11.5] 27.0 [7.9] 2.0	38.6 [11.3] 34.1 [10.0] 2.1	37.9 [11.1] 32.6 [9.6] 2.1	36.8 [10.8] 30.3 [8.9] 2.0
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	42.4 [12.4] 25.3 [7.4] 2.2	41.6 [12.2] 24.1 [7.1] 2.2	40.5 [11.9] 22.5 [6.6] 2.2	39.7 [11.6] 29.7 [8.7] 2.2	38.9 [11.4] 28.4 [8.3] 2.2	37.9 [11.1] 26.4 [7.7] 2.2	37.2 [10.9] 33.5 [9.8] 2.2	36.5 [10.7] 32.0 [9.4] 2.2	35.5 [10.4] 29.7 [8.7] 2.1
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	41.0 [12.0] 24.5 [7.2] 2.4	40.3 [11.8] 23.5 [6.9] 2.3	39.2 [11.5] 21.8 [6.4] 2.3	38.3 [11.2] 29.0 [8.5] 2.3	37.6 [11.0] 27.7 [8.1] 2.3	36.6 [10.7] 25.8 [7.5] 2.3	35.8 [10.5] 32.7 [9.6] 2.3	35.2 [10.3] 31.3 [9.2] 2.3	34.2 [10.0] 29.1 [8.5] 2.3
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	39.6 [11.6] 23.8 [7.0] 2.5	38.9 [11.4] 22.7 [6.7] 2.5	37.9 [11.1] 21.1 [6.2] 2.4	36.9 [10.8] 28.2 [8.3] 2.5	36.3 [10.6] 27.0 [7.9] 2.5	35.3 [10.3] 25.1 [7.3] 2.4	34.5 [10.1] 32.0 [9.4] 2.5	33.9 [9.9] 30.5 [9.0] 2.4	32.9 [9.7] 28.4 [8.3] 2.4
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	38.3 [11.2] 23.0 [6.7] 2.6	37.6 [11.0] 22.0 [6.4] 2.6	36.6 [10.7] 20.4 [6.0] 2.6	35.6 [10.4] 27.4 [8.0] 2.6	34.9 [10.2] 26.2 [7.7] 2.6	34.0 [10.0] 24.4 [7.1] 2.6	33.1 [9.7] 31.2 [9.1] 2.6	32.5 [9.5] 29.8 [8.7] 2.6	31.6 [9.3] 27.7 [8.1] 2.5
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	36.9 [10.8] 22.2 [6.5] 2.8	36.3 [10.6] 21.2 [6.2] 2.8	35.3 [10.3] 19.7 [5.8] 2.7	34.2 [10.0] 26.6 [7.8] 2.8	33.6 [9.8] 25.4 [7.4] 2.8	32.7 [9.6] 23.6 [6.9] 2.7	31.8 [9.3] 30.3 [8.9] 2.8	31.2 [9.1] 29.0 [8.5] 2.7	30.3 [8.9] 27.0 [7.9] 2.7
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	35.5 [10.4] 21.3 [6.2] 3.0	34.9 [10.2] 20.3 [6.0] 2.9	34.0 [9.9] 18.9 [5.5] 2.9	32.8 [9.6] 25.7 [7.5] 2.9	32.2 [9.4] 24.6 [7.2] 2.9	31.4 [9.2] 22.9 [6.7] 2.9	30.4 [8.9] 29.5 [8.6] 2.9	29.8 [8.7] 28.2 [8.3] 2.9	29.0 [8.5] 26.2 [7.7] 2.8
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	34.2 [10.0] 20.4 [6.0] 3.1	33.6 [9.8] 19.5 [5.7] 3.1	32.6 [9.6] 18.1 [5.3] 3.0	31.5 [9.2] 24.8 [7.3] 3.1	30.9 [9.1] 23.7 [7.0] 3.1	30.1 [8.8] 22.1 [6.5] 3.0	29.0 [8.5] 28.6 [8.4] 3.1	28.5 [8.3] 27.3 [8.0] 3.0	27.7 [8.1] 25.4 [7.4] 3.0
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	32.8 [9.6] 19.4 [5.7] 3.3	32.2 [9.4] 18.6 [5.4] 3.3	31.3 [9.2] 17.3 [5.1] 3.2	30.1 [8.8] 23.9 [7.0] 3.3	29.5 [8.7] 22.8 [6.7] 3.2	28.7 [8.4] 21.2 [6.2] 3.2	27.6 [8.1] 27.6 [8.1] 3.2	27.1 [8.0] 26.4 [7.7] 3.2	26.4 [7.7] 24.5 [7.2] 3.2
125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	31.4 [9.2] 18.5 [5.4] 3.5	30.9 [9.0] 17.6 [5.2] 3.4	30.0 [8.8] 16.4 [4.8] 3.4	28.7 [8.4] 22.9 [6.7] 3.4	28.2 [8.3] 21.9 [6.4] 3.4	27.4 [8.0] 20.4 [6.0] 3.4	26.3 [7.7] 26.3 [7.7] 3.4	25.8 [7.6] 25.5 [7.5] 3.4	25.1 [7.4] 23.7 [6.9] 3.3	

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH  
Sens —Sensible capacity x 1000 BTUH  
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA—RLPN-A048

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		1650 [779]	1500 [708]	1275 [602]	1650 [779]	1500 [708]	1275 [602]	1650 [779]	1500 [708]	1275 [602]	
DR ①		0.1	0.08	0.05	0.1	0.08	0.05	0.1	0.08	0.05	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	58.2 [17.1] 34.7 [10.2] 2.7	57.2 [16.8] 33.1 [9.7] 2.7	55.6 [16.3] 30.8 [9.0] 2.6	55.4 [16.2] 40.9 [12.0] 2.7	54.4 [15.9] 39.1 [11.5] 2.6	52.9 [15.5] 36.4 [10.7] 2.6	52.3 [15.3] 45.8 [13.4] 2.7	51.4 [15.1] 43.8 [12.8] 2.6	50.0 [14.6] 40.7 [11.9] 2.6
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	56.7 [16.6] 34.0 [10.0] 2.8	55.7 [16.3] 32.4 [9.5] 2.8	54.1 [15.9] 30.2 [8.8] 2.8	53.8 [15.8] 40.2 [11.8] 2.8	52.9 [15.5] 38.4 [11.3] 2.8	51.4 [15.1] 35.7 [10.5] 2.8	50.8 [14.9] 45.1 [13.2] 2.8	49.9 [14.6] 43.1 [12.6] 2.8	48.5 [14.2] 40.1 [11.7] 2.7
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	55.1 [16.1] 33.2 [9.7] 3.0	54.1 [15.9] 31.7 [9.3] 3.0	52.6 [15.4] 29.5 [8.6] 2.9	52.3 [15.3] 39.5 [11.6] 3.0	51.3 [15.0] 37.7 [11.1] 2.9	49.9 [14.6] 35.1 [10.3] 2.9	49.2 [14.4] 44.4 [13.0] 3.0	48.3 [14.2] 42.4 [12.4] 2.9	47.0 [13.8] 39.4 [11.6] 2.9
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	53.5 [15.7] 32.4 [9.5] 3.2	52.5 [15.4] 31.0 [9.1] 3.1	51.1 [15.0] 28.8 [8.4] 3.1	50.7 [14.8] 38.7 [11.3] 3.1	49.8 [14.6] 37.0 [10.8] 3.1	48.4 [14.2] 34.4 [10.1] 3.1	47.6 [14.0] 43.6 [12.8] 3.1	46.8 [13.7] 41.6 [12.2] 3.1	45.5 [13.3] 38.7 [11.3] 3.1
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	51.9 [15.2] 31.6 [9.3] 3.3	50.9 [14.9] 30.2 [8.8] 3.3	49.5 [14.5] 28.1 [8.2] 3.3	49.0 [14.4] 37.8 [11.1] 3.3	48.1 [14.1] 36.1 [10.6] 3.3	46.8 [13.7] 33.6 [9.9] 3.3	46.0 [13.5] 42.7 [12.5] 3.3	45.2 [13.2] 40.8 [12.0] 3.3	43.9 [12.9] 38.0 [11.1] 3.2
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	50.2 [14.7] 30.7 [9.0] 3.5	49.3 [14.4] 29.3 [8.6] 3.5	47.9 [14.0] 27.3 [8.0] 3.5	47.3 [13.9] 36.9 [10.8] 3.5	46.5 [13.6] 35.3 [10.3] 3.5	45.2 [13.3] 32.8 [9.6] 3.5	44.3 [13.0] 41.8 [12.3] 3.5	43.5 [12.7] 40.0 [11.7] 3.5	42.3 [12.4] 37.2 [10.9] 3.4
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	48.4 [14.2] 29.8 [8.7] 3.8	47.6 [13.9] 28.4 [8.3] 3.7	46.3 [13.6] 26.4 [7.7] 3.7	45.6 [13.4] 36.0 [10.6] 3.7	44.8 [13.1] 34.4 [10.1] 3.7	43.6 [12.8] 32.0 [9.4] 3.7	42.6 [12.5] 40.9 [12.0] 3.7	41.8 [12.2] 39.1 [11.5] 3.7	40.7 [11.9] 36.3 [10.7] 3.7
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	46.7 [13.7] 28.8 [8.4] 4.0	45.8 [13.4] 27.5 [8.1] 4.0	44.6 [13.1] 25.6 [7.5] 3.9	43.8 [12.8] 35.0 [10.3] 4.0	43.1 [12.6] 33.5 [9.8] 3.9	41.9 [12.3] 31.1 [9.1] 3.9	40.8 [12.0] 39.9 [11.7] 4.0	40.1 [11.7] 38.1 [11.2] 3.9	39.0 [11.4] 35.5 [10.4] 3.9
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	44.9 [13.1] 27.7 [8.1] 4.2	44.1 [12.9] 26.5 [7.8] 4.2	42.9 [12.6] 24.7 [7.2] 4.1	42.0 [12.3] 34.0 [10.0] 4.2	41.3 [12.1] 32.5 [9.5] 4.2	40.2 [11.8] 30.2 [8.9] 4.1	39.0 [11.4] 38.9 [11.4] 4.2	38.3 [11.2] 37.2 [10.9] 4.2	37.3 [10.9] 34.6 [10.1] 4.1
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	43.0 [12.6] 26.7 [7.8] 4.5	42.3 [12.4] 25.5 [7.5] 4.5	41.1 [12.0] 23.7 [6.9] 4.4	40.2 [11.8] 32.9 [9.6] 4.5	39.5 [11.6] 31.5 [9.2] 4.4	38.4 [11.3] 29.3 [8.6] 4.4	37.1 [10.9] 37.1 [10.9] 4.5	36.5 [10.7] 36.1 [10.6] 4.4	35.5 [10.4] 33.6 [9.8] 4.4
125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	41.1 [12.1] 25.5 [7.5] 4.8	40.4 [11.8] 24.4 [7.2] 4.7	39.3 [11.5] 22.7 [6.7] 4.7	38.3 [11.2] 31.8 [9.3] 4.8	37.6 [11.0] 30.4 [8.9] 4.7	36.6 [10.7] 28.3 [8.3] 4.7	35.3 [10.3] 35.3 [10.3] 4.7	34.6 [10.2] 34.6 [10.2] 4.7	33.7 [9.9] 32.6 [9.6] 4.6	

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH  
Sens —Sensible capacity x 1000 BTUH  
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[ ] Designates Metric Conversions



**GROSS SYSTEMS PERFORMANCE DATA—RLPN-A060**

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		1980 [934]	1800 [850]	1530 [722]	1980 [934]	1800 [850]	1530 [722]	1980 [934]	1800 [850]	1530 [722]	
DR ①		0.13	0.12	0.09	0.13	0.12	0.09	0.13	0.12	0.09	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	72.0 [21.1]	70.7 [20.7]	68.8 [20.1]	68.2 [20.0]	67.0 [19.6]	65.2 [19.1]	64.8 [19.0]	63.6 [18.6]	61.9 [18.1]
		Sens BTUH [kW]	41.1 [12.0]	39.2 [11.5]	36.5 [10.7]	48.6 [14.2]	46.4 [13.6]	43.2 [12.6]	55.7 [16.3]	53.2 [15.6]	49.5 [14.5]
		Power	3.7	3.6	3.6	3.6	3.6	3.5	3.6	3.6	3.5
	80 [26.7]	Total BTUH [kW]	70.4 [20.6]	69.1 [20.3]	67.2 [19.7]	66.6 [19.5]	65.4 [19.2]	63.7 [18.7]	63.2 [18.5]	62.1 [18.2]	60.4 [17.7]
		Sens BTUH [kW]	40.4 [11.8]	38.6 [11.3]	35.9 [10.5]	47.9 [14.0]	45.8 [13.4]	42.6 [12.5]	55.1 [16.1]	52.6 [15.4]	48.9 [14.3]
		Power	3.9	3.8	3.8	3.8	3.8	3.7	3.8	3.8	3.7
	85 [29.4]	Total BTUH [kW]	68.7 [20.1]	67.5 [19.8]	65.6 [19.2]	64.9 [19.0]	63.8 [18.7]	62.0 [18.2]	61.5 [18.0]	60.4 [17.7]	58.8 [17.2]
		Sens BTUH [kW]	39.6 [11.6]	37.9 [11.1]	35.2 [10.3]	47.1 [13.8]	45.0 [13.2]	41.9 [12.3]	54.3 [15.9]	51.9 [15.2]	48.2 [14.1]
		Power	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9
	90 [32.2]	Total BTUH [kW]	66.9 [19.6]	65.7 [19.3]	63.9 [18.7]	63.1 [18.5]	62.0 [18.2]	60.3 [17.7]	59.7 [17.5]	58.6 [17.2]	57.0 [16.7]
Sens BTUH [kW]		38.8 [11.4]	37.0 [10.9]	34.5 [10.1]	46.3 [13.6]	44.2 [13.0]	41.1 [12.1]	53.4 [15.7]	51.1 [15.0]	47.5 [13.9]	
Power		4.3	4.3	4.2	4.3	4.2	4.2	4.2	4.2	4.1	
95 [35]	Total BTUH [kW]	65.0 [19.0]	63.8 [18.7]	62.1 [18.2]	61.2 [17.9]	60.1 [17.6]	58.5 [17.1]	57.8 [16.9]	56.8 [16.6]	55.2 [16.2]	
	Sens BTUH [kW]	37.8 [11.1]	36.2 [10.6]	33.6 [9.9]	45.4 [13.3]	43.3 [12.7]	40.3 [11.8]	52.5 [15.4]	50.2 [14.7]	46.7 [13.7]	
	Power	4.5	4.5	4.4	4.5	4.5	4.4	4.5	4.4	4.4	
100 [37.8]	Total BTUH [kW]	63.0 [18.5]	61.9 [18.1]	60.2 [17.6]	59.2 [17.4]	58.2 [17.0]	56.6 [16.6]	55.8 [16.3]	54.8 [16.1]	53.3 [15.6]	
	Sens BTUH [kW]	36.8 [10.8]	35.2 [10.3]	32.7 [9.6]	44.3 [13.0]	42.4 [12.4]	39.4 [11.5]	51.5 [15.1]	49.2 [14.4]	45.8 [13.4]	
	Power	4.8	4.8	4.7	4.8	4.7	4.7	4.7	4.7	4.6	
105 [40.6]	Total BTUH [kW]	60.9 [17.8]	59.8 [17.5]	58.1 [17.0]	57.1 [16.7]	56.1 [16.4]	54.5 [16.0]	53.7 [15.7]	52.7 [15.4]	51.3 [15.0]	
	Sens BTUH [kW]	35.7 [10.5]	34.1 [10.0]	31.7 [9.3]	43.2 [12.7]	41.3 [12.1]	38.4 [11.3]	50.4 [14.8]	48.1 [14.1]	44.8 [13.1]	
	Power	5.1	5.0	5.0	5.0	5.0	4.9	5.0	5.0	4.9	
110 [43.3]	Total BTUH [kW]	58.6 [17.2]	57.6 [16.9]	56.0 [16.4]	54.9 [16.1]	53.9 [15.8]	52.4 [15.4]	51.4 [15.1]	50.5 [14.8]	49.1 [14.4]	
	Sens BTUH [kW]	34.5 [10.1]	33.0 [9.7]	30.7 [9.0]	42.0 [12.3]	40.2 [11.8]	37.4 [10.9]	49.2 [14.4]	47.0 [13.8]	43.7 [12.8]	
	Power	5.3	5.3	5.2	5.3	5.3	5.2	5.3	5.2	5.2	
115 [46.1]	Total BTUH [kW]	56.3 [16.5]	55.3 [16.2]	53.8 [15.8]	52.5 [15.4]	51.6 [15.1]	50.2 [14.7]	49.1 [14.4]	48.2 [14.1]	46.9 [13.7]	
	Sens BTUH [kW]	33.2 [9.7]	31.8 [9.3]	29.5 [8.7]	40.8 [11.9]	38.9 [11.4]	36.2 [10.6]	47.9 [14.0]	45.8 [13.4]	42.6 [12.5]	
	Power	5.6	5.6	5.5	5.6	5.6	5.5	5.6	5.5	5.5	
120 [48.9]	Total BTUH [kW]	53.8 [15.8]	52.9 [15.5]	51.4 [15.1]	50.1 [14.7]	49.2 [14.4]	47.8 [14.0]	46.6 [13.7]	45.8 [13.4]	44.6 [13.1]	
	Sens BTUH [kW]	31.9 [9.3]	30.5 [8.9]	28.3 [8.3]	39.4 [11.5]	37.6 [11.0]	35.0 [10.3]	46.6 [13.6]	44.5 [13.0]	41.4 [12.1]	
	Power	6.0	5.9	5.8	5.9	5.9	5.8	5.9	5.8	5.8	
125 [51.7]	Total BTUH [kW]	51.3 [15.0]	50.4 [14.8]	49.0 [14.4]	47.5 [13.9]	46.7 [13.7]	45.4 [13.3]	44.1 [12.9]	43.3 [12.7]	42.1 [12.3]	
	Sens BTUH [kW]	30.4 [8.9]	29.1 [8.5]	27.0 [7.9]	38.0 [11.1]	36.3 [10.6]	33.7 [9.9]	44.1 [12.9]	43.1 [12.6]	40.1 [11.7]	
	Power	6.3	6.2	6.1	6.3	6.2	6.1	6.2	6.2	6.1	

DR —Depression ratio  
 dbE —Entering air dry bulb  
 wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH  
 Sens —Sensible capacity x 1000 BTUH  
 Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA—RLQN-A036

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		1375 [649]	1250 [590]	1062 [501]	1375 [649]	1250 [590]	1062 [501]	1375 [649]	1250 [590]	1062 [501]	
DR ①		0.19	0.17	0.14	0.19	0.17	0.14	0.19	0.17	0.14	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	44.3 [13.0] 25.8 [7.6] 2.0	43.6 [12.8] 24.7 [7.2] 2.0	42.4 [12.4] 22.9 [6.7] 2.0	41.9 [12.3] 30.7 [9.0] 2.0	41.1 [12.1] 29.3 [8.6] 2.0	40.0 [11.7] 27.2 [8.0] 2.0	39.8 [11.7] 34.6 [10.1] 2.0	39.1 [11.5] 33.1 [9.7] 2.0	38.0 [11.1] 30.7 [9.0] 1.9
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	43.2 [12.7] 25.3 [7.4] 2.1	42.4 [12.4] 24.2 [7.1] 2.1	41.2 [12.1] 22.5 [6.6] 2.1	40.7 [11.9] 30.1 [8.8] 2.1	40.0 [11.7] 28.8 [8.4] 2.1	38.9 [11.4] 26.8 [7.8] 2.1	38.6 [11.3] 34.1 [10.0] 2.1	37.9 [11.1] 32.6 [9.5] 2.1	36.9 [10.8] 30.3 [8.9] 2.1
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	42.0 [12.3] 24.7 [7.2] 2.2	41.2 [12.1] 23.6 [6.9] 2.2	40.1 [11.7] 22.0 [6.4] 2.2	39.5 [11.6] 29.6 [8.7] 2.2	38.8 [11.4] 28.3 [8.3] 2.2	37.7 [11.1] 26.3 [7.7] 2.2	37.4 [11.0] 33.5 [9.8] 2.2	36.7 [10.8] 32.0 [9.4] 2.2	35.7 [10.5] 29.8 [8.7] 2.2
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	40.7 [11.9] 24.1 [7.1] 2.4	40.0 [11.7] 23.1 [6.8] 2.3	38.9 [11.4] 21.4 [6.3] 2.3	38.2 [11.2] 29.0 [8.5] 2.3	37.6 [11.0] 27.7 [8.1] 2.3	36.5 [10.7] 25.8 [7.5] 2.3	36.2 [10.6] 32.9 [9.7] 2.3	35.5 [10.4] 31.5 [9.2] 2.3	34.5 [10.1] 29.3 [8.6] 2.3
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	39.4 [11.6] 23.5 [6.9] 2.5	38.7 [11.3] 22.5 [6.6] 2.5	37.7 [11.0] 20.9 [6.1] 2.4	36.9 [10.8] 28.4 [8.3] 2.5	36.3 [10.6] 27.1 [7.9] 2.5	35.3 [10.3] 25.2 [7.4] 2.4	34.9 [10.2] 32.3 [9.5] 2.5	34.3 [10.0] 30.9 [9.0] 2.4	33.3 [9.8] 28.7 [8.4] 2.4
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	38.1 [11.2] 22.8 [6.7] 2.6	37.4 [11.0] 21.8 [6.4] 2.6	36.4 [10.7] 20.3 [5.9] 2.6	35.6 [10.4] 27.7 [8.1] 2.6	35.0 [10.3] 26.4 [7.7] 2.6	34.0 [10.0] 24.6 [7.2] 2.6	33.5 [9.8] 31.6 [9.3] 2.6	32.9 [9.7] 30.2 [8.9] 2.6	32.0 [9.4] 28.1 [8.2] 2.6
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	36.7 [10.8] 22.1 [6.5] 2.8	36.1 [10.6] 21.1 [6.2] 2.8	35.1 [10.3] 19.7 [5.8] 2.7	34.3 [10.0] 27.0 [7.9] 2.8	33.6 [9.9] 25.8 [7.6] 2.7	32.7 [9.6] 24.0 [7.0] 2.7	32.2 [9.4] 30.9 [9.1] 2.8	31.6 [9.3] 29.5 [8.7] 2.7	30.7 [9.0] 27.5 [8.0] 2.7
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	35.3 [10.4] 21.4 [6.3] 2.9	34.7 [10.2] 20.4 [6.0] 2.9	33.7 [9.9] 19.0 [5.6] 2.9	32.9 [9.6] 26.2 [7.7] 2.9	32.3 [9.5] 25.0 [7.3] 2.9	31.4 [9.2] 23.3 [6.8] 2.9	30.8 [9.0] 30.2 [8.8] 2.9	30.2 [8.9] 28.8 [8.4] 2.9	29.4 [8.6] 26.8 [7.9] 2.9
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	33.9 [9.9] 20.6 [6.0] 3.1	33.3 [9.8] 19.7 [5.8] 3.1	32.4 [9.5] 18.3 [5.4] 3.0	31.4 [9.2] 25.4 [7.5] 3.1	30.8 [9.0] 24.3 [7.1] 3.1	30.0 [8.8] 22.6 [6.6] 3.0	29.3 [8.6] 29.3 [8.6] 3.1	28.8 [8.4] 28.1 [8.2] 3.1	28.0 [8.2] 26.1 [7.6] 3.0
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	32.4 [9.5] 19.8 [5.8] 3.3	31.8 [9.3] 18.9 [5.5] 3.3	31.0 [9.1] 17.6 [5.1] 3.2	29.9 [8.8] 24.6 [7.2] 3.3	29.4 [8.6] 23.5 [6.9] 3.2	28.6 [8.4] 21.9 [6.4] 3.2	27.9 [8.2] 27.9 [8.2] 3.3	27.4 [8.0] 27.3 [8.0] 3.2	26.6 [7.8] 25.4 [7.4] 3.2
125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	30.9 [9.1] 18.9 [5.5] 3.5	30.3 [8.9] 18.1 [5.3] 3.4	29.5 [8.6] 16.8 [4.9] 3.4	28.4 [8.3] 23.7 [7.0] 3.5	27.9 [8.2] 22.7 [6.6] 3.4	27.1 [8.0] 21.1 [6.2] 3.4	26.3 [7.7] 26.3 [7.7] 3.4	25.9 [7.6] 25.9 [7.6] 3.4	25.2 [7.4] 24.6 [7.2] 3.4	

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH  
Sens —Sensible capacity x 1000 BTUH  
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[ ] Designates Metric Conversions

**GROSS SYSTEMS PERFORMANCE DATA—RLQN-A048**

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		1760 [831]	1600 [755]	1360 [642]	1760 [831]	1600 [755]	1360 [642]	1760 [831]	1600 [755]	1360 [642]	
DR ①		0.11	0.09	0.05	0.11	0.09	0.05	0.11	0.09	0.05	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	57.9 [17.0] 34.8 [10.2] 2.7	56.9 [16.7] 33.2 [9.7] 2.7	55.3 [16.2] 30.9 [9.1] 2.6	55.0 [16.1] 41.4 [12.1] 2.7	54.0 [15.8] 39.6 [11.6] 2.7	52.5 [15.4] 36.8 [10.8] 2.6	52.3 [15.3] 46.2 [13.5] 2.7	51.4 [15.1] 44.2 [12.9] 2.6	50.0 [14.6] 41.1 [12.0] 2.6
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	56.4 [16.5] 34.3 [10.0] 2.8	55.4 [16.2] 32.7 [9.6] 2.8	53.9 [15.8] 30.5 [8.9] 2.8	53.5 [15.7] 40.9 [12.0] 2.8	52.6 [15.4] 39.1 [11.5] 2.8	51.1 [15.0] 36.4 [10.7] 2.7	50.8 [14.9] 45.7 [13.4] 2.8	49.9 [14.6] 43.7 [12.8] 2.8	48.6 [14.2] 40.6 [11.9] 2.7
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	54.9 [16.1] 33.7 [9.9] 3.0	53.9 [15.8] 32.2 [9.4] 3.0	52.4 [15.4] 29.9 [8.8] 2.9	52.0 [15.2] 40.3 [11.8] 3.0	51.0 [15.0] 38.5 [11.3] 2.9	49.6 [14.5] 35.8 [10.5] 2.9	49.3 [14.4] 45.1 [13.2] 2.9	48.4 [14.2] 43.1 [12.6] 2.9	47.1 [13.8] 40.1 [11.7] 2.9
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	53.3 [15.6] 33.0 [9.7] 3.1	52.3 [15.3] 31.5 [9.2] 3.1	50.9 [14.9] 29.3 [8.6] 3.1	50.4 [14.8] 39.6 [11.6] 3.1	49.5 [14.5] 37.9 [11.1] 3.1	48.1 [14.1] 35.2 [10.3] 3.1	47.7 [14.0] 44.4 [13.0] 3.1	46.9 [13.7] 42.4 [12.4] 3.1	45.6 [13.4] 39.5 [11.6] 3.0
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	51.7 [15.1] 32.2 [9.4] 3.3	50.7 [14.9] 30.7 [9.0] 3.3	49.4 [14.5] 28.6 [8.4] 3.3	48.8 [14.3] 38.8 [11.4] 3.3	47.9 [14.0] 37.1 [10.9] 3.3	46.6 [13.7] 34.5 [10.1] 3.2	46.1 [13.5] 43.6 [12.8] 3.3	45.3 [13.3] 41.7 [12.2] 3.3	44.0 [12.9] 38.8 [11.4] 3.2
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	50.0 [14.7] 31.3 [9.2] 3.5	49.1 [14.4] 29.9 [8.8] 3.5	47.8 [14.0] 27.8 [8.1] 3.4	47.1 [13.8] 37.9 [11.1] 3.5	46.3 [13.6] 36.3 [10.6] 3.5	45.0 [13.2] 33.7 [9.9] 3.4	44.4 [13.0] 42.7 [12.5] 3.5	43.6 [12.8] 40.8 [12.0] 3.5	42.4 [12.4] 38.0 [11.1] 3.4
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	48.3 [14.2] 30.3 [8.9] 3.7	47.4 [13.9] 29.0 [8.5] 3.7	46.1 [13.5] 26.9 [7.9] 3.7	45.4 [13.3] 37.0 [10.8] 3.7	44.6 [13.1] 35.3 [10.3] 3.7	43.4 [12.7] 32.8 [9.6] 3.6	42.7 [12.5] 41.8 [12.2] 3.7	42.0 [12.3] 39.9 [11.7] 3.7	40.8 [12.0] 37.1 [10.9] 3.6
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	46.6 [13.6] 29.2 [8.6] 4.0	45.7 [13.4] 27.9 [8.2] 3.9	44.5 [13.0] 26.0 [7.6] 3.9	43.7 [12.8] 35.9 [10.5] 3.9	42.9 [12.6] 34.3 [10.0] 3.9	41.7 [12.2] 31.9 [9.3] 3.9	41.0 [12.0] 40.7 [11.9] 3.9	40.2 [11.8] 38.9 [11.4] 3.9	39.1 [11.5] 36.1 [10.6] 3.8
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	44.8 [13.1] 28.1 [8.2] 4.2	44.0 [12.9] 26.8 [7.9] 4.2	42.8 [12.5] 24.9 [7.3] 4.1	41.9 [12.3] 34.7 [10.2] 4.2	41.1 [12.0] 33.2 [9.7] 4.2	40.0 [11.7] 30.8 [9.0] 4.1	39.2 [11.5] 39.2 [11.5] 4.2	38.5 [11.3] 37.8 [11.1] 4.1	37.4 [11.0] 35.1 [10.3] 4.1
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	42.9 [12.6] 26.8 [7.9] 4.5	42.2 [12.4] 25.6 [7.5] 4.4	41.0 [12.0] 23.8 [7.0] 4.4	40.0 [11.7] 33.5 [9.8] 4.4	39.3 [11.5] 32.0 [9.4] 4.4	38.2 [11.2] 29.7 [8.7] 4.3	37.4 [10.9] 37.4 [10.9] 4.4	36.7 [10.8] 36.5 [10.7] 4.4	35.7 [10.5] 34.0 [10.0] 4.3
125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	41.1 [12.0] 25.4 [7.5] 4.7	40.3 [11.8] 24.3 [7.1] 4.7	39.2 [11.5] 22.6 [6.6] 4.6	38.2 [11.2] 32.1 [9.4] 4.7	37.5 [11.0] 30.7 [9.0] 4.7	36.5 [10.7] 28.5 [8.4] 4.6	35.5 [10.4] 35.5 [10.4] 4.7	34.8 [10.2] 34.8 [10.2] 4.7	33.9 [9.9] 32.8 [9.6] 4.6	

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH  
Sens —Sensible capacity x 1000 BTUH  
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA—RLQN-A060

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		1980 [934]	1800 [850]	1530 [722]	1980 [934]	1800 [850]	1530 [722]	1980 [934]	1800 [850]	1530 [722]	
DR ①		0.14	0.13	0.1	0.14	0.13	0.1	0.14	0.13	0.1	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	70.3 [20.6] 40.2 [11.8] 3.6	69.0 [20.2] 38.4 [11.3] 3.5	67.1 [19.7] 35.7 [10.5] 3.5	66.2 [19.4] 47.5 [13.9] 3.5	65.0 [19.0] 45.3 [13.3] 3.5	63.2 [18.5] 42.2 [12.4] 3.5	62.2 [18.2] 53.7 [15.7] 3.5	61.0 [17.9] 51.3 [15.0] 3.5	59.4 [17.4] 47.7 [14.0] 3.4
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	68.8 [20.2] 39.6 [11.6] 3.8	67.6 [19.8] 37.9 [11.1] 3.7	65.8 [19.3] 35.2 [10.3] 3.7	64.7 [19.0] 46.8 [13.7] 3.7	63.6 [18.6] 44.8 [13.1] 3.7	61.8 [18.1] 41.6 [12.2] 3.6	60.7 [17.8] 53.1 [15.5] 3.7	59.6 [17.5] 50.7 [14.9] 3.6	58.0 [17.0] 47.1 [13.8] 3.6
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	67.3 [19.7] 38.9 [11.4] 3.9	66.1 [19.4] 37.2 [10.9] 3.9	64.3 [18.8] 34.6 [10.1] 3.9	63.2 [18.5] 46.2 [13.5] 3.9	62.1 [18.2] 44.1 [12.9] 3.9	60.4 [17.7] 41.0 [12.0] 3.8	59.2 [17.3] 52.4 [15.3] 3.9	58.1 [17.0] 50.0 [14.7] 3.8	56.5 [16.6] 46.5 [13.6] 3.8
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	65.7 [19.2] 38.2 [11.2] 4.2	64.5 [18.9] 36.5 [10.7] 4.1	62.7 [18.4] 33.9 [9.9] 4.1	61.6 [18.0] 45.4 [13.3] 4.1	60.5 [17.7] 43.4 [12.7] 4.1	58.8 [17.2] 40.3 [11.8] 4.0	57.6 [16.9] 51.6 [15.1] 4.1	56.5 [16.6] 49.3 [14.4] 4.0	55.0 [16.1] 45.9 [13.4] 4.0
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	64.0 [18.7] 37.3 [10.9] 4.4	62.8 [18.4] 35.7 [10.5] 4.4	61.1 [17.9] 33.2 [9.7] 4.3	59.8 [17.5] 44.6 [13.1] 4.3	58.8 [17.2] 42.6 [12.5] 4.3	57.2 [16.8] 39.6 [11.6] 4.3	55.8 [16.4] 50.8 [14.9] 4.3	54.8 [16.1] 48.5 [14.2] 4.3	53.3 [15.6] 45.1 [13.2] 4.2
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	62.1 [18.2] 36.4 [10.7] 4.6	61.0 [17.9] 34.8 [10.2] 4.6	59.4 [17.4] 32.4 [9.5] 4.5	58.0 [17.0] 43.6 [12.8] 4.6	57.0 [16.7] 41.7 [12.2] 4.6	55.4 [16.2] 38.8 [11.4] 4.5	54.0 [15.8] 49.9 [14.6] 4.6	53.0 [15.5] 47.6 [14.0] 4.5	51.6 [15.1] 44.3 [13.0] 4.5
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	60.2 [17.6] 35.4 [10.4] 4.9	59.2 [17.3] 33.8 [9.9] 4.9	57.5 [16.9] 31.5 [9.2] 4.8	56.1 [16.4] 42.6 [12.5] 4.9	55.1 [16.2] 40.7 [11.9] 4.8	53.6 [15.7] 37.9 [11.1] 4.8	52.1 [15.3] 48.9 [14.3] 4.8	51.2 [15.0] 46.7 [13.7] 4.8	49.8 [14.6] 43.4 [12.7] 4.7
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	58.2 [17.1] 34.3 [10.1] 5.2	57.2 [16.8] 32.8 [9.6] 5.2	55.6 [16.3] 30.5 [8.9] 5.1	54.1 [15.9] 41.6 [12.2] 5.2	53.1 [15.6] 39.7 [11.6] 5.1	51.7 [15.1] 36.9 [10.8] 5.0	50.1 [14.7] 47.8 [14.0] 5.1	49.2 [14.4] 45.7 [13.4] 5.1	47.9 [14.0] 42.5 [12.4] 5.0
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	56.1 [16.4] 33.2 [9.7] 5.5	55.1 [16.2] 31.7 [9.3] 5.5	53.6 [15.7] 29.5 [8.6] 5.4	52.0 [15.2] 40.4 [11.8] 5.5	51.1 [15.0] 38.6 [11.3] 5.4	49.7 [14.6] 35.9 [10.5] 5.3	48.0 [14.1] 46.6 [13.7] 5.4	47.1 [13.8] 44.6 [13.1] 5.4	45.9 [13.4] 41.4 [12.1] 5.3
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	53.9 [15.8] 32.0 [9.4] 5.8	53.0 [15.5] 30.5 [9.0] 5.8	51.5 [15.1] 28.4 [8.3] 5.7	49.8 [14.6] 39.2 [11.5] 5.8	48.9 [14.3] 37.5 [11.0] 5.7	47.6 [13.9] 34.8 [10.2] 5.7	45.8 [13.4] 45.4 [13.3] 5.7	45.0 [13.2] 43.4 [12.7] 5.7	43.8 [12.8] 40.3 [11.8] 5.6
125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	51.6 [15.1] 30.7 [9.0] 6.2	50.7 [14.9] 29.3 [8.6] 6.1	49.3 [14.5] 27.2 [8.0] 6.0	47.5 [13.9] 37.9 [11.1] 6.1	46.7 [13.7] 36.2 [10.6] 6.1	45.4 [13.3] 33.7 [9.9] 6.0	43.5 [12.8] 43.5 [12.8] 6.1	42.7 [12.5] 42.1 [12.3] 6.0	41.6 [12.2] 39.2 [11.5] 5.9	

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH  
Sens —Sensible capacity x 1000 BTUH  
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[ ] Designates Metric Conversions

**DIRECT-DRIVE 208 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								
	Cool	Heat					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]	
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	1296				1303	1290	1269	1212	1143	1015	773		
RLPN-A048	Med	High	120,000 [35.17]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Med	CFM	594	581	560	539	510	470	432	369
		Watts	1661				1640	1605	1550	1479	1368	1259	943		
		High	778				748	708	671	630	570	530	436		
RLPN-A060	Med	Low	80,000 [23.45]	1750/2250	10x10 1 HP [745] 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	1302				1299	1290	1268	1216	1144	1083	901		
RLPN-A060	Med	High	120,000 [35.17]	1750/2250	10x10 1 HP [745] 3 Speed Motor (PSC Motor)	High	CFM	576	562	544	525	497	458	434	378
		Watts	1667				1651	1616	1569	1517	1441	1371	1153		
		High	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	1842				1820	1781	1741	1703	1659	1613	1536		
RLPN-A060	Med	High	135,000 [39.56]	1750/2250	10x10 1 HP [745] 3 Speed Motor (PSC Motor)	High	CFM	455	479	489	516	529	551	574	571
		Watts	2476				2417	2336	2229	2120	1965	1816	1625		
		High	1010				989	977	918	862	781	707	620		

[ ] Designates Metric Conversions

**DIRECT-DRIVE 230/460 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									
	Cool	Heat					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]		
RLPN-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Low	CFM	1346	1329	1287	1212	1157	969	838		
		Watts	596				557	523	483	463	401	371				
		Med	120,000 [35.17]				CFM	1496	1474	1442	1391	1323	1139	932		
RLPN-A048	Med	Med	120,000 [35.17]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor (PSC Motor)	Med	CFM	697	653	622	591	550	486	431		
		Watts	1868				1834	1786	1719	1636	1521	1345	1087			
		High	135,000 [39.56]				CFM	874	842	805	765	729	688	629	559	
RLPN-A060	Med	Low	120,000 [35.17]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13 Motor)	Low	CFM	1678	1599	1557	1521	1471	1430	1384		
		Watts	354				386	409	430	456	470	491				
		High	135,000 [39.56]				CFM	1842	1820	1781	1741	1703	1659	1613	1536	
		High	135,000 [39.56]			High	CFM	455	479	489	516	529	551	574	571	
							Watts	2476	2417	2336	2229	1965	1816	1625		
							Watts	1010	989	977	918	862	781	707	620	

[ ] Designates Metric Conversions

**DIRECT-DRIVE 208/230/460 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									
	Cool	Heat					External Static Pressure—Inches W.C. [kPa]									
							0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]		
RLQN-A036	Low (Tap 2)	Med. (Tap 3)	80,000 [23.45]	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	
							CFM	1438	1398	1360	1322	1284	1245	1200	1137	
							Watts	261	276	291	306	320	334	348	362	
RLQN-A048	Med (Tap 2)	High (Tap 4)	120,000 [35.17]	1400/1800	10x10 3/4 HP [559] 4 Speed Motor (X-13 Motor)	Med. (Tap 3)	CFM	1614	1576	1538	1504	1463	1425	1388	1349	
							Watts	360	382	398	411	427	441	454	466	
							CFM	1403	1345	1310	1269	1212	1164	1083	1028	
							Watts	232	244	255	267	283	297	315	324	
RLQN-A060	Low Cool (Tap 1) High Cool (Tap 3)	Med. (Tap 3)	100,000 [29.31]	1400/1800	10x10 1 HP [745] 5 Speed Motor (X-13 Motor)	Med. (Tap 3)	CFM	1677	1639	1597	1559	1522	1487	1432	1390	
							Watts	354	367	382	396	412	425	442	459	
							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)	High (Tap 3)	135,000 [39.56]	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	
							CFM	1678	1641	1599	1557	1521	1471	1430	1384	
							Watts	354	364	386	409	430	456	470	491	
RLQN-A060	Low Cool (Tap 1) High Cool (Tap 3)	High (Tap 3)	135,000 [39.56]	1st Stage Cool 1350/1400 2nd Stage Cool 1750/2250	10x10 1 HP [745] 5 Speed Motor (X-13 Motor)	Med. (Tap 3)	CFM	1842	1820	1781	1741	1703	1659	1613	1536	
							Watts	455	479	489	516	529	551	574	571	
							CFM	1842	1820	1781	1741	1703	1659	1613	1536	
							Watts	455	479	489	516	529	551	574	571	
RLQN-A060	Low Cool (Tap 1) High Cool (Tap 3)	High (Tap 3)	135,000 [39.56]	1st Stage Cool 1350/1400 2nd Stage Cool 1750/2250	10x10 1 HP [745] 5 Speed Motor (X-13 Motor)	Med. (Tap 4)	CFM	2476	2417	2336	2229	2120	1965	1816	1625	
							Watts	1010	989	977	918	862	781	707	620	

[ ] Designates Metric Conversions

**DIRECT-DRIVE 208 AIRFLOW PERFORMANCE**

		CFM IL/s] Air Delivery/RPM/Watts-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	5-TON 15 SEER 2-STAGE CV & DV MODELS	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
	CFM	1579	1599	1626	1642	1647	1642	1648	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	5-TON 15 SEER 2-STAGE CV & DV MODELS	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
	CFM	2075	2087	2088	2085	2090	2101	2114	2106	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	
Fan & Heating	5-TON 15 SEER 2-STAGE CV & DV MODELS	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

[ ] Designates Metric Conversions



# AIRFLOW PERFORMANCE — 3 TON [10.55 kW] 3 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 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]															
900 [425]	—	—	699	223	765	261	827	292	886	318	941	338	993	1042	360	1087	362	1129	358	1168	348	1203	332	1235	310	1264	282			
1000 [472]	—	—	662	228	717	258	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	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	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	910	869	<b>818</b>	775	728	682	1176	1145	1108	<b>1060</b>	996	968	968	968	968	968	968	968	968	968	968	968	968	968	968	968	968	968	968	968

## COMPONENT AIR RESISTANCE

CFM [L/s]	Standard Indoor Airflow—CFM [L/s]			Resistance—Inches Water [kPa]		
	1000 [472]	1200 [566]	1400 [661]	1600 [755]	1800 [850]	2000 [944]
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	0.05	0.06	0.07	0.08	0.09	0.10
R.A. Damper						

- NOTES:**
- Performance shown with dry coil & standard 2" [50.8 mm] filters.
  - Standard CFM @ .075 lbs./cu. ft.
  - Motor efficiency = 80%
  - BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
  - 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] 3 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]												
1200 [566]	—	—	—	817	425	879	440	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	773	
1400 [661]	—	—	—	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]	—	—	—	885	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	490	905	523	960	559	1013	588	1065	638	1115	681	1164	725	1211	772	1257	821	1301	873	1343	926	1385	979
1700 [802]	—	—	817	493	873	530	928	569	981	1032	654	1082	700	1130	748	1177	798	1222	851	1266	905	1308	962	1349	1021	1390	1080
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
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	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																			
Motor H.P. [W]	1/2 [373]										3/4 [559]																			
Blower Sheave	6.9" Pitch Diameter										6.4" Pitch Diameter																			
Motor Sheave	2.8" - 3.8" Pitch Diameter										3.4" - 4.4" Pitch Diameter																			
Turns Open	0	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5
RPM	1029	984	950	915	855	816	1281	1207	1174	1141	1111	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071

## COMPONENT AIR RESISTANCE

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

**NOTES:**

- Performance shown with dry coil & standard 2" [50.8 mm] filters.
- Standard CFM @ .075 lbs./cu. ft.
- Motor efficiency = 80%
- BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
- Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE — 5 TON [10.55 kW] 3 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 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]	
		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		
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	1104	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	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	1537	1533	
1800 [850]	792	485	831	510	888	563	944	616	999	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)	
	RPM	W	RPM	W	RPM	W
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
RPM	1025	992	945	909	867	810
					1353	1305
					1258	1130
					1223	1167

## COMPONENT AIR RESISTANCE

CFM [L/s]	Standard Indoor Airflow—CFM [L/s]						Resistance—Inches Water [kPa]	
	1600 [755]	1800 [850]	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]		
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	0.08	0.09	0.10	0.11	0.12	0.13		
R.A. Damper								

**NOTES:**

1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
2. Standard CFM @ .075 lbs./cu. ft.
3. Motor efficiency = 80%
4. BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
5. Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE—5 TON [10.55 kW] 3 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 [0.2]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]																
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)	
	3/4 [559]				1 [746]				1 [746]	
Motor H.P. [W]	6.9" Pitch Diameter				6.9" Pitch Diameter				6.4" Pitch Diameter	
Blower Sheave	2.8" - 3.8" Pitch Diameter				4.0" - 5.0" Pitch Diameter				4.0" - 5.0" Pitch Diameter	
Motor Sheave	2				3				4	
Turns Open	936				900				1078	
RPM	967				936				1042	

## COMPONENT AIR RESISTANCE

CFM [L/s]	Standard Indoor Airflow—CFM [L/s]				Resistance—Inches Water [kPa]	
	1600 [755]	1800 [850]	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]
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:**
- Performance shown with dry coil & standard 2" [50.8 mm] filters.
  - Standard CFM @ .075 lbs./cu. ft.
  - Motor efficiency = 80%
  - BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
  - Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions

ELECTRICAL DATA – RLPN										
		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
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

1. Horsepower Per Compressor.  
 2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

**ELECTRICAL DATA – RLPN**

		<b>A048CK</b>	<b>A048CL</b>	<b>A048CM</b>	<b>A048DK</b>	<b>A048DL</b>	<b>A048DM</b>	<b>A048JK</b>	<b>A048YL</b>	<b>A048YM</b>
<b>Unit Information</b>	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
<b>Compressor Motor</b>	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
<b>Condenser Motor</b>	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
<b>Evaporator Fan</b>	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

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

ELECTRICAL DATA – RLPN										
		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
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

1. Horsepower Per Compressor.  
 2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

**ELECTRICAL DATA – RLQN**

		<b>A036CK</b>	<b>A036CL</b>	<b>A036CM</b>	<b>A036DK</b>	<b>A036DL</b>	<b>A036DM</b>	<b>A036JK</b>	<b>A048CK</b>	<b>A048CL</b>
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	187-253	187-253	187-253
	Volts	208/230	208/230	208/230	460	460	460	208/230	208/230	208/230
	Minimum Circuit Ampacity	17/17	16/16	16/16	11	10	10	24/24	24/24	21/21
	Minimum Overcurrent Protection Device Size	20/20	20/20	20/20	15	15	15	30/30	30/30	25/25
	Maximum Overcurrent Protection Device Size	25/25	20/20	20/20	15	15	15	35/35	35/35	30/30
<b>Compressor Motor</b>	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	208/230	208/230
	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	4	4
	Amps (RLA), Comp. 1	9/9	9/9	9/9	5.6	5.6	5.6	14.1/14.1	13.1/13.1	13.1/13.1
	Amps (LRA), Comp. 1	71/71	71/71	71/71	38	38	38	77/77	83.1/83.1	83.1/83.1
<b>Condenser Motor</b>	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	208/230	208/230
	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	1.5/1.5	1.5/1.5
	Amps (LRA, each)	3/3	3/3	3/3	1.9	1.9	1.9	3/3	3/3	3/3
<b>Evaporator Fan</b>	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	208/230	208/230	208/230
	Phase	1	3	3	1	3	3	1	1	3
	HP	1/2	1/2	3/4	1/2	1/2	3/4	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	6/6	2.8/2.8
	Amps (LRA, each)	0/0	11.3/11.3	15/15	0	6.2	8.4	0/0	0/0	11.3/11.3

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.



ELECTRICAL DATA – RLQN											
		A048CM	A048DK	A048DL	A048DM	A048JK	A060CK	A060CV	A060DK	A060DV	A060JK
Unit Information	Unit Operating Voltage Range	187-253	414-506	414-506	414-506	187-253	187-253	187-253	414-506	414-506	187-253
	Volts	208/230	460	460	460	208/230	208/230	208/230	460	460	208/230
	Minimum Circuit Ampacity	22/22	12	11	11	33/33	31/31	32/32	15	16	46/46
	Minimum Overcurrent Protection Device Size	25/25	15	15	15	40/40	35/35	40/40	20	20	60/60
	Maximum Overcurrent Protection Device Size	30/30	15	15	15	50/50	45/45	45/45	20	20	60/60
Compressor Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	460	460	460	208/230	208/230	208/230	460	460	208/230
	Phase	3	3	3	3	1	3	3	3	3	1
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	4	4	4	4	4	5	5	5	5	5
	Amps (RLA), Comp. 1	13.1/13.1	6.1	6.1	6.1	19.9/19.9	16.2/16.2	16.2/16.2	7.6	7.6	28.8/28.8
	Amps (LRA), Comp. 1	83.1/83.1	41	41	41	109/109	110/110	110/110	52	52	152.9/152.9
Condenser Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	460	460	460	208/230	208/230	208/230	460	460	208/230
	Phase	1	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	1/3
	Amps (FLA, each)	1.5/1.5	1	1	1	1.5/1.5	2.2/2.2	2.2/2.2	1	1	2.2/2.2
	Amps (LRA, each)	3/3	1.9	1.9	1.9	3/3	4.9/4.9	4.9/4.9	1.9	1.9	4.9/4.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	460	460	460	208/230	208/230	208/230	460	460	208/230
	Phase	3	1	3	3	1	1	3	1	3	1
	HP	3/4	3/4	1/2	3/4	3/4	1	1	1	1	1
	Amps (FLA, each)	3.4/3.4	3.2	1.4	1.6	6/6	7.6/7.6	9.1/9.1	4	4.6	7.6/7.6
	Amps (LRA, each)	16.8/16.8	0	6.2	8.4	0/0	0/0	0/0	0	0	0/0

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

Unit Model No. RLPN-	Heater Kit Model No. RXJJ-	Heater kW @ 208/240 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner 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
A036GM	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

Unit Model No. RLPN-	Heater Kit Model No. RXJJ-	Heater kW @ 208/240 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)
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

Unit Model No. RLPN-	Heater Kit Model No. RXJJ-	Heater kW @ 480 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner 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
A036DL	A20D	19.2	23.3	32	35	30	30	11	15
	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
A036DM	A15D	14.4	17.4	24	25	22	25	10	15
	A20D	19.2	23.3	31	35	30	30	10	15
	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
A048DK	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
	NONE	—	—	11	15	—	—	11	15
	A06D	5.6	6.7	11	15	9	15	11	15
A048DL	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
	NONE	—	—	11	15	—	—	11	15

Unit Model No. RLPN-	Heater Kit Model No. RXJJ-	Heater kW @ 480 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)
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	25	17	20	11	15
	A15D	14.4	17.4	24	30	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	25	15	15	15	20
	A12D	11.2	13.5	22	30	17	20	15	20
	A15D	14.4	17.4	27	35	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	25	17	20	13	20
	A15D	14.4	17.4	24	30	22	25	13	20
	A20D	19.2	23.3	32	35	30	30	13	20
A060DM	A24D	24	28.9	39	40	37	40	13	20
	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	25	17	20	13	20
	A15D	14.4	17.4	25	30	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	

Unit Model No. RLPN-	Heater Kit Model No. RXJJ-	Heater kW @ 208/240 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner 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

Unit Model No. RLPN-	Heater Kit Model No. RXJJ-	Heater kW @ 600 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)
A036YL	NONE A15Y A20Y	— 14.4 19.2	— 13.9 18.8	7 19 26	15 20 30	— 18 24	— 20 25	7 7 7	15 15 15
A036YM	NONE A15Y A20Y	— 14.4 19.2	— 13.9 18.8	7 19 26	15 20 30	— 18 24	— 20 25	7 7 7	15 15 15
A048YL	NONE A15Y A20Y	— 14.4 19.2	— 13.9 18.8	8 19 26	15 20 30	— 18 24	— 20 25	8 8 8	15 15 15
A048YM	NONE A15Y A20Y	— 14.4 19.2	— 13.9 18.8	8 19 26	15 20 30	— 18 24	— 20 25	8 8 8	15 15 15
A060YL	NONE A15Y A20Y	— 14.4 19.2	— 13.9 18.8	10 19 26	15 20 30	— 18 24	— 20 25	10 10 10	15 15 15
A060YM	NONE A15Y A20Y	— 14.4 19.2	— 13.9 18.8	10 20 26	15 20 30	— 18 24	— 20 25	10 10 10	15 15 15

Unit Model No. RLQN-	Heater Kit Model No. RXJJ-	Heater kW @ 208/240 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner 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	31/35	35/35	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	56/63	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	—	—	24/24	35/35	—	—	24/24	35/35
	A06C	4.2/5.6	11.7/13.5	24/25	35/35	15/17	15/20	24/24	35/35
	A10C	7.2/9.6	20/23.1	33/37	35/40	25/29	25/30	24/24	35/35
	A12C	8.4/11.2	23.4/27	37/42	40/45	30/34	30/35	24/24	35/35
	A15C	10.8/14.4	30.1/34.7	46/51	50/60	38/44	40/45	24/24	35/35
	A20C	14.4/19.2	40/46.3	58/66	60/70	50/58	50/60	24/24	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



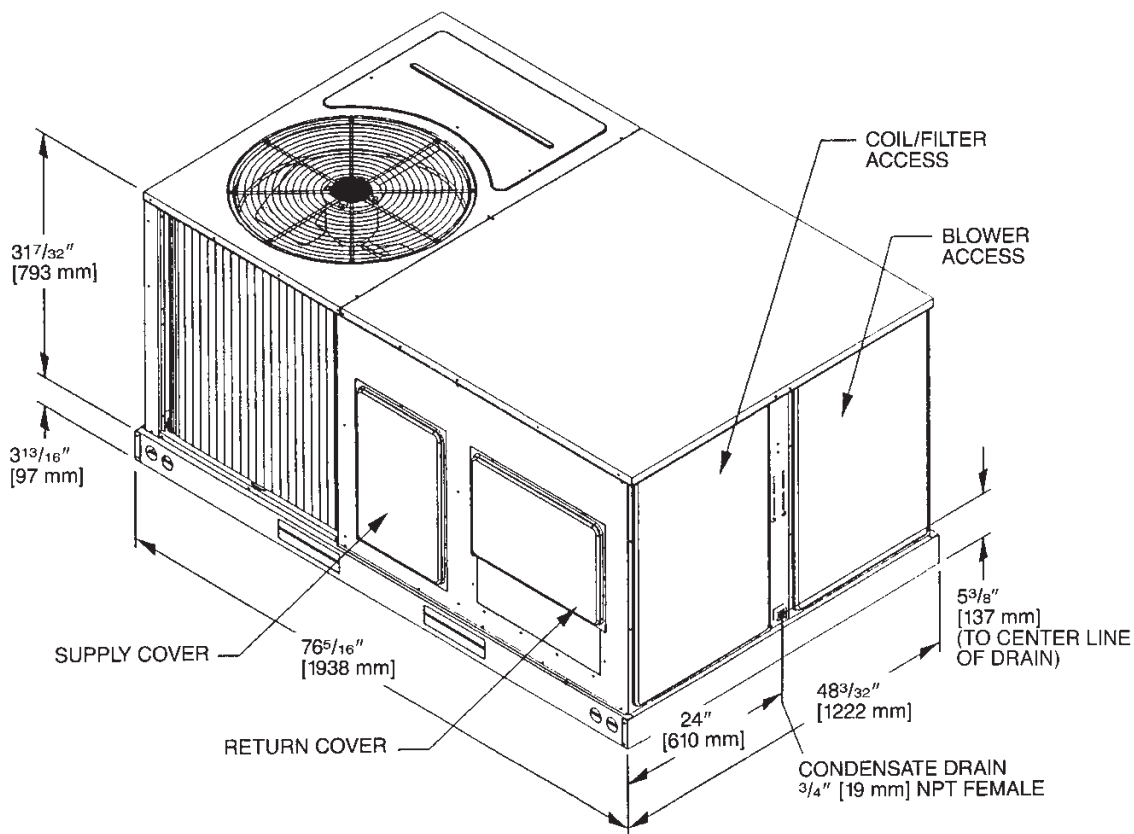
Unit Model No. RLQN-	Heater Kit Model No. RXJJ-	Heater kW @ 208/240 V	Heater Kit FLA	Unit Min. Ckt. Ampacity	Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)	Air Conditioner Min. Ckt. Ampacity	Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)
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	—	—	31/31	45/45	—	—	31/31	45/45
	A06C	4.2/5.6	11.7/13.5	31/31	45/45	15/17	15/20	31/31	45/45
	A10C	7.2/9.6	20/23.1	35/39	45/45	25/29	25/30	31/31	45/45
	A12C	8.4/11.2	23.4/27	39/44	45/45	30/34	30/35	31/31	45/45
	A15C	10.8/14.4	30.1/34.7	48/53	50/60	38/44	40/45	31/31	45/45
	A20C	14.4/19.2	40/46.3	60/68	60/70	50/58	50/60	31/31	45/45
A060CV	NONE	—	—	32/32	45/45	—	—	32/32	45/45
	A06C	4.2/5.6	11.7/13.5	32/32	45/45	15/17	15/20	32/32	45/45
	A10C	7.2/9.6	20/23.1	37/41	45/45	25/29	25/30	32/32	45/45
	A12C	8.4/11.2	23.4/27	41/46	45/50	30/34	30/35	32/32	45/45
	A15C	10.8/14.4	30.1/34.7	50/55	50/60	38/44	40/45	32/32	45/45
	A20C	14.4/19.2	40/46.3	62/70	70/70	50/58	50/60	32/32	45/45
	A24C	18/24	50/57.7	74/84	80/90	63/73	70/80	32/32	45/45

Unit Model No. RLQN-	Heater Kit Model No. RXJJ-	Heater KW @ 480 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner 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

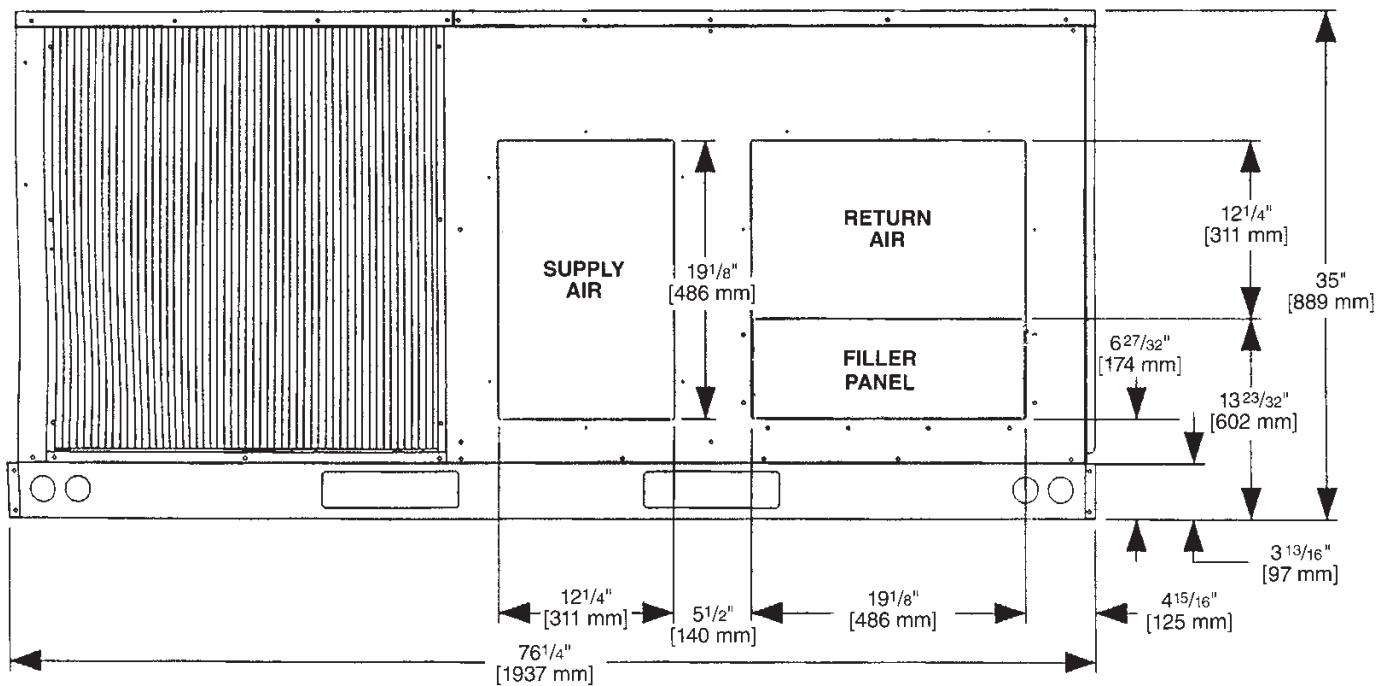
Unit Model No. RLQN-	Heater Kit Model No. RXJJ-	Heater kW @ 480 V	Heater Kit FLA	Unit Min. Ckt. Ampacity	Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)	Air Conditioner Min. Ckt. Ampacity	Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA)
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

Unit Model No. RLON-	Heater Kit Model No. RXJJ-	Heater kW @ 208/240 V	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 Conditioner Min. Ckt. Ampacity	Air Conditioner 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

3 TO 5 TON [10.6 TO 17.6 kW] MODELS

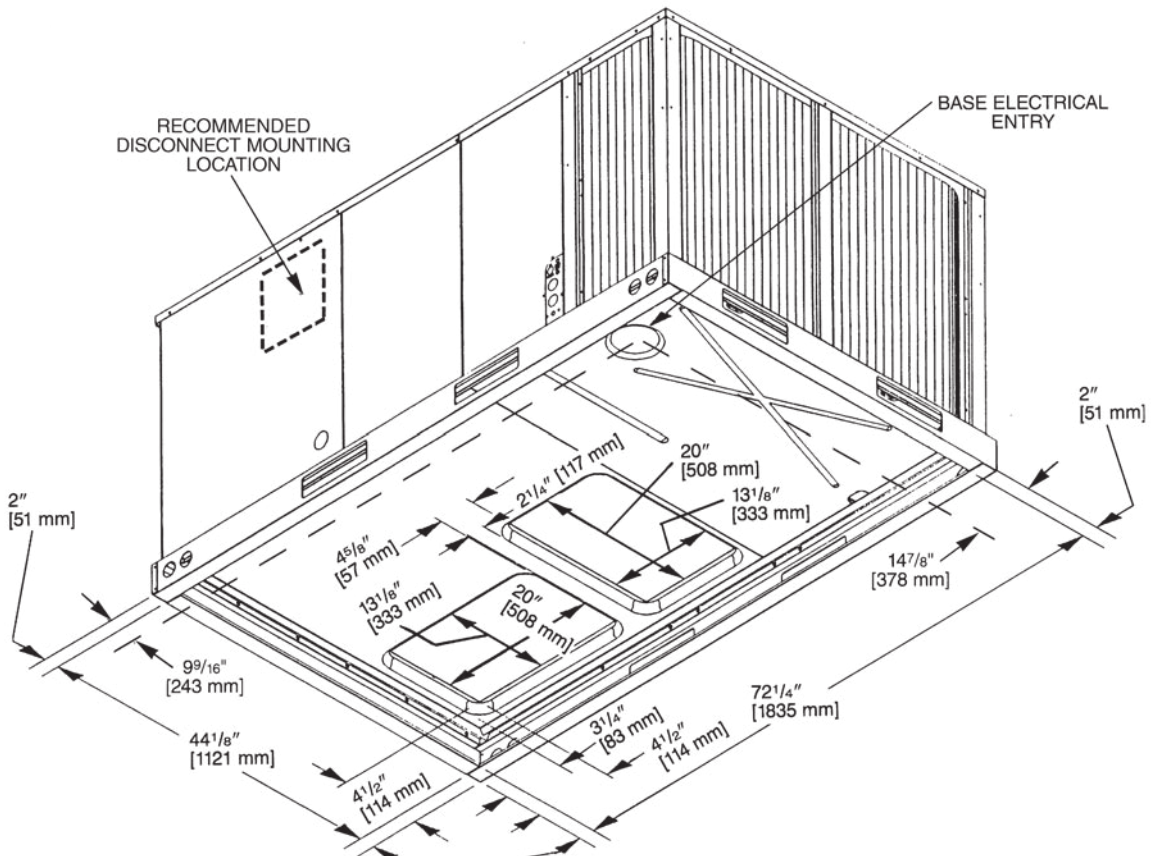
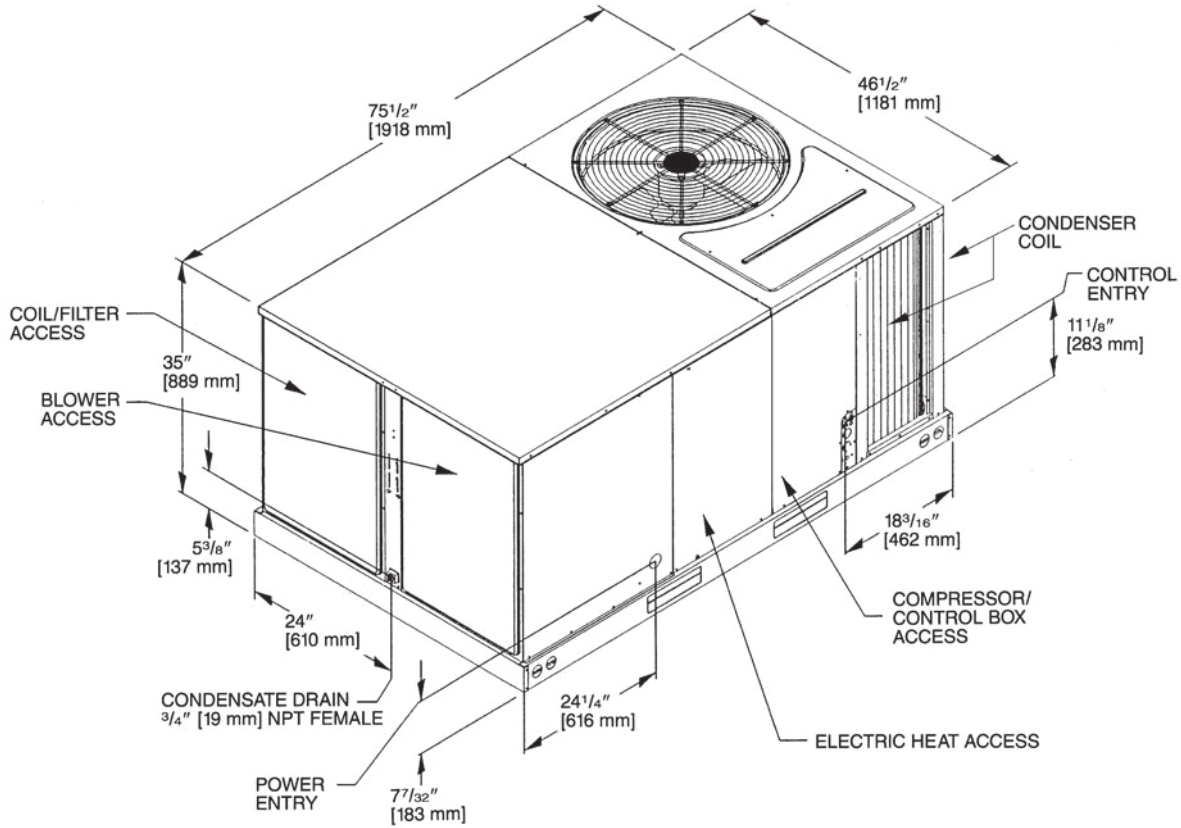


SUPPLY AND RETURN DIMENSIONS



[ ] Designates Metric Conversions

3 TO 5 TON [10.6 TO 17.6 kW] MODELS



[ ] Designates Metric Conversions

**BOTTOM VIEW**

## WEIGHTS

Accessory	3-5 Ton [10.6-17.6 kW]	
	Shipping	Operating
	lbs [kg]	lbs [kg]
Economizer with Single Enthalpy/Smoke Detector	70 [32]	60 [27]
Power Exhaust	70 [32]	67 [30]
Fresh Air Damper (Manual)	11 [5]	9 [4]
Fresh Air Damper (Motorized)	13 [6]	11 [5]
Roof Curb 14"	92 [42]	88 [40]
Roof Curb 24"	108 [49]	104 [47]
Concentric Diffuser 18" Flush	37 [17]	26 [12]
Concentric Diffuser 20" Flush	54 [24]	42 [19]
Side Discharge Concentric Diffuser RXRN-FA60	35 [16]	20 [9]
Side Discharge Concentric Diffuser RXRN-FA65	55 [25]	40 [18]

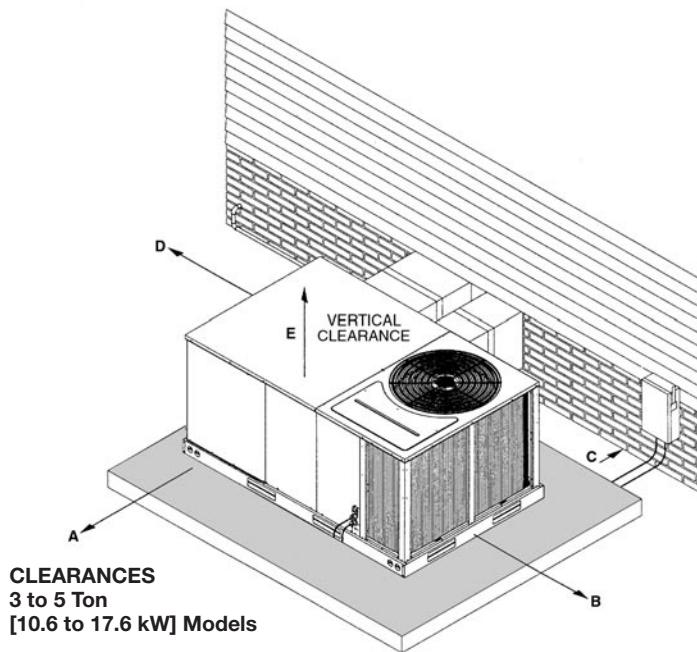
## CLEARANCES

### (3 to 5 Ton [10.6 to 17.6 kW] Models)

The following minimum clearances are recommended for proper unit performance and serviceability.

Recommended Clearance in. [mm]	Location
48 [1219]	A - Front
18 [457]	B - Condenser Coil
*12 [305]	C - Duct Side
36 [914]	D - Evaporator End
60 [1524]	E - Above
*57" [1448 mm] With Economizer	

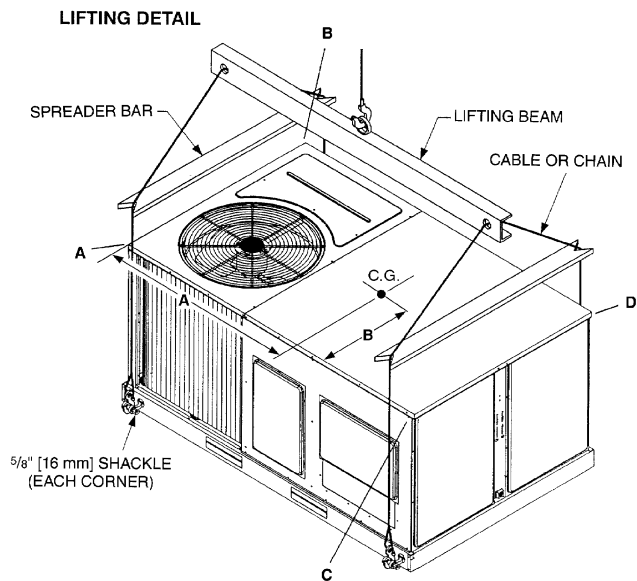
**NOTE:** Supply duct may be installed with "0" inch clearance to combustible materials, provided 1" [25.4 mm] minimum. Fiberglass insulation is applied either inside or on the outside of the duct.



## CENTER OF GRAVITY (C.G.)

Capacity Tons [kW]	A in. [mm]	B in. [mm]
3-5 [10.6-17.6]	38 <sup>1</sup> / <sub>4</sub> [972]	25 <sup>3</sup> / <sub>4</sub> [654]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
3-5 [10.6-17.6]	22%	27%	23%	28%



[ ] Designates Metric Conversions

<b>Accessory Description</b>	<b>Model Application 3 to 5 Ton [10.6 to 17.6 kW]</b>	<b>Accessory Model No. 3 to 5 Ton [10.6 to 17.6 kW]</b>	<b>Factory Installed 3 to 5 Ton [10.6 to 17.6 kW]</b>
Electric Heater Kits	RLPN/RLQN	RXJJ-A06 (J,C,D) RXJJ-A10 (J,C,D) RXJJ-A11 (J,C,D) RXJJ-A12 (J,C,D) RXJJ-A15 (J,C,D) RXJJ-A20 (J,C,D) RXJJ-A21 (J,C,D) RXJJ-A24 (J,C,D)	See Heater Kit Electric Table
Roofcurb, 14"	RLPN/RLQN	RXKG-CAD14	No
Roofcurb, 24"	RLPN/RLQN	RXKG-CAD24	No
Roofcurb Adapters	RLPN/RLQN	RXRX-BBCDB21 RXRX-BBCDB22 RXRX-BBCDB23	No
Economizer with Single Enthalpy ①	RLPN/RLQN	AXRD-01RECAM3	Yes
Economizer with Smoke Detector ①	RLPN/RLQN	AXRD-01RECBM3	Yes
Dual Enthalpy Kit	RLPN/RLQN	RXRX-AV02	No
CO <sub>2</sub> Sensor	RLPN/RLQN	RXRX-AR02	No
Power Exhaust	RLPN/RLQN	AXRX-BGF04 (C, D & Y)	No
Fresh Air Damper Manual	RLPN/RLQN	AXRF-FBA1	No
Fresh Air Damper Motorized	RLPN/RLQN	AXRF-FBB1	No
Rectangular to Round 18" Duct Adapters for Concentric Diffuser	RLPN/RLQN	RXMC-CB03	No
Rectangular to Round 20" Duct Adapters for Concentric Diffuser	RLPN/RLQN	RXMC-CB04	No
Concentric Diffuser 18" Step	RLPN/RLQN	RXRN-FA60, RXRN-FA65	No
Concentric Diffuser 18" Flush	RLPN/RLQN	RXRN-FA70, RXRN-FA75	No
Rectangular to Round 16" Side	RLPN/RLQN	RXMC-BB01	No
Louver Kit (2 Sides) 3-Ton	RLPN/RLQN	AXRX-AAD02B	Yes
Louver Kit (3 Sides) 4 & 5-Ton	RLPN/RLQN	AXRX-AAD01B	Yes
Time Delay	RLPN/RLQN	RXMD-B01	Yes
Low Ambient Control to 0°F [-18°C]	RLPN/RLQN	RXRZ-A04	Yes
Freeze Stat	RLPN/RLQN	RXRX-AM05	Yes

\*Voltage  
 J = 208-230 VAC-1PH-60HZ      D = 460 VAC-3PH-60HZ  
 C = 208-230 VAC-3PH-60HZ

**NOTES:** ① Economizer is designed for downflow or horizontal applications.

[ ] Designates Metric Conversions

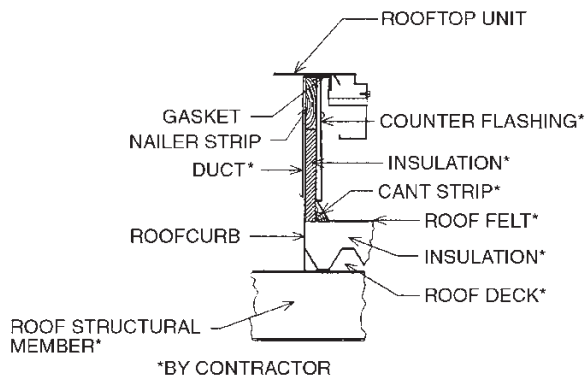
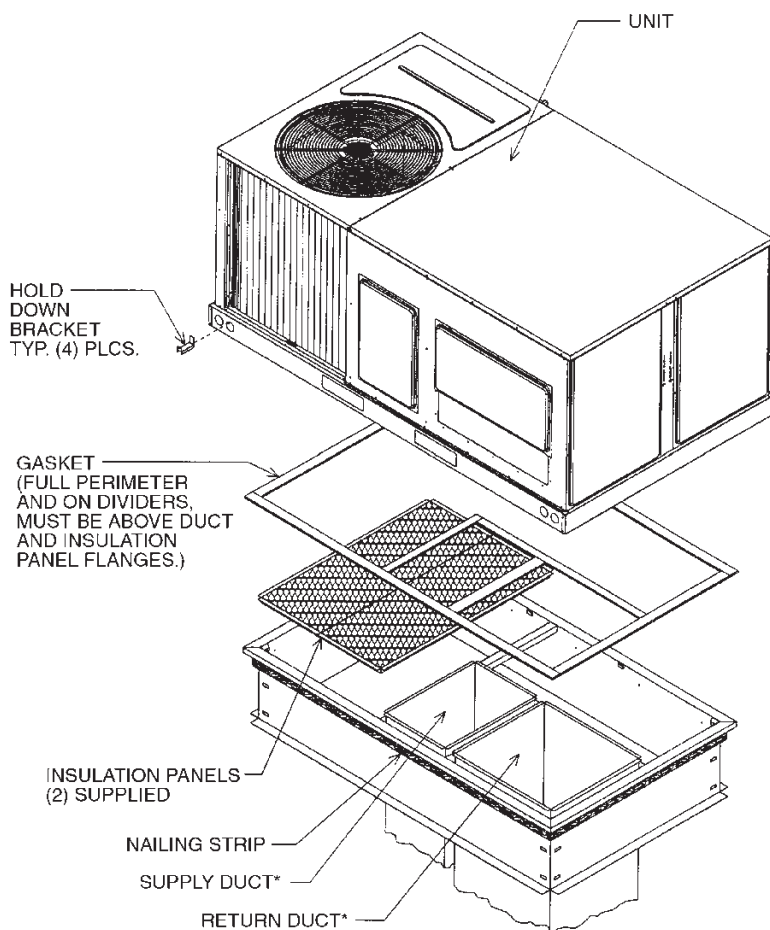


## ROOFCURBS (Full Perimeter)

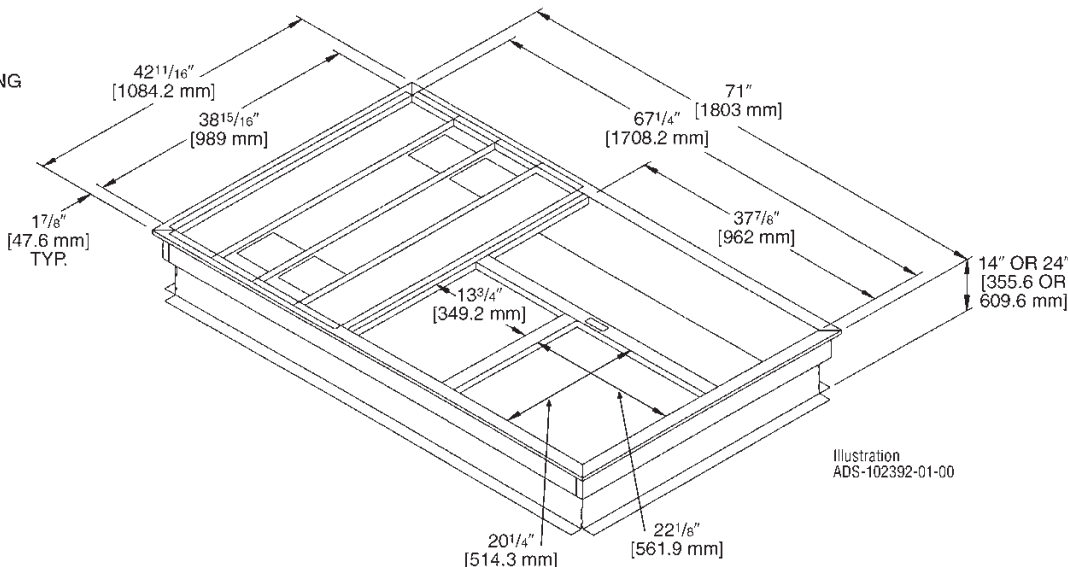
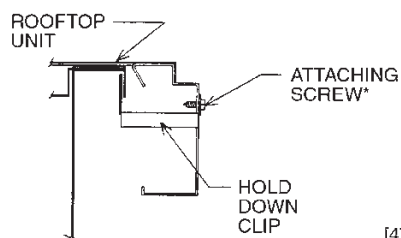
- Russell™ By Rheem’s new roofcurb design can be utilized on 3 through 5 ton [10.6-17.6 kW] models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the “Thru the Curb” electrical connection opening provided on the unit base pan.
- 2" [51 mm] x 4" [102 mm] Nailer provided.
- Insulating panels provided.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

Roofcurb Model	Height of Curb
RXKG-CAD14	14" [356 mm]
RXKG-CAD24	24" [610 mm]

## TYPICAL INSTALLATION



## ROOFCURB FOR RLNN 3-5 TON [10.6-17.6 kW] MODELS RLPN 3-5 TON [10.6-17.6 kW] MODELS



[ ] Designates Metric Conversions

Illustration  
ADS-102392-01-00

## ROOFCURB ADAPTERS

### Old Models

#### MEDIUM CABINET (3 TON [11 kW])

(-)SNC, (-)SND, (-)SNE  
 (-)RGE, (-)RGF, (-)RGG  
 (-)PNC, (-)PND

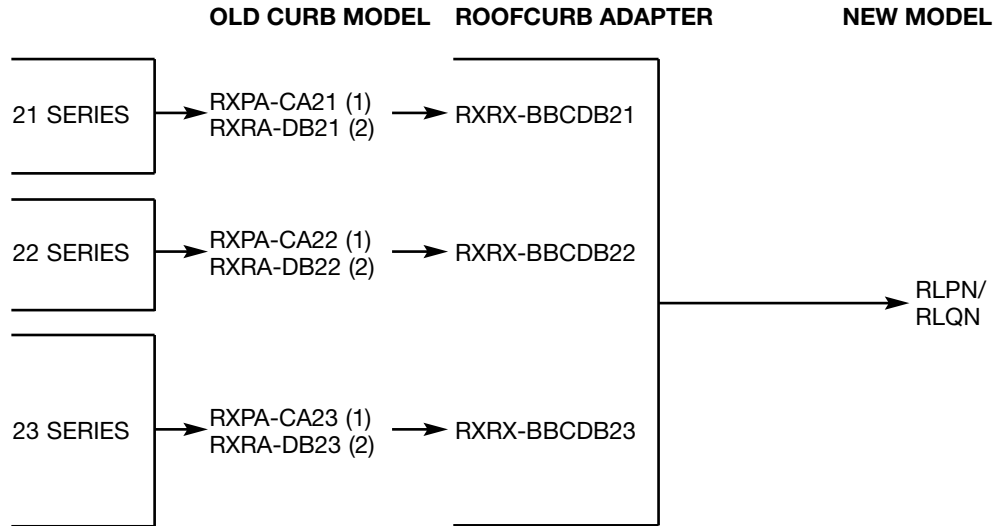
#### LARGE CABINET

**(3-3.5 TON [11-12 kW])**

(-)RGE, (-)RGF, (-)RGG,  
 (-)RGH (3 TON [11 kW])

#### EXTRA LARGE CABINET (3.5-5 TON [12-18 kW])

(-)SNC, (-)SND, (-)SNE  
 (-)RGE, (-)RGF,  
 (-)RGG (4-5 TON [14-18 kW])  
 (-)PNC, (-)PND, (-)RGH  
 (3.5, 4 TON [12-14 kW])

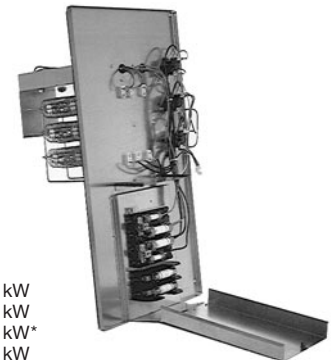
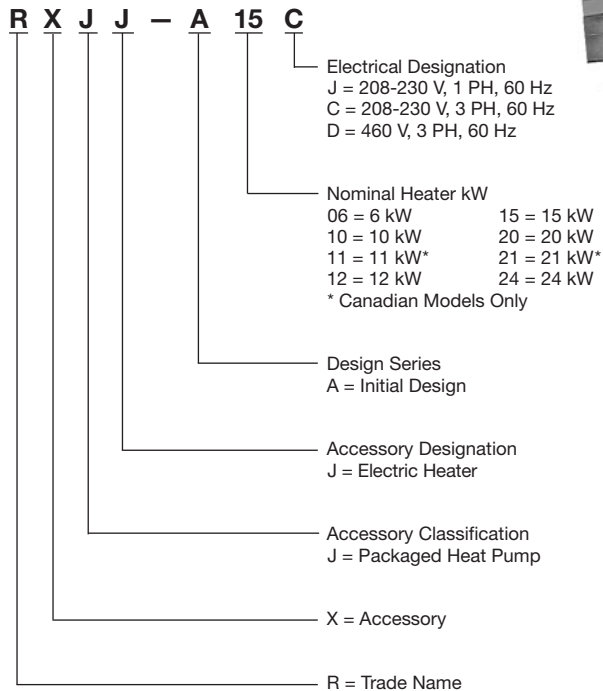


## Field Installed Resistance Heater Kits

Electric Heater Kits are designed for field installation using either single-point power wiring or dual circuit wiring. Low voltage plugs are provided to allow for quick connection to the unit. Removing a block-off panel on the unit allows the heater elements to be inserted into the supply air down stream from the indoor coil and supply air blower.

[ ] Designates Metric Conversions

### Model Number Identifier:



## Roofcurb Adapters

Carrier to Russell™ By Rheem Roofcurb Adapter - RXXR-EACC35\* Replaces Carrier/Bryant/ICP Models:

Carrier Models		
Packaged G/E	Packaged AC	Packaged HP
48DJ*004 - 007	50DJ004 - 007	50QJ004-006
48GJ*006	50GJ006	
48HE*003 - 006	50HE003 - 006	50HEQ003 - 006
48HJ*004 - 007	50HJ004 - 007	50HJQ004 - 007
48HM*007	50HM007	
48LJ*004 - 007	50LJ004 - 007	50LJQ004 - 006
48TC*004 - 007	50TC004 - 007	50TCQ004 - 007
48TF-004 - 007	50TFF004 - 007	50TFQ004 - 007
48TJ*004 - 007	50TJ004 - 007	50TJQ004 - 007
48TM*004 - 007	50TM004 - 007	

Bryant Models		
Packaged G/E	Packaged AC	Packaged HP
581A*V036 - 072	551A*X036 - 072	549B*X036 - 072
581B*V036 - 072	551B*X036 - 072	
580C*V036 - 072	558C*X036 - 072	548C*X036 - 060
580D*V036 - 072	558D*X036 - 072	548D*X036 - 072
580F*V036 - 072	558F*X036 - 072	548F*X036 - 072
580J*04 - 07	558J*04 - 07	548J*04 - 07

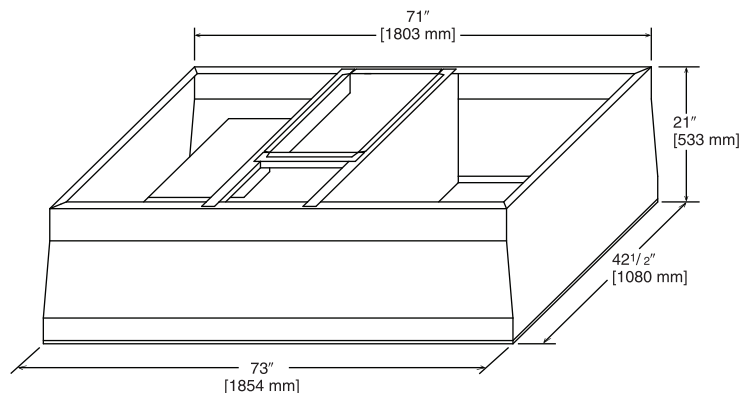
ICP Models		
Packaged G/E	Packaged AC	Packaged HP
PGE036 - 072	PAE036 - 072	PHE072
PGH036 - 072	PAH036 - 072	PHH036 - 072
PGS072	PAS072	PHS072
RGS036 - 072	RAS036 - 072	RHS036 - 072

\*RXXR-EACC35 Carrier to Russell™ By Rheem roofcurb adapter requires high static "M" drive for all tonnages.

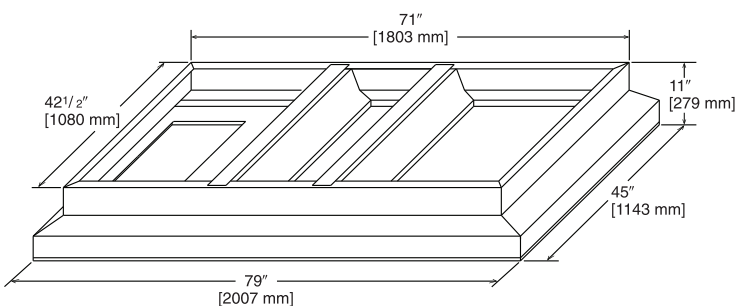
Trane to Russell™ By Rheem Roofcurb Adapter - RXXR-EACT35 Replaces Trane Models:

Trane Models		
Packaged G/E	Packaged AC	Packaged HP
YCD-036,037,048,049,060	TCD-036,037,048,049,060	WCD-036,037,048,049,060

Model #	CFM	Static Pressure
RXXR-EACT35	1000	.08
	1200	.10
	1400	.15
	1600	.18
	1800	.21
	2000	.25
	2200	.30



Model #	CFM	Static Pressure
RXXR-EACC35	1000	.20
	1200	.25
	1400	.30
	1600	.35
	1800	.40
	2000	.45
	2200	.50



[ ] Designates Metric Conversions

## ECONOMIZERS

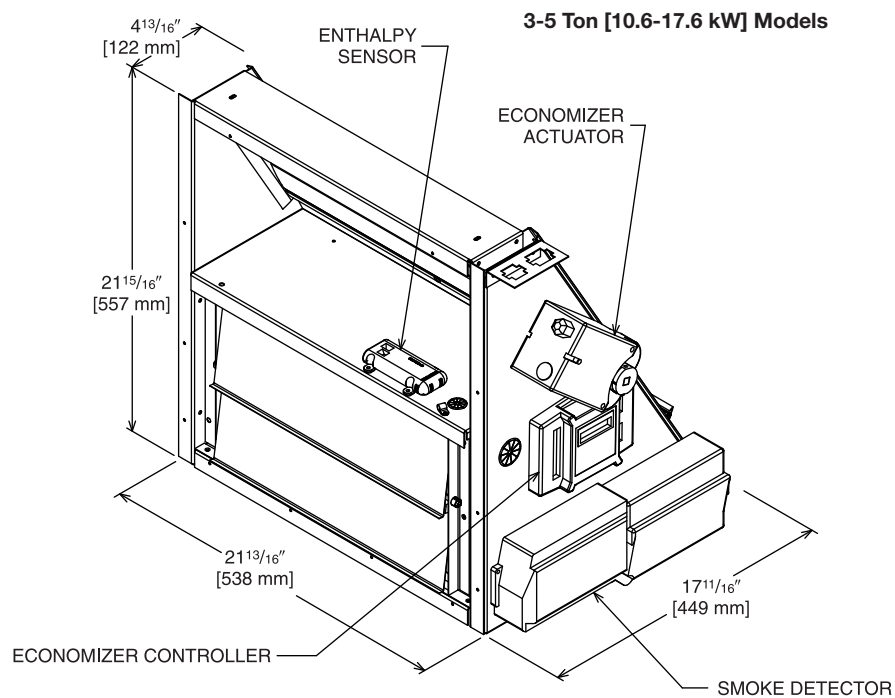
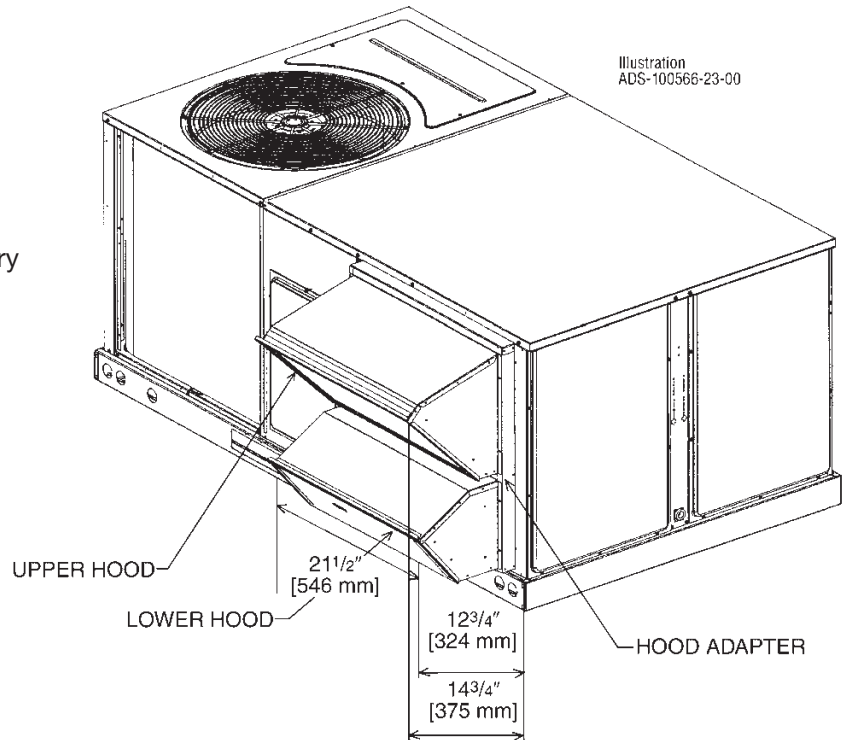
AXRD-01RECAM3—3-5 Ton [10.6-17.6 kW] Single Enthalpy Models

AXRD-01RECBM3—3-5 Ton [10.6-17.6 kW] Single Enthalpy w/Smoke Detector Models

RXR-01AV02—Dual Enthalpy Kit  
3-5 Ton [10.6-17.6 kW] Models

RXR-01AR02—3-5 Ton [10.6-17.6 kW] Models Optional CO<sub>2</sub> Sensor

- Features **Honeywell JADE™** Digital Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 12-pin Electrical Connections
- Pre-configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy Upgrade Kit
- CO<sub>2</sub> Input Sensor Available (Field Installed)
- Economizer slips in complete for Downflow or Horizontal Duct application
- Field Assembled Hood Ships with Economizer
- Field Installed Power Exhaust Available

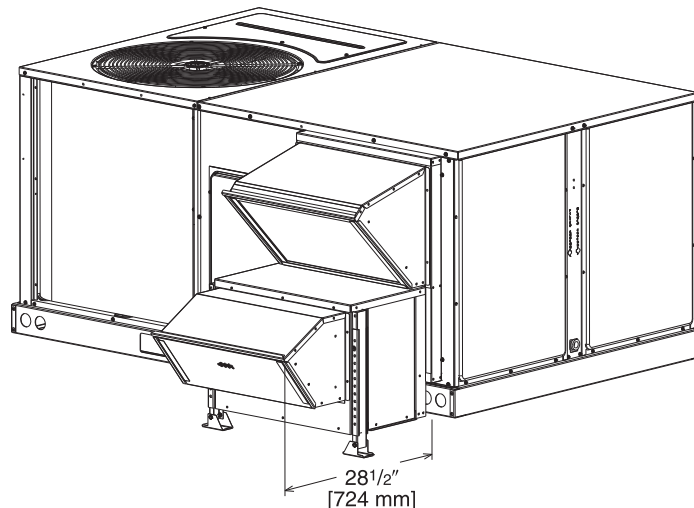


[ ] Designates Metric Conversions

## INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

**AXRX-BGF04C – 3-5 Ton [10.6-17.6 kW] Models**  
 208-230V, 1 PH and 3 PH, 60 Hz  
**AXRX-BGF04D – 3-5 Ton [10.6-17.6 kW] Models**  
 460V, 3 PH, 60 Hz  
**AXRX-BGF04Y – 3-5 Ton [10.6-17.6 kW] Models**  
 575V, 3 PH, 60 Hz

- For **Honeywell** Economizer
- Downflow or horizontal applications
- Requires separate 208-230 Volt – 1 PH power supply with disconnect or requires separate 460V – 3 PH power supply with disconnect
- Adjustable switch on economizer, factory preset to energize power exhaust at 95% outside air position
- Polarized plug connects power exhaust relay to economizer



## POWER EXHAUST KIT FOR AXRD-01REC(-) ECONOMIZERS

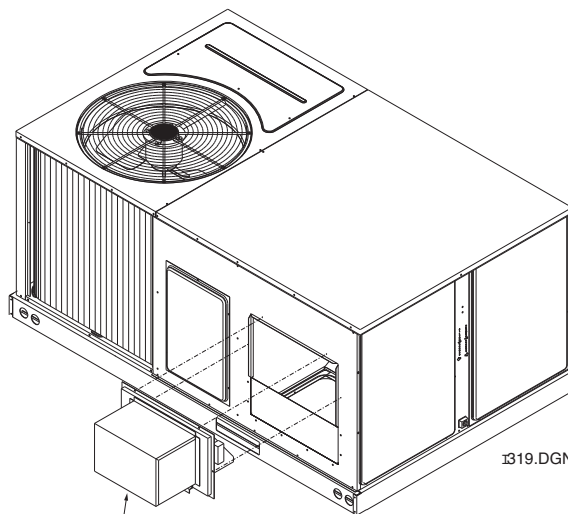
Model No.	No. of Fans	Volts	Phase	Watts (ea.)	High Speed		FLA (ea.)	LRA (ea.)
					CFM ①	RPM		
AXRX-BGF04C	1	208/230	1	1000	2500	1725	4.4	23.7
AXRX-BGF04D	1	460	1	800	2370	1620	1.8	4.1
AXRX-BGF04Y	1	575	1	800	2370	1620	1.5	3.3

AXRX-BGF04C – 3-5 Ton [10.6-17.6 kW] Models  
 208/230V, 1PH and 3PH, 60 Hz  
 AXRX-BGF04D – 3-5 Ton [10.6-17.6 kW] Models  
 460V, 3PH, 60 Hz  
 AXRX-BGF04Y – 3-5 Ton [10.6-17.6 kW] Models  
 575V, 3PH, 60 Hz

## FRESH AIR DAMPER

**3-5 Ton [10.6-17.6 kW] Models**  
 AXRF-FBA1 (Manual)  
 AXRF-FBB1 (Motorized)

[ ] Designates Metric Conversions

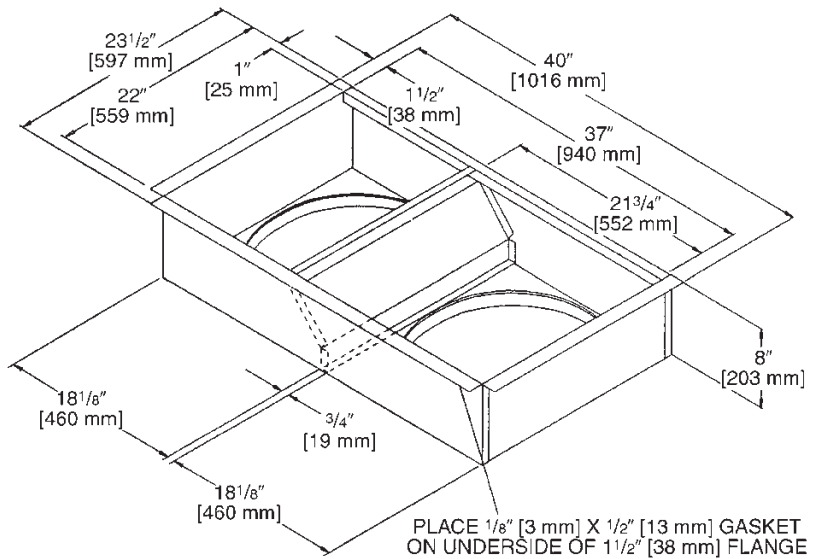


FRESH AIR DAMPER

## DUCT ADAPTERS (3 TO 5 TON [10.6 TO 17.6 kW] MODELS)

### Rectangular to Round Transitions (Downflow)

Two sizes available (18" [457 mm] and 20" [508 mm] round) fit all units. Drops into and secures to RXKG- Roofcurbs. For use with Concentric Diffusers.



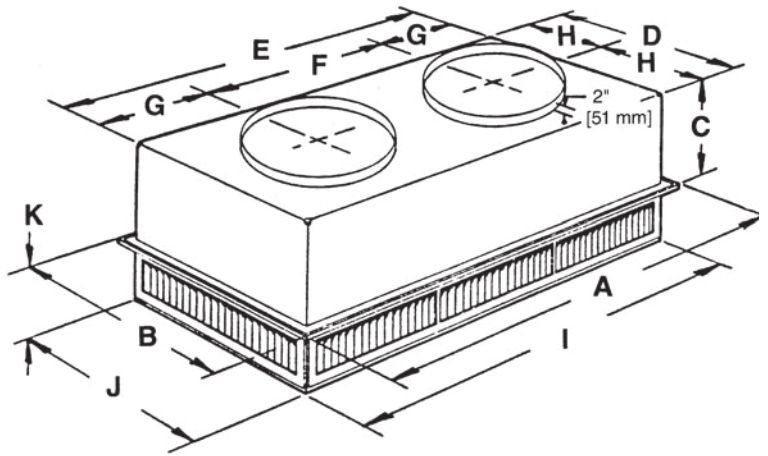
Accessory Model No.	Model Application Tons [kW]	Size in. [mm]
RXMC-CB03	3-5 [10.6-17.6]	18 [457] Round
RXMC-CB04	3-5 [10.6-17.6]	20 [508] Round

[ ] Designates Metric Conversions

### SIDE DISCHARGE CONCENTRIC DIFFUSER

RXRN-FA60 (3 to 5 Ton [10.6 to 17.6 kW] Models)  
RXRN-FA65 (3 to 7.5 Ton [10.6 to 26.4 kW] Models)

For Use With Duct Adapter (RXMC)



### DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	I	J	K	Duct Size
RXRN-FA60	47 5/8" [1210 mm]	23 5/8" [600 mm]	11 3/8" [289 mm]	21 1/2" [546 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	10 3/4" [273 mm]	45 1/2" [1156 mm]	21 1/2" [546 mm]	7 1/8" [181 mm]	18RD
RXRN-FA65	47 5/8" [1210 mm]	29 5/8" [752 mm]	14 3/8" [365 mm]	27 1/2" [699 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	13 3/4" [349 mm]	45 1/2" [1156 mm]	27 1/2" [699 mm]	8 1/8" [206 mm]	20RD

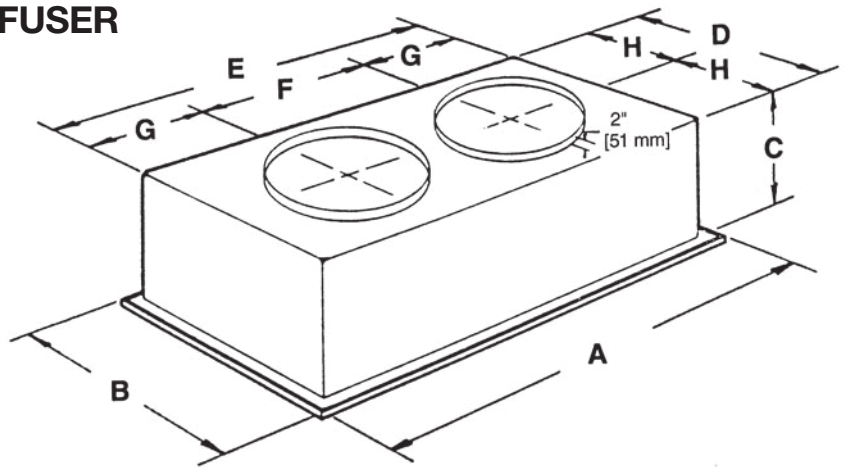
### ENGINEERING DATA

Model No.	A	B	C	D	E	F	G	H	I	J	K	Duct Size
RXRN-FA60	47 5/8" [1210 mm]	23 5/8" [600 mm]	11 3/8" [289 mm]	21 1/2" [546 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	10 3/4" [273 mm]	45 1/2" [1156 mm]	21 1/2" [546 mm]	7 1/8" [181 mm]	18RD
RXRN-FA65	47 5/8" [1210 mm]	29 5/8" [752 mm]	14 3/8" [365 mm]	27 1/2" [699 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	13 3/4" [349 mm]	45 1/2" [1156 mm]	27 1/2" [699 mm]	8 1/8" [206 mm]	20RD

## FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA70 (3 to 5 Ton [10.6 to 17.6 kW] Models)

For Use With Duct Adapter (RXMC)



### DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	Duct Size
RXRN-FA70	47 <sup>5</sup> / <sub>8</sub> " [1210 mm]	23 <sup>5</sup> / <sub>8</sub> " [600 mm]	13 <sup>1</sup> / <sub>2</sub> " [343 mm]	21" [533 mm]	45" [1143 mm]	22 <sup>1</sup> / <sub>2</sub> " [572 mm]	11 <sup>1</sup> / <sub>4</sub> " [286 mm]	10 <sup>1</sup> / <sub>2</sub> " [267 mm]	18RD
RXRN-FA75	47 <sup>5</sup> / <sub>8</sub> " [1210 mm]	29 <sup>5</sup> / <sub>8</sub> " [752 mm]	16 <sup>5</sup> / <sub>8</sub> " [442 mm]	27" [666 mm]	45" [1143 mm]	22 <sup>1</sup> / <sub>2</sub> " [572 mm]	11 <sup>1</sup> / <sub>4</sub> " [286 mm]	13 <sup>1</sup> / <sub>2</sub> " [343 mm]	20RD

### ENGINEERING DATA

Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA70	1000 [472]	.14	15-20	391	694	20
	1200 [566]	.17	16-22	469	833	25
	1400 [661]	.20	17-24	547	972	30
	1600 [755]	.24	18-25	625	1111	30
	1800 [850]	.30	20-28	703	1250	35
	2000 [944]	.36	21-29	781	1389	40
	2200 [1038]	.40	22-30	859	1528	40
RXRN-FA75	2600 [1227]	.17	19-24	663	1294	30
	2800 [1321]	.20	20-28	714	1393	35
	3000 [1416]	.25	21-29	765	1492	35
	3200 [1510]	.31	22-29	616	1592	40
	3400 [1605]	.37	22-30	667	1692	40

[ ] Designates Metric Conversions

**Guide Specifications RLPN/RLQN-A036 thru A060**

You may copy this document directly into your building specification. This specification is written to comply with the 2004 version of the “master-format” as published by the Construction Specification Institute. [www.csinet.org](http://www.csinet.org).

**ELECTRIC HEAT PACKAGED ROOFTOP**

**HVAC Guide Specifications**

**Size Range: 3 to 5 Nominal Tons**

**Section Description**

**23 06 80 Schedules for Decentralized HVAC Equipment**

**23 06 80.13 Decentralized Unitary HVAC Equipment Schedule**

**23 06 80.13.A. Rooftop unit schedule**

1. Schedule is per the project specification requirements.

**23 07 16 HVAC Equipment Insulation**

**23 07 16.13 Decentralized, Rooftop Units:**

1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 lb density, flexible fiberglass insula1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 lb density, flexible fiberglass insula-tion bonded with a phenolic binder, with aluminum foil facing on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

**23 09 13 Instrumentation and Control Devices for HVAC**

**23 09 13.23 Sensors and Transmitters:**

**23 09 33 Electric and Electronic Control System for HVAC**

**23 09 33.13 Decentralized, Rooftop Units:**

**23 09 33.13.A. General:**

1. Shall be complete with self-contained low-voltage control circuit. Transformer size is 40VA.
2. Shall utilize color-coded wiring.
3. Unit shall provide “pigtail” termination points for connection of control wiring.

**23 09 33.13.B. Safeties:**

1. Compressor over-temperature, over current.
2. Loss of charge switch.
3. High-pressure switch.
4. Automatic reset, motor thermal overload protector.

**23 09 93 Sequence of Operations for HVAC Controls**

**23 09 93.13 Decentralized, Rooftop Units:**

**23 09 93.13 INSERT SEQUENCE OF OPERATION**

**23 40 13 Panel Air Filters**

**23 40 13.13 Decentralized, Rooftop Units:**

**23 40 13.13.A. Standard filter section**

1. Shall consist of factory-installed, low velocity, throwaway 1-in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be accessible through an access panel as described in the unit cabinet section of the specification (23 81 19.13.H).
5. Filter rack will also accept 2-in thick fiberglass filters of commercially available sizes by removal of a tab.

**23 81 19 Self-Contained Air Conditioners**

**23 81 19.13 Small-Capacity Self-Contained Air Conditioners**

**23 81 19.13.A. General**

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a hermetic scroll compressor for cooling duty and electric resistance heat for heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
3. Unit shall use environmentally safe, R-410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer’s instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.



- 23 81 19.13.B. Quality Assurance
1. Unit meets ASHRAE 90.1-2010 minimum efficiency requirements.
  2. Unit shall be rated in accordance with AHRI Standards 210/240.
  3. Unit shall be designed to conform to ASHRAE 15-2010.
  4. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
  5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
  6. Unit casing shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
  7. Unit casing shall be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 5000-hour salt spray.
  8. Unit shall be designed in accordance with ISO 9001:2008, and shall be manufactured in a facility registered by ISO 9001:2008.
  9. Roof curb shall be designed to conform to NRCA Standards.
  10. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
  11. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
  12. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
- 23 81 19.13.C. Delivery, Storage, and Handling
1. Unit shall be stored and handled per manufacturer's recommendations.
  2. Lifted by crane requires either shipping top panel or spreader bars.
  3. Unit shall only be stored or positioned in the upright position.
- 23 81 19.13.E. Project Conditions
1. As specified in the contract.
- 23 81 19.13.F. Operating Characteristics
1. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 at ± 10% voltage.
  2. Compressor with standard controls shall be capable of operation down to 40°F (4°C), ambient outdoor temperatures. Accessory low ambient kit is necessary if mechanically cooling at ambient temperatures below 40°F (4°C).
  3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
  4. Unit shall be factory configured for vertical supply & return configurations.
  5. Unit shall be field convertible from vertical to horizontal configuration.
- 23 81 19.13.G. Electrical Requirements
1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.
- 23 81 19.13.H. Unit Cabinet
1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a baked enamel finish on all externally exposed surfaces.
  2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003 inches minimum, gloss (per ASTM D523, 60°F / 16°C): 60, Hardness: H-2H Pencil hardness.
  3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 3/4-in. thick, 1 lb. density, flexible fiberglass insulation, aluminum foil-face coated on the air side.
  4. Base of unit shall have locations for thru-the-base electrical connections (factory installed or field installed), standard.
  5. Base Rail
    - a. Unit shall have base rails on all sides.
    - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
    - c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
    - d. Base rail shall be a minimum of 14 gauge thickness.
  6. Condensate pan and connections:
    - a. Shall be a condensate drain pan made of a non-corrosive material. Unit must be installed at a slight angle to allow for complete drainage.
    - b. Shall comply with ASHRAE Standard 62.
    - c. Shall use a 3/4" x 14 NPT drain connection through the side of the drain pan. Connection shall be made per manufacturer's recommendations.
  7. Electrical Connections
    - a. All unit power wiring shall enter unit cabinet at a single, factory-prepared, knockout location.
    - b. Thru-the-base capability
      - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
      - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
  8. Component access panels (standard)
    - a. Cabinet panels shall be easily removable for servicing.

### 23 81 19.13.J. Coils

1. Aluminum MicroChannel evaporator and condenser coils on all models.
  - a. Shall have aluminum lanced fins thermally bonded to aluminum multi-port flat tube design (microchannel) tubes. Coils shall be furnace brazed and contain epoxy lined shrink wrap on all aluminum to copper connections.
  - b. Shall be leak tested using helium mass spectrometry. The leak rate shall not exceed  $6.5 \times 10^{-5}$  sccs of 100% helium at 200 psig, and qualified to UL 1995 burst test at 1950 psig.
  - c. Evaporator coil includes internal distributor plate to prevent mal-distribution of two-phase refrigerant.

### 23 81 19.13.K. Refrigerant Components

1. Refrigerant circuit shall include the following control, safety, and maintenance features:
  - a. Thermal Expansion Valves (TXV).
  - b. Refrigerant filter drier.
  - c. Service gauge connections on suction and liquid lines.
  - d. External pressure gauge ports access shall be located in front exterior of cabinet.
2. Compressors
  - a. Unit shall use one fully hermetic, scroll compressor.
  - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
  - c. Compressors shall be internally protected from high discharge temperature conditions.
  - d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
  - e. Compressor shall be factory mounted on rubber grommets.
  - f. Compressor motors shall have internal line break thermal and current overload protection along with high pressure differential protection.
  - g. Crankcase heaters shall not be required for normal operating range.

### 23 81 19.13.L. Filter Section

1. Filters access is specified in the unit cabinet section of this specification.
2. Shall consist of factory-installed, low velocity, throw-away 1-in. thick fiberglass filters.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be standard, commercially available sizes.
5. Only one size filter per unit is allowed.
6. Filter rack will also accept 2-in thick fiberglass filters of commercially available sizes by removal of a tab.

### 23 81 19.13.M. Evaporator Fan and Motor

1. Evaporator fan motor:
  - a. Shall have permanently lubricated bearings.
  - b. Shall have inherent automatic-reset thermal overload protection.
  - c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
2. Belt-driven Evaporator Fan:
  - a. Belt drive shall include an adjustable-pitch motor pulley.
  - b. Shall use sealed, permanently lubricated ball-bearing type.
  - c. Blower fan shall be double-inlet type with forward-curved blades.
  - d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.
3. High-Static Belt-driven Evaporator Fan Motor(s) and Drive(s):
  - a. High-static motor(s) and drive(s) shall be factory-installed to provide additional performance range.

### 23 81 19.13.N. Condenser Fans and Motors

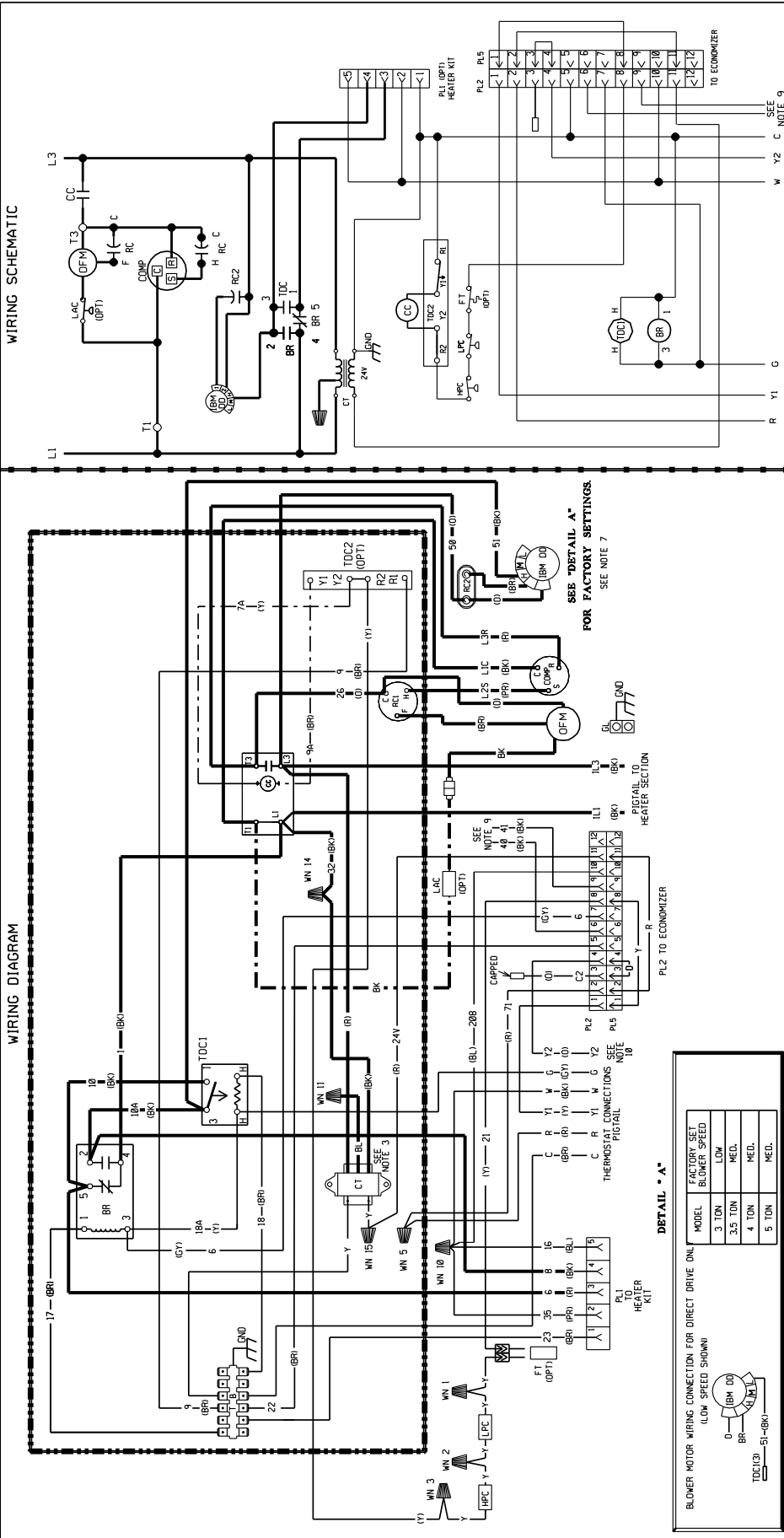
1. Condenser fan motors:
  - a. Shall be a totally enclosed motor.
  - b. Shall use permanently lubricated bearings.
  - c. Shall have inherent thermal overload protection with an automatic reset feature.
  - d. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.
2. Condenser Fans shall:
  - a. Shall be a direct-driven propeller type fan
  - b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

### 23 81 19.13.O. Special Features

1. Integrated Economizers:
  - a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
  - b. Module designed for vertical or horizontal return configurations. Vertical return configuration shall be available as a factory installed option.

- c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
  - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
  - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
  - f. Shall be capable of introducing up to 100% outdoor air.
  - g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air. The barometric relief damper shall include seals, hardware and hoods to relieve building pressure. Damper shall gravity close upon unit shut down.
  - h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
  - i. An outdoor single-enthalpy sensor shall be provided as standard. Outdoor air enthalpy set point shall be adjustable and shall range from the enthalpy equivalent of 59.2°F @ 50% rh to 74.8°F @ 50% rh. Additional sensor options shall be available as accessories.
  - j. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 50%, with a range of 0% to 100%.
  - k. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
  - l. Economizer controller shall accept a 2-10Vdc CO<sub>2</sub> sensor input over a CO<sub>2</sub> range of 0-2000 ppm for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
  - m. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
  - n. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
  - o. Equipped with 3<sup>rd</sup> party certified low leakage dampers with maximum damper leakage rate to be equal to or less than 4.0 cfm/sq. ft. at 1.0 in. w.g., meeting or exceeding ASHRAE 90.1 requirements.
  - p. Economizer controller on electromechanical units shall be Honeywell W7220 that provides:
    - i. 2-line LCD interface screen for setup, configuration and troubleshooting
    - ii. Onboard fault detection and diagnostics
    - iii. Sensor failure loss of communication identification
    - iv. Automatic sensor detection
    - v. Utilize digital sensors: Dry bulb and Enthalpy
    - vi. Adjustable Compressor lockout setpoint shall open at 35°F and close at 50°F.
2. Two-Position Damper
- a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
  - b. Damper shall include adjustable damper travel from 25% to 100% (full open).
  - c. Damper shall include single or dual blade, gear driven damper and actuator motor.
  - d. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
  - e. Damper will admit up to 100% outdoor air for applicable rooftop units.
  - f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
  - g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
  - h. Outside air hood shall include aluminum water entrainment filter.
3. Manual damper
- a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year round ventilation.
4. Head Pressure Control Package
- a. Controller shall control coil head pressure by condenser-fan cycling.
5. Condenser Coil Hail Guard Assembly
- a. Shall protect against damage from hail.
  - b. Shall be louvered design.
6. Thru-the-Base Connectors:
- a. Kits shall provide connectors to permit electrical connections to be brought to the unit through the unit basepan.
7. Propeller Power Exhaust:
- a. Power exhaust shall be used in conjunction with an integrated economizer.
  - b. Independent modules for vertical or horizontal return configurations shall be available.
  - c. Horizontal power exhaust shall be mounted in return ductwork.
  - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
8. Roof Curbs (Vertical):

- a. Full perimeter roof curb with exhaust capability providing separate airstreams for energy recovery from the exhaust air without supply air contamination.
  - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
  - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
9. Outdoor Air Enthalpy Sensor:
- a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
10. Return Air Enthalpy Sensor:
- a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
11. Indoor Air Quality (CO<sub>2</sub>) Sensor:
- a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
  - b. The IAQ sensor shall be available in wall mount with LED display. The set point shall have adjustment capability.
  - c. The sensor shall provide a 2-10Vdc output for a CO<sub>2</sub> input range of 0-2000 ppm.
12. Smoke detectors:
- a. Shall be a Four-Wire Controller and Detector.
  - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
  - c. Shall use magnet-activated test/reset sensor switches.
  - d. Shall have a recessed momentary switch for testing and resetting the detector.
  - e. Controller shall include:
    - i. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
    - ii. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
    - iii. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
    - iv. Capable of direct connection to two individual detector modules.
    - v. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
13. Non-Powered convenience outlet.
- a. Outlet shall be powered from a separate 115-120v power source.
  - b. A transformer shall not be included.
  - c. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
  - d. Outlet shall include 15 amp GFI receptacle.
  - e. Outlet shall be accessible from outside the unit.
14. Electric Heat:
- a. Heating Section
    - i. Heater element open coil resistance wire, nickel-chrome alloy, strung through ceramic insulators mounted on metal frame. Coil ends are staked and welded to terminal screw slots.
    - ii. Heater assemblies are provided with integral fusing for protection of internal heater circuits not exceeding 48 amps each. Auto reset thermo limit controls, magnetic heater contactors (24 v coil) and terminal block all mounted in electric heater control box (minimum 18 ga galvanized steel) attached to end of heater assembly.



**WIRING SCHEMATIC**

L1 L2 L3

CC

DFM

LAC (OPT)

F RC

COMP

H RC

RC2

BR 1

2

3

4 BR 5

TOC

24V

CT

PL (OPT) HEATER KIT

PL2 PL5

TO ECONOMIZER

SEE NOTE 9

W Y2 C

**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.

**NOTES:**

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. ALL ELECTRICAL CONNECTIONS MUST BE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS: RED-COM, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS ON VOLT OPERATION. INTERCHANGE BLACK & BLUE LEADS FOR 208 VOLT OPERATION.
- CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED LUG. CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V/50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ.
- MOTOR FACTORY WIRED FOR CORRECT SPEED.
- SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION. IS & 9/0 TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

**COMPONENT CODE**

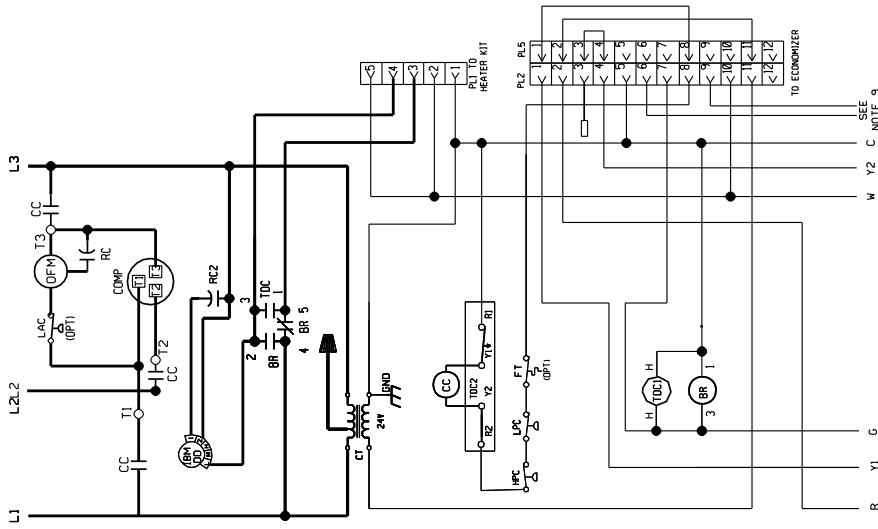
MODEL	FACTORY SET BLOWER SPEED
3 TON	LOW
3.5 TON	MED.
4 TON	MED.
5 TON	MED.

BLOWER RELAY  
 COMPRESSOR CONTACTOR  
 COMPRESSOR  
 CONTROL TRANSFORMER  
 FAN MOTOR  
 GROUND LUG  
 GROUND  
 HPC HIGH PRESSURE CONTROL  
 IPRBD INDOOR BLOWER MOTOR BELT DRIVE  
 LAC LOW AMBIENT COOLING CONTROL  
 LDC LOW PRESSURE COOLING CONTROL  
 LFC LOW PRESSURE CONTROL  
 LHC LOW PRESSURE CONTROL  
 LDC13 OUTDOOR FAN MOTOR  
 PLUG CAPACITOR  
 PLS TERMINAL BLOCK (LOW VOLTAGE)  
 TDC TIME DELAY CONTROL  
 WN WIRE NUT

DR. BY APP. BY DATE DWG. NO. REV

MCR 2-11-13 90-23597-29 01

WIRING SCHEMATIC



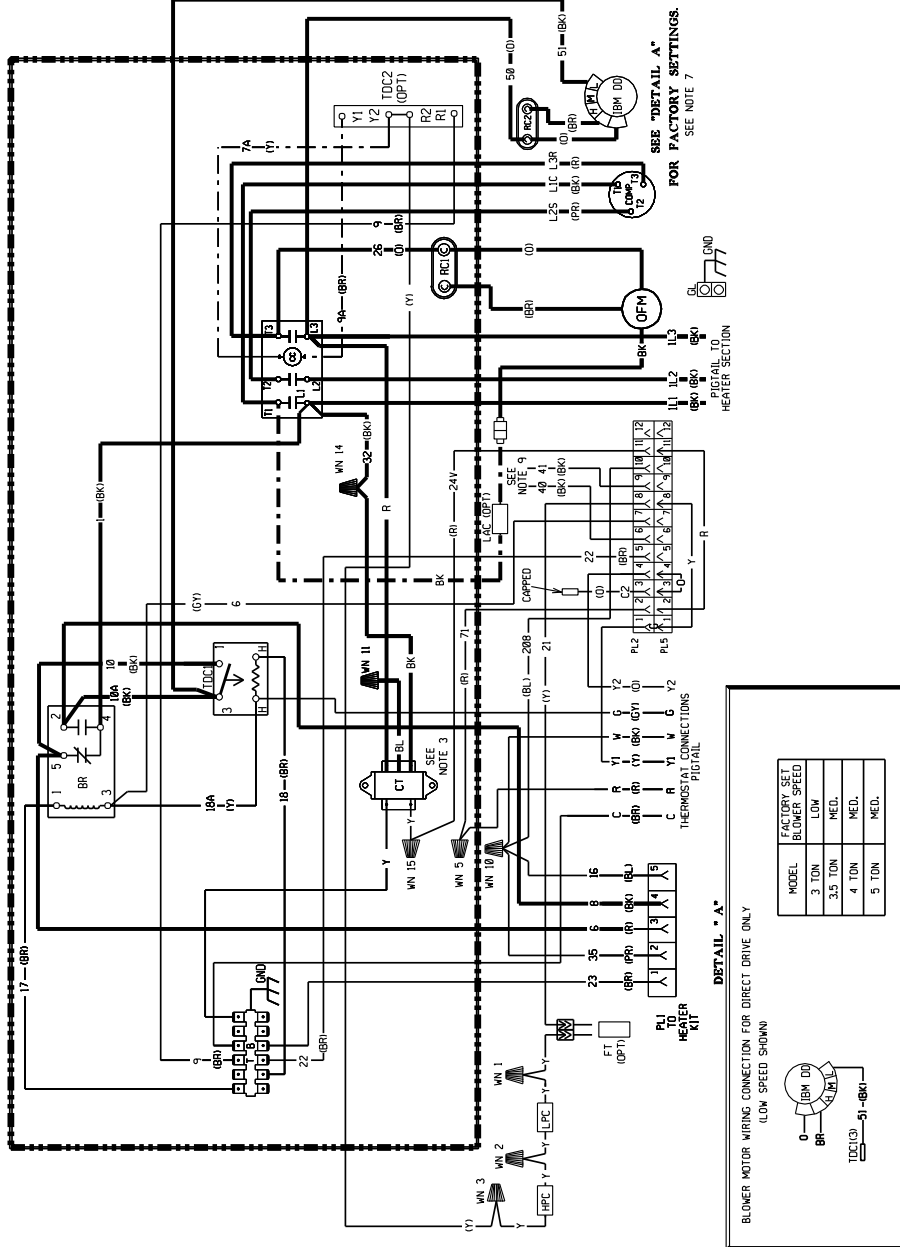
**WIRE COLOR CODE**

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, 3 PHASE  
DIRECT DRIVE  
PACKAGE AIR CONDITIONER

DR. BY: MGR  
APP. BY: DATE: 2-11-13  
DWG. NO.: 90-23597-26  
REV: 01

WIRING DIAGRAM



**WIRING INFORMATION**

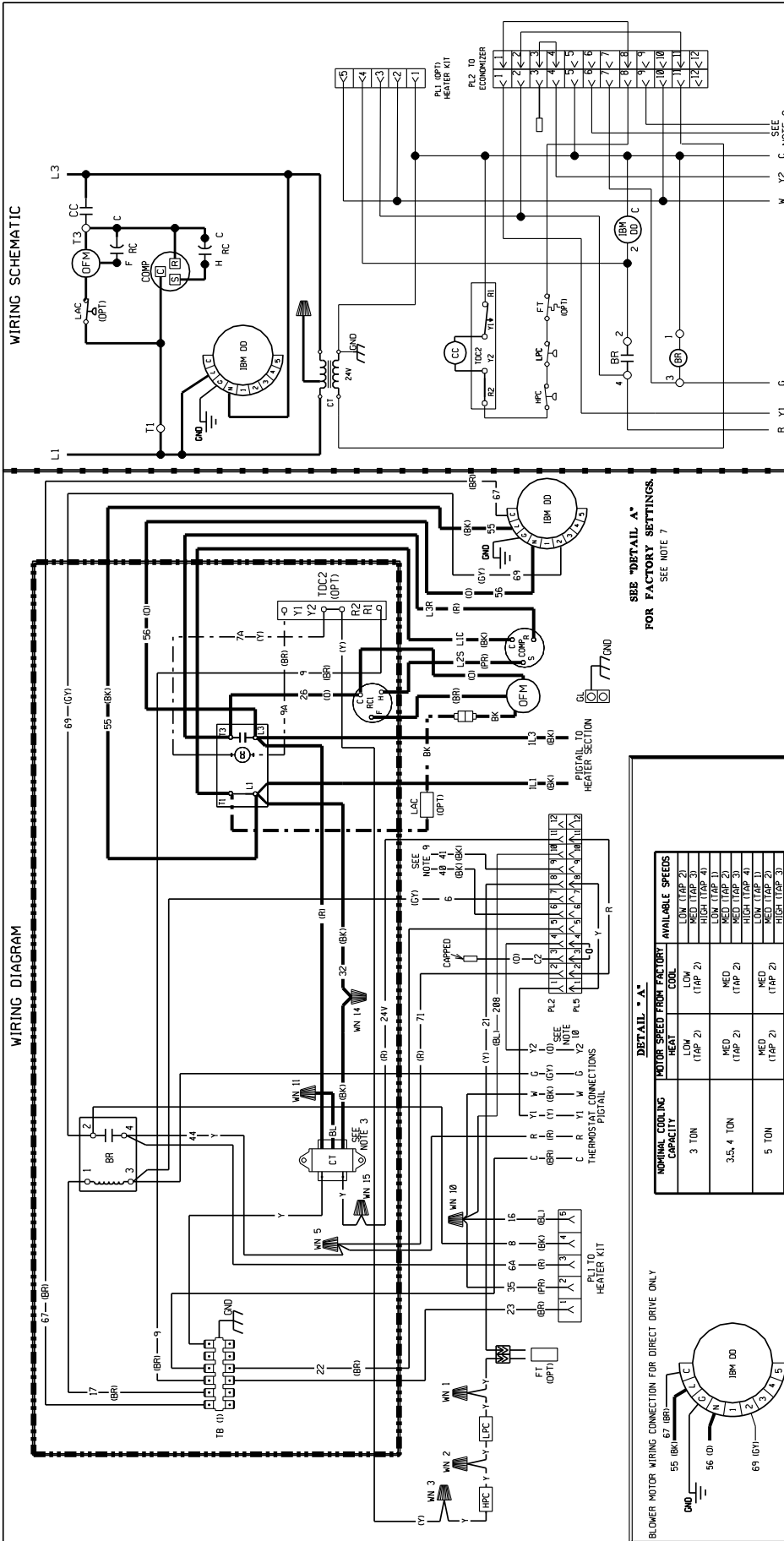
- LINE VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED
- LOW VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED
- REPLACEMENT WIRE
- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C. MIN.)
- WARNING
- CABINET MUST BE CONFORMANT TO I.E.C., N.E.C., GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

**NOTES:**

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED, ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- FOR 208V/230V TRANSFORMER FACTORY WIRE FOR 230V/208V/230V/208V MODELS, INTERCHANGE BLACK & BLUE LEADS FOR 208V/230V OPERATION.
- SUPPLIED PICHTAIL WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED PICHTAIL.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V/50/60 HZ SUPPLIED.
- FIELD WIRING IN GROUNDED MAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
- MOTOR FACTORY WIRE FOR CORRECT SPEED.
- FIELD WIRING IN GROUNDED MAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
- WIRE FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

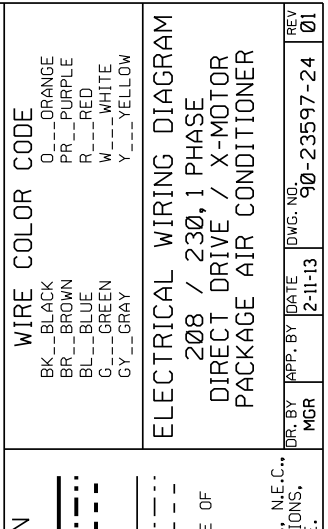
**COMPONENT CODE**

BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
COMP	COMPRESSOR MOTOR
CT	CONTROL TRANSFORMER
FT	FREIZE STAT
GL	GROUND LUG
GND	GROUND
IND	INDICATOR LIGHT
INDMD	INDICATED DRAFT MOTOR DIRECT DRIVE
LAC	LOW AMBIENT DRAFT MOTOR DIRECT DRIVE
LPC	LOW PRESSURE CONTROL
OPM	OUTDOOR FAN MOTOR
PL	PICTAIL
PLC	PLUG CAPACITOR
PL2	TERMINAL BLOCK (LOW VOLTAGE)
TB	TIME DELAY CONTROL
WN	WIRE NUT



WIRING SCHEMATIC

WIRING DIAGRAM



**WIRE COLOR CODE**  
 BK \_\_\_BLACK  
 BR \_\_\_BROWN  
 BL \_\_\_BLUE  
 G \_\_\_GREEN  
 CY \_\_\_GRAY  
 O \_\_\_ORANGE  
 PR \_\_\_PURPLE  
 R \_\_\_RED  
 W \_\_\_WHITE  
 Y \_\_\_YELLOW

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

**WIRING INFORMATION**

**LINE VOLTAGE**  
 -FACTORY STANDARD  
 -FIELD INSTALLED

**LOW VOLTAGE**  
 -FACTORY STANDARD  
 -FIELD INSTALLED

**REPLACEMENT WIRE**  
 -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (1095 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.

**COMPONENT CODE**

BR BLOWER RELAY  
 CC COMPRESSOR CONTACTOR  
 COMP COMPRESSOR TRANSFORMER  
 FT FREEZE STAT  
 GND GROUND  
 LAC LOW AMBIENT COOLING CONTROL  
 LFC LOW PRESSURE CONTROL  
 LMC OUTDOOR FAN MOTOR  
 LNC PLUG CAPACITOR  
 LPLC TERMINAL BLOCK (LOW VOLTAGE)  
 LPLN TIME DELAY CONTROL  
 LPLR WIRE NUT

**NOTES:**

1. CONTACTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. COMPRESSOR MOTOR TERMINALS PROTECTED BY ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY LEADS. RED-COM, BLUE-208V, BLACK-230V. INTERCHANGE BLACK & BLUE LEADS FOR 208 VOLT OPERATION.
2. CONTACTOR FACTORY WIRING. CONNECT FIELD WIRE TO FACTORY LOW VOLTAGE CIRCUIT IS M.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V/50/60 HZ SUPPLIED.
3. FURNISH FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ.
4. MOTOR FACTORY WIRING FOR CORRECT SPEED.
5. SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND WIRE GAUGE.
6. WIRES FROM PL2 (6, 8, 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
7. WIRES FROM PL2 (6, 8, 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
8. WIRES FROM PL2 (6, 8, 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
9. WIRES FROM PL2 (6, 8, 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. WIRES FROM PL2 (6, 8, 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.

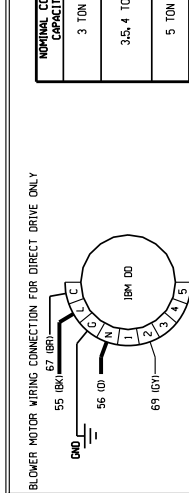
DR. BY APP. BY DATE DWG. NO. 90-23597-24  
 MGR 2-11-13

REV 01

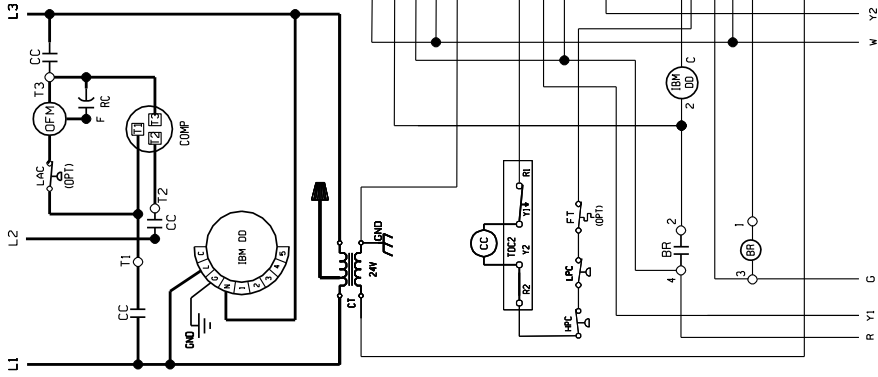
**SEE "DETAIL A" FOR FACTORY SETTINGS**  
 SEE NOTE 7

**DETAIL "A"**

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



WIRING SCHEMATIC



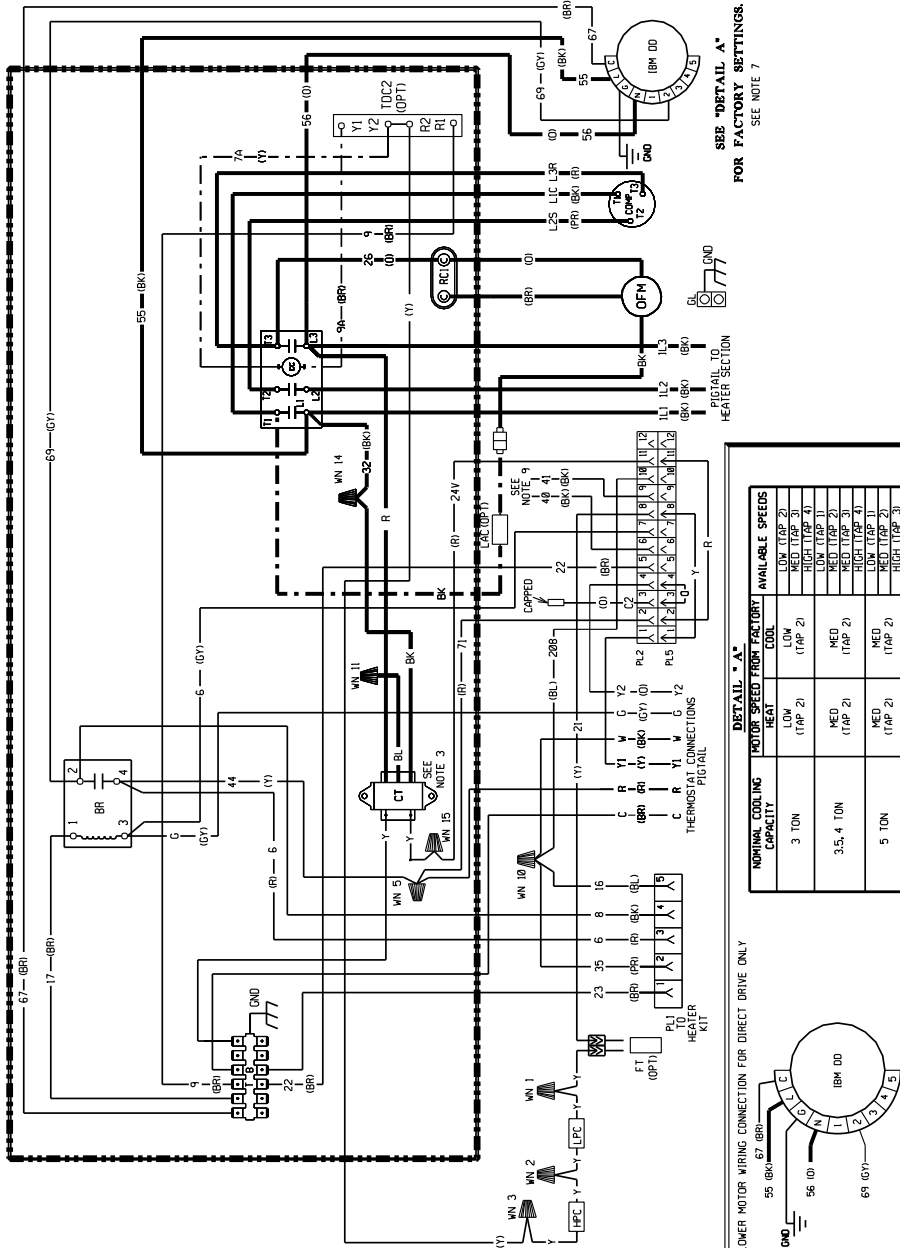
WIRE COLOR CODE

BK_	BLACK
BR_	BROWN
BL_	BLUE
R_	RED
W_	WHITE
GY_	GRAY
Y_	YELLOW
O_	ORANGE
PR_	PURPLE

ELECTRICAL WIRING DIAGRAM  
208 / 230 / 460V, 3 PHASE  
DIRECT DRIVE/X-MOTOR  
PACKAGE AIR CONDITIONER

DR. BY	MGR	DATE	2-11-13	DWG. NO.	90-23597-25	REV.	01
--------	-----	------	---------	----------	-------------	------	----

WIRING DIAGRAM



DETAIL "A" \*  
BLOWER MOTOR WIRING CONNECTION FOR DIRECT DRIVE ONLY

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

NOTES:

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- ALL ELECTRICAL CONNECTIONS MUST BE MADE UNDER DRY CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS:  
SPLIT PHASE: BLACK-208V, BLACK-230V, BLACK/RED-480V.  
BLACK/BLUE-575V, TRANSFORMER FACTORY WIRED FOR 230V.  
FOR 575 VOLT OPERATION, BLACK/BLUE LEADS MUST BE INTERCHANGED TO 575 VOLT MODELS FACTORY WIRED FOR CORRECT VOLTAGE.
- 208/230V COMMON BLUE-208V, BLACK-AUX.
- CONTACTOR FACTORY WIRED, CONNECT FIELD WIRE TO FACTORY SUPPLIED PIGTAIL.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 CONTROL TRANSFORMER.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 Hz FUSED DISCONNECT.
- FIELD WIRE MUST BE WIRING FOR CORRECT SPEED.
- SEE FIELD WIRE WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 Hz CLASSIFICATION.
- WIRES FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

COMPONENT CODE

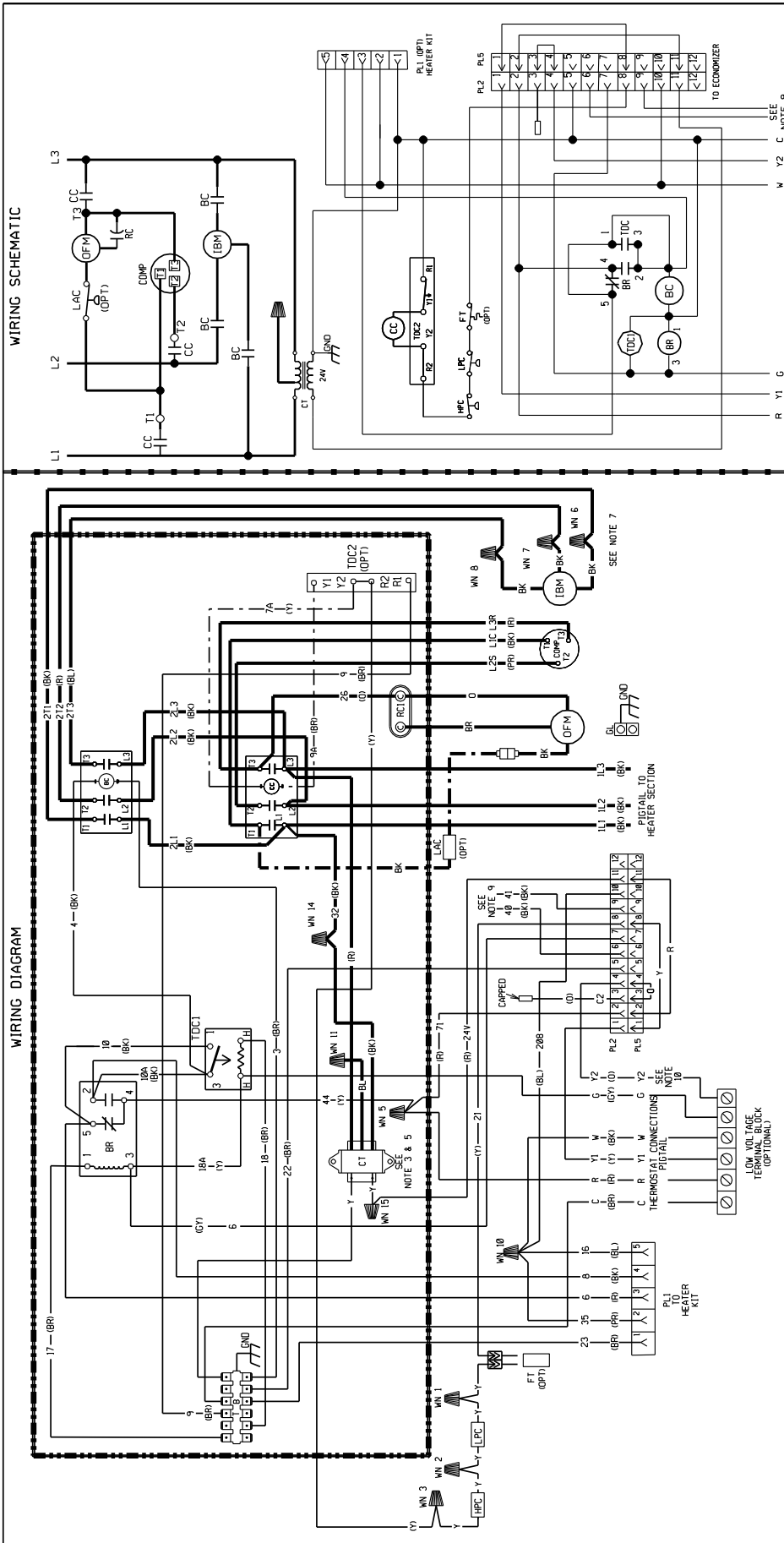
- BR BLOWER RELAY
- CC CONTACTOR
- COMP COMPRESSOR
- CT CONTROL TRANSFORMER
- FS FREEZE STAT
- GL GROUND LUG
- HPC HIGH PRESSURE CONTROL
- IBMDD INDOOR BLOWER MOTOR DIRECT DRIVE
- LAC LOW AMBIENT COOLING CONTROL
- LPC LOW PRESSURE CONTROL
- OPM OUTDOOR FAN MOTOR
- RC RUN CAPACITOR
- TBC TERMINAL BLOCK (LOW VOLTAGE)
- TDC TIME DELAY CONTROL
- WN WIRE NUT

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.

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

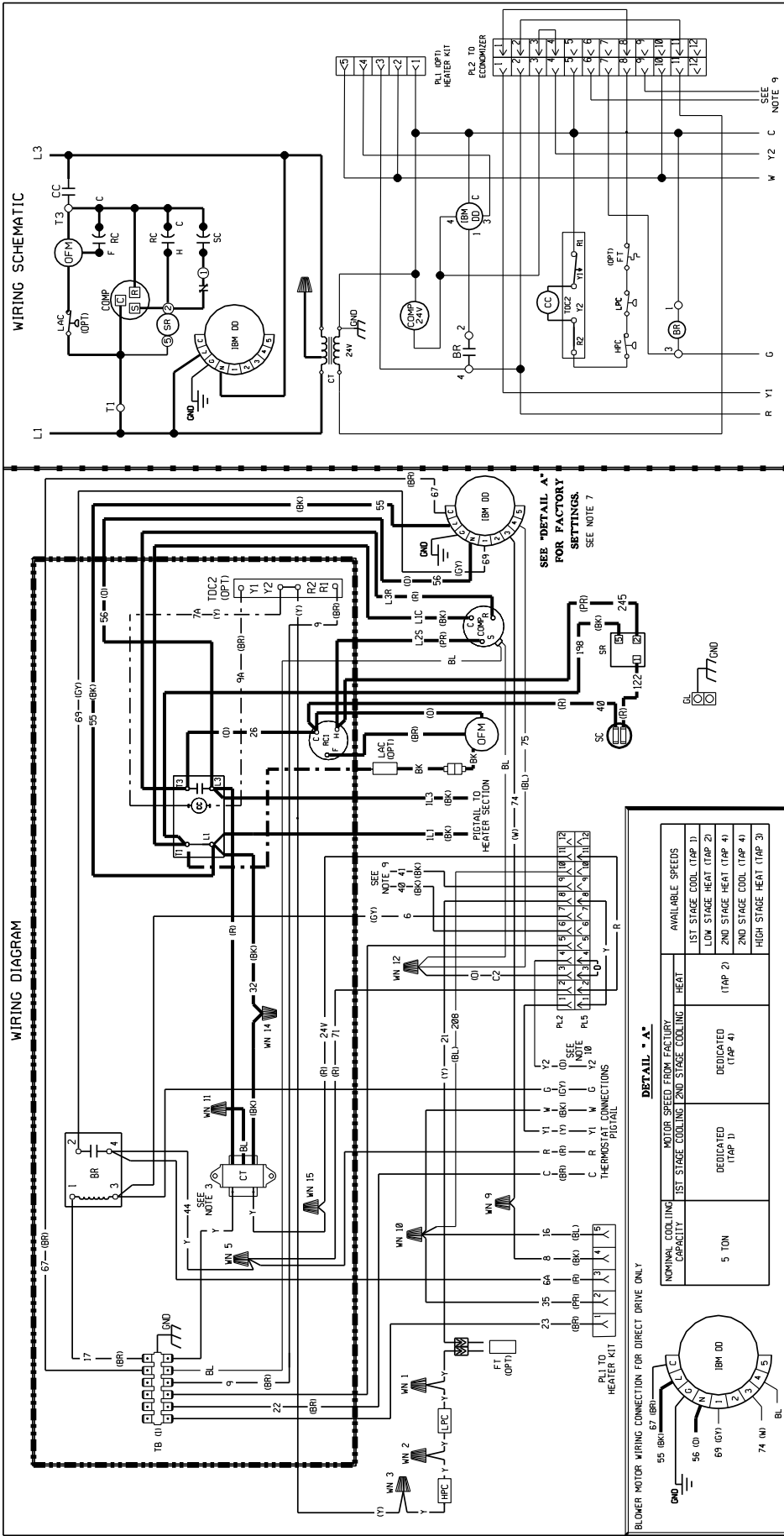




WIRING SCHEMATIC

WIRING DIAGRAM

<p><b>COMPONENT CODE</b></p> <p>BL BLOWER MOTOR BR BLOWER MOTOR BELT DRIVE CC COMPRESSOR CONTACTOR CCT CONTROL TRANSFORMER CT FREEZE STAT DL GROUND LUG GND GROUND IBM60 INDOOR BLOWER MOTOR LAC LOW AMBIENT COOLING CONTROL LPC LOW AMBIENT COOLING CONTROL DFM OUTDOOR FAN MOTOR PE PUMP CAPACITOR TB TERMINAL BLOCK (LOW VOLTAGE) WIRE NUT</p>	<p><b>WIRING INFORMATION</b></p> <p>LINE VOLTAGE -FACTORY STANDARD -FACTORY OPTION -FIELD INSTALLED -FIELD INSTALLED -FACTORY STANDARD -FACTORY OPTION -FIELD INSTALLED -FIELD INSTALLED REPLACEMENT WIRE -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C. MIN.) -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.</p>	<p><b>NOTES:</b></p> <p>1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS. 2. 60 HZ. TRANSFORMER PRIMARY LEADS 3. REC-COM, BLUE-208V. BLACK-230V, BLACK/RED-480V, BLACK/BLUE-575V. TRANSFORMER BLACK &amp; BLUE LEADS FOR 208 VOLT OPERATION. 480 &amp; 575 VOLT MODELS FACTORY WIRED FOR CORRECT VOLTAGE. 4. SUPPLIED COMMON BLUE-380V, BLACK-415V. 5. CONTACTOR FACTORY WIRED, CONNECT FIELD WIRE TO FACTORY SUPPLIED PIGTAIL. IS N.E.C. CLASS 2 WITH A CLASS 2 TERMINAL BLOCK. 24V 30/60 HZ SUPPLIED. 6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT. FUSE FOR CORRECT SPEED. 7. SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION. 8. WIRES FROM P2, P5 &amp; 9 GO TO THE MIXED AIR SENSOR ON THE ECONOMIZER. 9. P2, P5 &amp; 9 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.</p>	<p><b>WIRE COLOR CODE</b></p> <p>BK BLACK BR BROWN BL BLUE G GREEN CY GRAY O ORANGE PR PURPLE R RED W WHITE Y YELLOW</p> <p><b>ELECTRICAL WIRING DIAGRAM</b> 208/230/460/575V, 3 PHASE 60 HZ. BELT DRIVE PACKAGE AIR CONDITIONER</p>	<p>DR. BY: MGR APP. BY: MGR DATE: 2-11-13 DWG. NO.: 90-23597-27 REV: 01</p>
---	--	---	--	---



**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.)  
 -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.

**NOTES:**

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. ALL WIRING MUST BE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS: RED-COM., BLUE-208V., BLACK-230V. TRANSFORMER FACTORY WIRE FOR 230 VOLTS ON VOLT OPERATION. INTERCHANGE BLACK & BLUE LEADS FOR 208 VOLT OPERATION.
- CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V/50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ MOTOR FACTORY WIRED FOR CORRECT SPEED.
- SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION. IS & 91 GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

**COMPONENT CODE**

BR BLOWER RELAY  
 CC COMPRESSOR  
 CT FREZE STAT  
 FT FREZE STAT  
 GND GROUND  
 GND GROUND  
 HPC HIGH PRESSURE CONTROL  
 IBMDD DOOR BLOWER MOTOR DIRECT DRIVE  
 IBMDD DOOR BLOWER MOTOR CONTROL  
 LFC LOW PRESSURE CONTROL  
 LFC LOW PRESSURE CONTROL  
 ODM OUTDOOR FAN MOTOR  
 PL PLUG  
 RC RUN CAPACITOR  
 RCL RUN CAPACITOR  
 SR START RELAY  
 TB TERMINAL BLOCK (LOW VOLTAGE)  
 TDC TIME DELAY CONTROL  
 WN WIRE NUT

**WIRE COLOR CODE**

BK --- BLACK  
 BR --- BROWN  
 BL --- BLUE  
 G --- GREEN  
 GY --- GRAY  
 O --- ORANGE  
 PR --- PURPLE  
 R --- RED  
 W --- WHITE  
 Y --- YELLOW

**ELECTRICAL WIRING DIAGRAM**

**208 / 230, 1 PHASE**

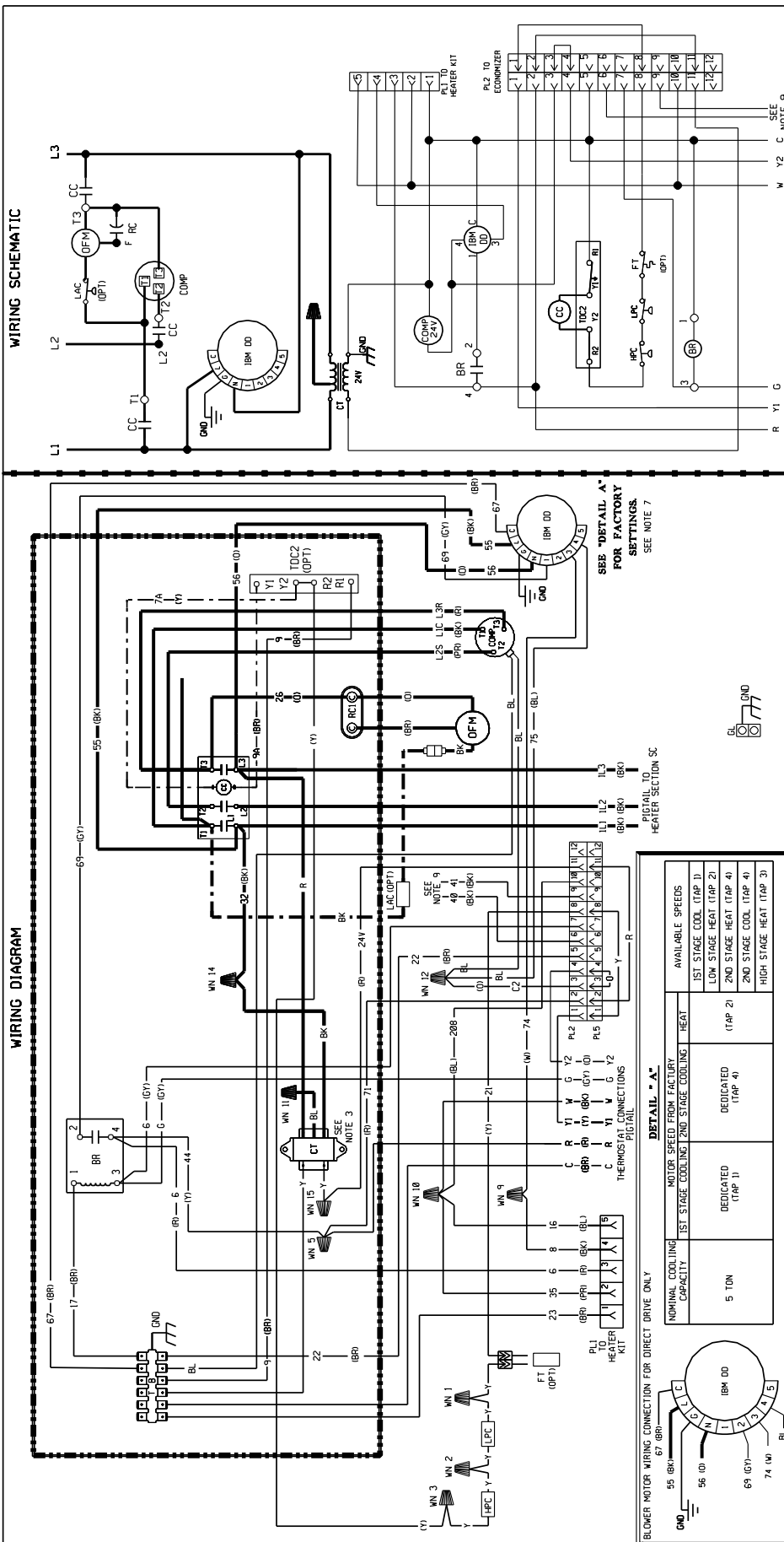
**DIRECT DRIVE / X-MOTOR**

**PACKAGE AIR CONDITIONER**

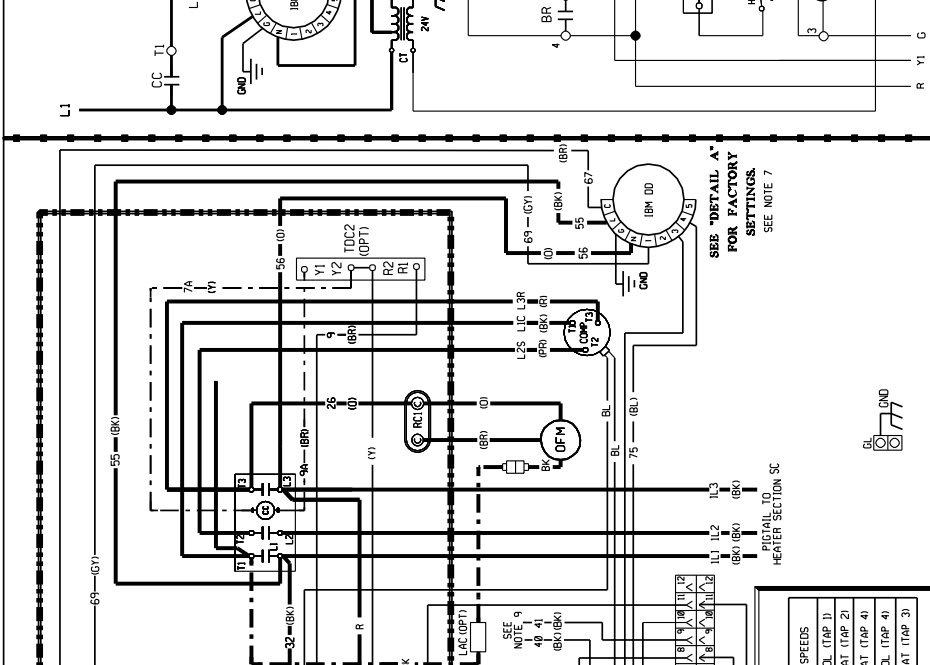
**2-STAGE**

DR. BY APP. BY DATE MCR 2-11-13 DWG. NO. 90-23597-30 REV 01

WIRING DIAGRAM



WIRING SCHEMATIC



COMPONENT CODE

- BR BLOWER RELAY
- CC COMPRESSOR CONTACTOR
- CT CONTROL TRANSFORMER
- FT FREEZE STAT
- GL GROUND LUG
- GN0 GROUND
- IBK00 INDOOR BLOWER MOTOR DIRECT DRIVE
- IBK00 LOW AMBIENT CONTROL
- LPC OUTDOOR FAN MOTOR
- LP00 LINE VOLTAGE PROTECT
- PC PULSED CURRENT CAPACITOR
- TB TERMINAL BLOCK (LOW VOLTAGE)
- WRE WIRE NUT

NOTES:

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. UNIT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.
3. CONTROL TRANSFORMER PRIMARY LEADS: 50 HZ: BLACK-BLUE-208V, BLACK-230V, BLACK/RED-480V. BLACK/BLUE-575V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. ON 'J' & 'C' MODELS, INTERCHANGE BLACK & BLUE LEADS WIRED FOR CORRECT VOLTAGE.
4. ORANGE COMMON BLUE-580V, BLACK-415V. SUPPLIED PIGTAIL.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 FUSED DISCONNECT.
6. CONNECT FIELD WIRING IN GROUNDING RAIN TIGHT CONDUIT TO 60 HZ.
7. MOTOR FACTORY WIRED FOR CORRECT SPEED.
8. CLASSIFICATION ON UNIT FUSE BOX FOR FUSE SIZING AND OPTIONAL ECONOMIZER.
9. WIRE 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.

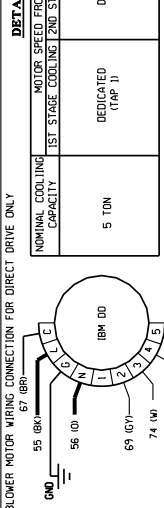
WIRE COLOR CODE

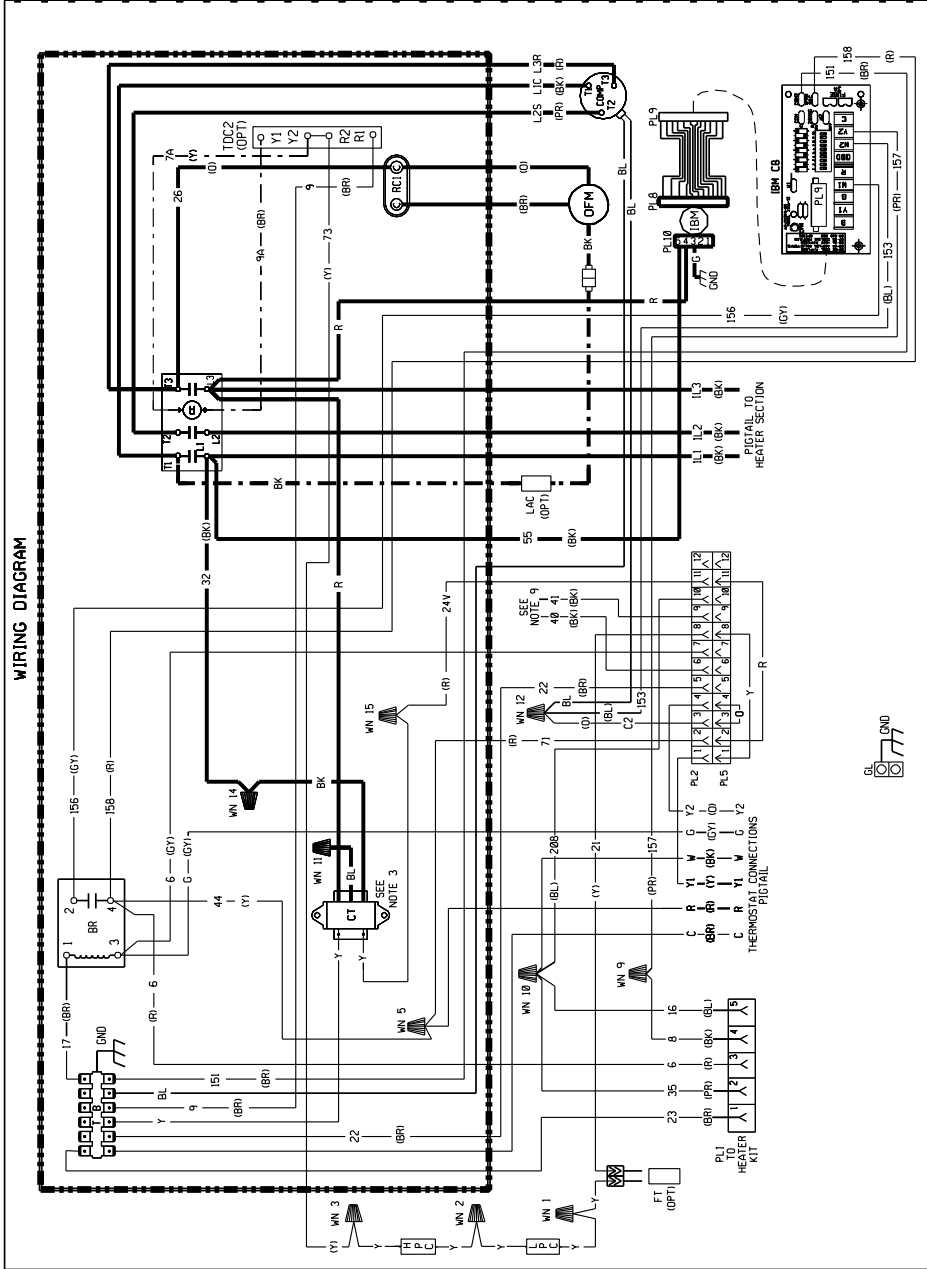
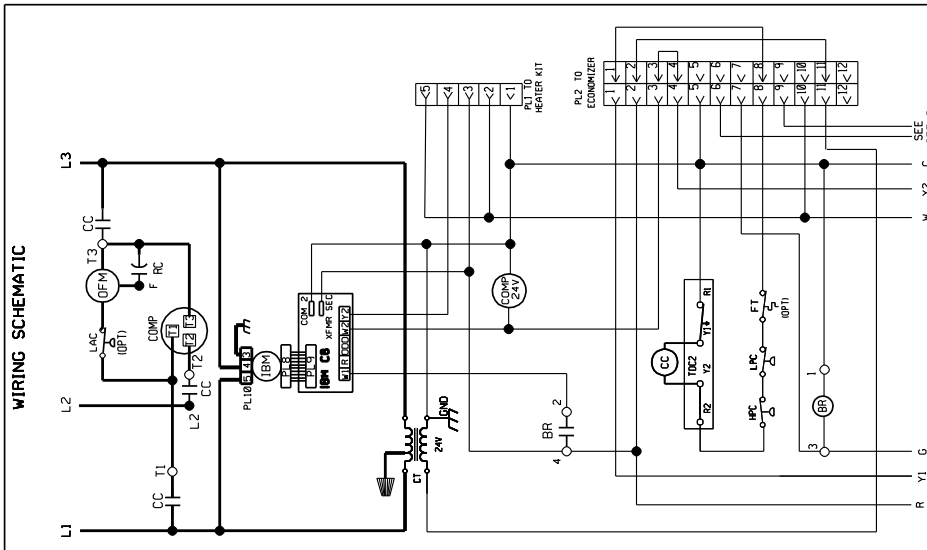
- BK. BLACK O. ORANGE
- BR. BROWN PR. PURPLE
- BL. BLUE R. RED
- G. GREEN W. WHITE
- GY. GRAY Y. YELLOW

ELECTRICAL WIRING DIAGRAM  
208 / 230 / 460V, 3 PHASE  
DIRECT DRIVE/X-MOTOR  
PACKAGE AIR CONDITIONER  
2-STAGE

DR. BY	APP. BY	DATE	DWG. NO.	REV.
MGR		3-28-13	90-23597-31	01

DETAIL * A *		
NOMINAL COOLING CAPACITY	MOTOR SPEED FROM FACTORY	AVAILABLE SPEEDS
5 TON	1ST STAGE COOLING 2ND STAGE COOLING HEAT	1ST STAGE COOL (TAP 1)
		2ND STAGE COOL (TAP 2)
		2ND STAGE HEAT (TAP 4)
		HIGH STAGE HEAT (TAP 3)





**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 / 230V, 3 PHASE  
 CV DRIVE / ECON-MOTOR  
 PACKAGE AIR CONDITIONER  
 2-STAGE

**WIRING INFORMATION**

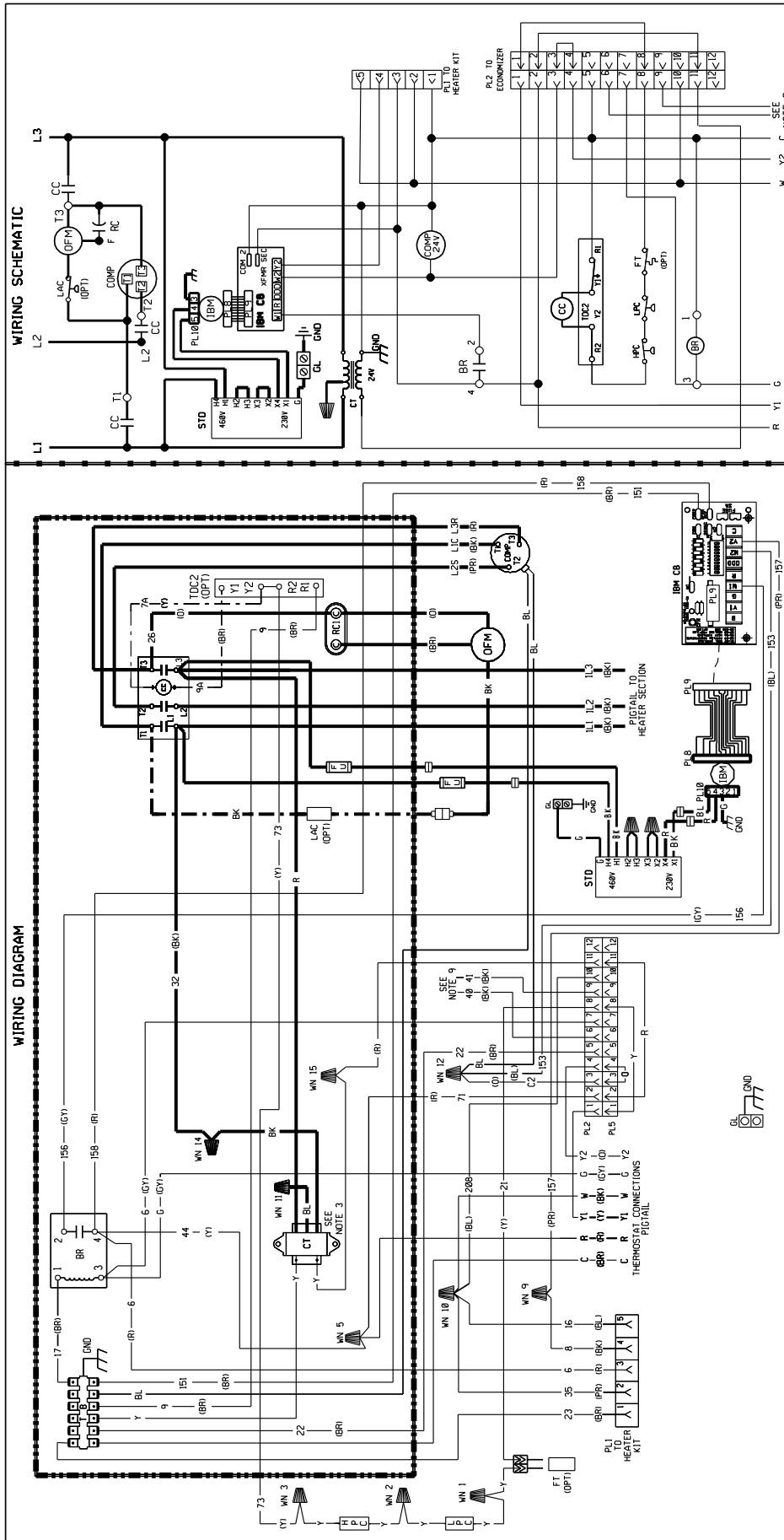
- LINE VOLTAGE STANDARD
- FACTORY OPTION
- FIELD INSTALLED
- LOW VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED
- REPLACEMENT WIRE
- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C.MIN)
- CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

- NOTES:**
1. COMPRESSORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. COMPRESSOR WIRING SHALL BE PROTECTED AS PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
  2. CONTROL TRANSFORMER PRIMARY LEADS:
  3. RED/COMMON, BLUE-208V, BLACK-230V, BLACK/RED-480V, BLACK/BLUE-575V. TRANSFORMER FACTORY WIRE FOR 230 BLACK/BLUE-575V. OPERATIONAL VOLTAGE IS 208V. FACTORY WIRE FOR 480 & 575 VOLTS MODELS FACTORY WIRE FOR CORRECT VOLTAGE.
  4. TRANSFORMER COMMON BLUE-380V, BLACK-415V.
  5. CONTRACTOR FACTORY WIRE TO FACTORY SUPPLIED PIGTAIL.
  6. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 FUSED DISCONNECT LEAD FOR CORRECT SPEED.
  7. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ.
  8. SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION.
  9. WIRES FROM PL 2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.

**COMPONENT CODE**

BR	BLOWER RELAY	IBM	INDOOR BLOWER MOTOR
CC	COMPRESSOR	IBM CB	INDOOR BLOWER MOTOR CONTROL BOARD
COMP	COMPRESSOR	LAC	LOW AMBIENT COOLING CONTROL
CT	CONTROL TRANSFORMER	OPM	OUTDOOR FAN MOTOR
DL	FREEZE STAT	PL	PLUG
FC	GROUND LUG	PLC	INDOOR FAN MOTOR
FM	HIGH PRESSURE CONTROL	RC	RUN CAPACITOR
HPC	INDOOR BLOWER MOTOR CONTROL BOARD	TB	TERMINAL BLOCK (LOW VOLTAGE)
IBM	INDOOR BLOWER MOTOR	UC	LINE DELAY CONTROL
IBM CB	INDOOR BLOWER MOTOR CONTROL BOARD	WN	WIRE NUT
LAC	LOW AMBIENT COOLING CONTROL		
OPM	OUTDOOR FAN MOTOR		
PL	PLUG		
PLC	INDOOR FAN MOTOR		
RC	RUN CAPACITOR		
TB	TERMINAL BLOCK (LOW VOLTAGE)		
UC	LINE DELAY CONTROL		
WN	WIRE NUT		

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR		6-26-13	90-23597-32	01



WIRING SCHEMATIC

WIRING DIAGRAM

**WIRE COLOR CODE**

BK	BLACK
BR	BROWN
BL	BLUE
G	GREEN
GY	GREEN-YELLOW
W	WHITE
Y	YELLOW
O	ORANGE
PR	PURPLE
R	RED

**ELECTRICAL WIRING DIAGRAM**  
460V, 3 PHASE  
CV DRIVE / ECON-MOTOR  
PACKAGE AIR CONDITIONER  
2-STAGE

DR. BY: APP. BY: DATE: 6-26-13 DWG. NO.: 90-23597-33  
MGR: REV: 01

**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.)

**NOTES:**

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED, ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS:
  - RED-10A, BLUE-200V, BLACK-230V, BLACK/RED-460V.
  - BLACK/BLUE-575V, TRANSFORMER FACTORY WIRED FOR 230V BLACK/BLUE-575V OPERATION, 460 & 575 VOLTS MODELS FACTORY WIRED FOR CORRECT VOLTAGE.
- TRANSFORMER COMMON BLUE-380V BLACK-415V.
- CONTRACTOR FACTORY WIRED, CONNECT FIELD WIRE TO FACTORY SUPPLIED PIGTAIL.
- INDOOR BLOWER MOTOR IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER 24V/50/60/4Z SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT USED FOR CORRECT SPEED.
- SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION.
- WIRE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION.
- OPTIONAL ECONOMIZER.

**COMPONENT CODE**

BR	BLOWER RELAY
CC	COMPRESSOR CAPACITOR
CC	COMPRESSOR
CT	CONTROL TRANSFORMER
FT	FREIZE STAT
GL	GROUND LUG
HPC	HIGH PRESSURE CONTROL
IBM CB	INDOOR BLOWER MOTOR CONTROL BOARD
LAC	LOW AMBIENT COOLING CONTROL
PL	PLUG
PL	OUTDOOR FAN MOTOR
RC	RUN CAPACITOR
STD	STEPDOWN TRANSFORMER
TC	TEMPERATURE CONTROL
WN	WIRE NUT

**BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.**

**GENERAL TERMS OF LIMITED WARRANTY\***

Rheem® will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

**\*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

**Conditional Parts (Registration Required)**

1 Phase, Residential Applications .....Ten (10) Years

**Compressor**

1 Phase, Residential Applications .....Ten (10) Years

1 & 3 Phase, Commercial Applications.....Five (5) Years

**Parts**

1 & 3 Phase, Commercial Applications .....One (1) Year





***Russell™ By Rheem***

5600 Old Greenwood Road, Fort Smith, AR 72908

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.