



Russell[™]
By Rheem

MODEL: RKPN/RKQN Package Gas Electric Unit

FORM NO. RRR-866

Russell[™] By Rheem Package Gas Electric Unit



RKPN- 14 SEER
RKQN- 15 SEER

• Nominal Sizes 3-5 Tons [10.6-17.6 kW]



"Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your Contractor for details or visit www.energystar.gov."

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RKPN - A036, A048, A060
RKQN - A036, A048, A060

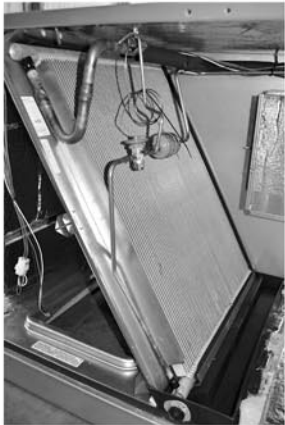
RKPN-/RKQN- STANDARD FEATURES INCLUDE:

- 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 RKQN-A060 two stage Ultra Tech).
- 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 facilitate 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.
- 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.
- Easy to install plug-in; slip in, 100% fully modulating economizer.
- Forkable base rails for easy handling and lifting.
- Single point electrical and gas 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. Will accept 2 inch filter.
- Single stage gas valve, direct spark ignition, and induced draft for efficiency and reliability.
- Improved Gas Heating Efficiency (AFUE: 81%).
- Tubular heat exchange for long life and induced draft for efficiency and reliability.
- Solid state furnace control with on board diagnostics.
- Colored and labeled wiring.
- Molded compressor plug.
- Through the base gas and electric.
- Micro Channel evaporators and condenser delivers superior performance with less refrigerant charge and less weight than conventional copper tube/aluminum fin coils. In addition the all aluminum design has superior formicary corrosion protection and less potential for leaks due to elimination of tube rubbing potential. Its easier to clean and has a more robust surface.

Package Gas Electric Unit Features:

Evaporator Coil/Filter Access

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



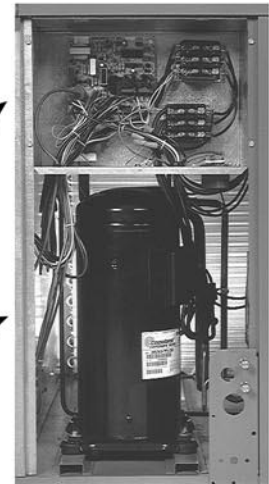
- Non-corrosive plastic condensate pan



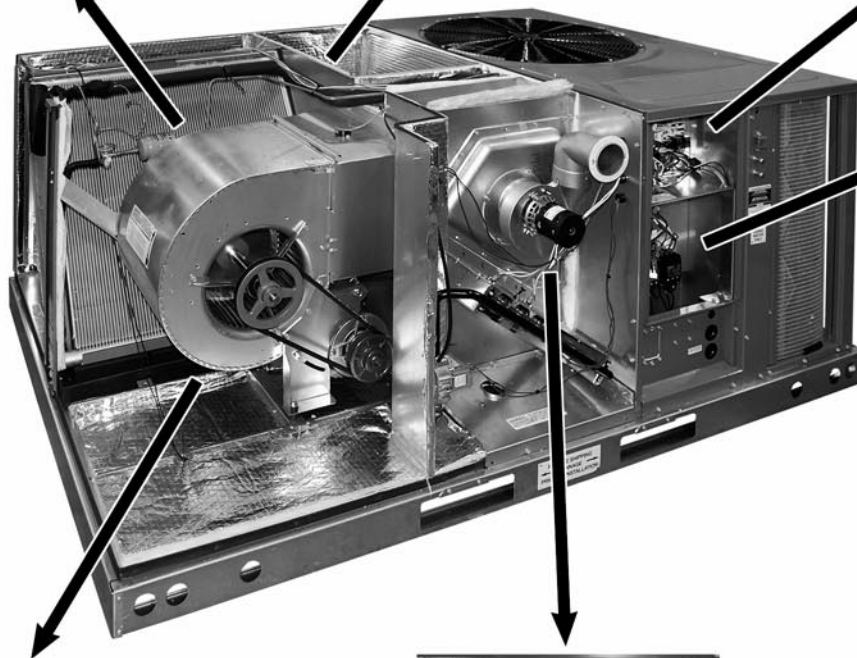
Tubular Heat Exchanger

- Aluminized steel (viewed from supply air side panel.)
- Stainless steel available

Control Box Access



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



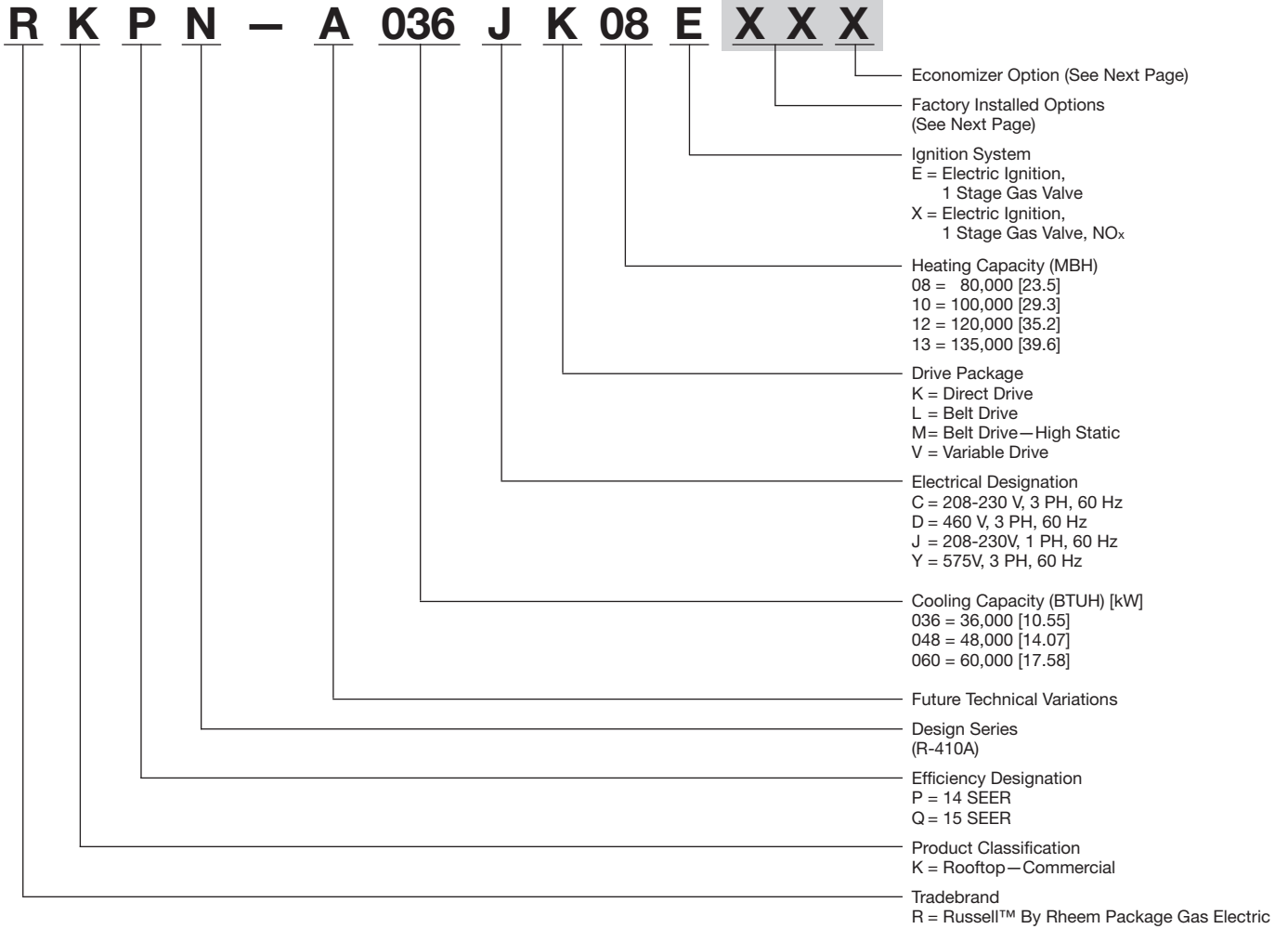
Blower Access

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



Heating Compartment Access

[] Designates Metric Conversions



[] Designates Metric Conversions

FACTORY INSTALLED OPTION CODES FOR RKP/RKQ (3-5 TON) [10.6-17.6 kW] (A036, A048, A060)

| Option Code | Hail Guard | Stainless Steel Heat Exchanger | Non-Powered Convenience Outlet/Unfused Service Disconnect | Low Ambient/Freeze Stat |
|-------------|------------|--------------------------------|---|-------------------------|
| AD | x | | | |
| AJ | | x | | |
| AH | | | x | |
| AP | | | | x |
| BF | x | | x | |
| BG | x | x | | |
| BY | x | | | x |
| JB | | x | x | |
| CR | x | x | | x |
| DN | x | x | x | x |

Economizer Codes

A = No Economizer

F = Economizer with Single Enthalpy

Example: RKP-A060JK13E**XX** (where **XX** is factory installed option)

Example: No Options

RKP-A060JK13E

Example: No option with factory installed economizer

RKP-A060JK13EAAF

Example: Options with stainless steel heat exchanger and no factory installed economizer

RKP-A060JK13EAJA

Example: Options same as above with factory installed economizer

RKP-A060JK13EAJF

ECONOMIZER SELECTION FOR RKP/RKQ (3-5 TON) [10.6-17.6 kW]

| | 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

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

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKP- | A036CK08 | A036CK12 | A036CL08 | A036CL12 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,800 [18.99] | 97,200 [28.48] | 64,800 [18.99] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1 [25] | 1 [25] | 1 [25] | 1 [25] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Multiple | Multiple | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1075 | 1075 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 509 [231] | 519 [236] | 527 [239] | 519 [236] |
| Ship Weight lbs. [kg] | 516 [234] | 527 [239] | 534 [242] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A036CM08 | A036CM12 | A036DK08 | A036DK12 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | |
| CONTINUED → | | | | |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,800 [18.99] | 97,200 [28.48] | 64,800 [18.99] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | | | |
| | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | | | | |
| 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] |
| | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | | | |
| 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] |
| | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | | | | |
| 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 |
| Indoor Fan—Type | | | | |
| 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 | Belt (Adjustable) | Belt (Adjustable) | Direct | Direct |
| No. Motors | Single | Single | Multiple | Multiple |
| Motor HP | 1 | 1 | 1 | 1 |
| Motor RPM | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor Frame Size | 1725 | 1725 | 1075 | 1075 |
| | 48 | 48 | 48 | 48 |
| Filter—Type | | | | |
| 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] |
| Refrigerant Charge Oz. [g] | | | | |
| | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 527 [239] | 519 [236] | 509 [231] | 519 [236] |
| Ship Weight lbs. [kg] | 534 [242] | 527 [239] | 516 [234] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A036DL08 | A036DL12 | A036DM08 | A036DM12 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,800 [18.99] | 97,200 [28.48] | 64,800 [18.99] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1 [25] | 1 [25] | 1 [25] | 1 [25] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Single | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1725 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 527 [239] | 519 [236] | 527 [239] | 519 [236] |
| Ship Weight lbs. [kg] | 534 [242] | 527 [239] | 534 [242] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A036JK08 | A036JK12 | A036YL12 | A036YM12 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 120,000 [35.16] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,000 [18.76] | 97,000 [27.83] | 97,200 [28.48] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 6 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1 [25] | 1 [25] | 1 [25] | 1 [25] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Multiple | Multiple | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 3/4 | 3/4 |
| Motor RPM | 1075 | 1075 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 56 | 56 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 509 [231] | 519 [236] | 519 [236] | 519 [236] |
| Ship Weight lbs. [kg] | 516 [234] | 527 [239] | 527 [239] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKP- | A048CK08 | A048CK10 | A048CK13 | A048CL08 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] | 80,000 [23.44] |
| Heating Output Btu [kW] | 64,800 [18.99] | 81,000 [23.73] | 109,400 [32.05] | 64,800 [18.99] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 5 | 6 | 4 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct | Direct | Belt (Adjustable) |
| No. Speeds | Multiple | Multiple | Multiple | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1075 | 1075 | 1075 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 533 [242] | 538 [244] | 543 [246] | 551 [250] |
| Ship Weight lbs. [kg] | 540 [245] | 545 [247] | 550 [250] | 558 [251] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A048CL10 | A048CL13 | A048CM08 | A048CM10 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] | 80,000 [23.44] | 100,000 [29.3] |
| Heating Output Btu [kW] | 81,000 [23.73] | 109,400 [32.05] | 64,800 [18.99] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 5 | 6 | 4 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Single | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 3/4 | 3/4 |
| Motor RPM | 1725 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 56 | 56 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 556 [252] | 561 [255] | 552 [250] | 557 [253] |
| Ship Weight lbs. [kg] | 563 [255] | 568 [258] | 559 [254] | 564 [256] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKP- | A048CM13 | A048DK08 | A048DK10 | A048DK13 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 109,350 [32.04] | 64,800 [18.99] | 81,000 [23.73] | 109,400 [32.05] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 4 | 5 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Direct | Direct | Direct |
| No. Speeds | Single | Multiple | Multiple | Multiple |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 3/4 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1725 | 1075 | 1075 | 1075 |
| Motor Frame Size | 56 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 562 [255] | 533 [242] | 538 [244] | 543 [246] |
| Ship Weight lbs. [kg] | 569 [258] | 540 [245] | 545 [247] | 550 [250] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A048DL08 | A048DL10 | A048DL13 | A048DM08 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] | 80,000 [23.44] |
| Heating Output Btu [kW] | 64,800 [18.99] | 81,000 [23.73] | 109,400 [32.05] | 64,800 [18.99] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 5 | 6 | 4 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Single | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 1/2 | 3/4 |
| Motor RPM | 1725 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 56 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 551 [250] | 556 [252] | 561 [255] | 552 [250] |
| Ship Weight lbs. [kg] | 558 [253] | 563 [255] | 568 [258] | 559 [254] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKP- | A048DM10 | A048DM13 | A048JK08 | A048JK10 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] | 80,000 [23.44] | 100,000 [29.3] |
| Heating Output Btu [kW] | 81,000 [23.73] | 109,350 [32.04] | 64,000 [18.75] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 5 | 6 | 4 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Direct | Direct |
| No. Speeds | Single | Single | Multiple | Multiple |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 3/4 | 3/4 | 1/2 | 1/2 |
| Motor RPM | 1725 | 1725 | 1075 | 1075 |
| Motor Frame Size | 56 | 56 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 557 [253] | 562 [255] | 533 [242] | 538 [244] |
| Ship Weight lbs. [kg] | 564 [256] | 569 [258] | 540 [245] | 545 [247] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A048JK13 | A048YL13 | A048YM13 | A060CK10 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 60,000 [17.58] |
| EER/SEER ² | 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] | 2000/1800 [944/849] |
| AHRI Net Cooling Capacity Btu [kW] | 46,000 [13.48] | 46,000 [13.48] | 46,000 [13.48] | 58,500 [17.14] |
| Net Sensible Capacity Btu [kW] | 34,000 [9.96] | 34,000 [9.96] | 34,000 [9.96] | 41,700 [12.22] |
| Net Latent Capacity Btu [kW] | 12,000 [3.52] | 12,000 [3.52] | 12,000 [3.52] | 16,800 [4.92] |
| Net System Power kW | 3.93 | 3.93 | 3.93 | 4.95 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 135,000 [39.55] | 135,000 [39.55] | 100,000 [29.3] |
| Heating Output Btu [kW] | 110,000 [32.23] | 109,400 [32.05] | 109,400 [32.05] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 6 | 6 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 83 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [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 | 3/4 | 3/4 | 1 |
| Motor RPM | 1075 | 1725 | 1725 | 1075 |
| Motor Frame Size | 48 | 56 | 56 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 63 [1786] |
| Weights | | | | |
| Net Weight lbs. [kg] | 543 [246] | 557 [253] | 562 [255] | 552 [250] |
| Ship Weight lbs. [kg] | 550 [250] | 564 [256] | 569 [258] | 559 [254] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKP- | A060CK13 | A060CL10 | A060CL13 | A060CM10 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 100,000 [29.3] | 135,000 [39.55] | 100,000 [29.3] |
| Heating Output Btu [kW] | 109,400 [32.05] | 81,000 [23.73] | 109,400 [32.05] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 5 | 6 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 83 | 83 | 83 | 83 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3930 [1855] | 3930 [1855] | 3930 [1855] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/11x10 [279x254] | 1/11x10 [279x254] | 1/11x10 [279x254] |
| Drive Type | Direct | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Multiple | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1 | 3/4 | 3/4 | 1 |
| Motor RPM | 1075 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 56 | 56 | 56 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |
| Weights | | | | |
| Net Weight lbs. [kg] | 557 [253] | 564 [256] | 569 [258] | 569 [258] |
| Ship Weight lbs. [kg] | 564 [256] | 571 [259] | 576 [261] | 576 [261] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | A060CM13 | A060DK10 | A060DK13 | A060DL10 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 100,000 [29.3] | 135,000 [39.55] | 100,000 [29.3] |
| Heating Output Btu [kW] | 109,400 [32.05] | 81,000 [23.73] | 109,400 [32.05] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 5 | 6 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 83 | 83 | 83 | 83 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3930 [1855] | 3930 [1855] | 3930 [1855] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/11x10 [279x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/11x10 [279x254] |
| Drive Type | Belt (Adjustable) | Direct | Direct | Belt (Adjustable) |
| No. Speeds | Single | Multiple | Multiple | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1 | 1 | 1 | 3/4 |
| Motor RPM | 1725 | 1075 | 1075 | 1725 |
| Motor Frame Size | 56 | 48 | 48 | 56 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |
| Weights | | | | |
| Net Weight lbs. [kg] | 574 [260] | 552 [250] | 557 [253] | 564 [256] |
| Ship Weight lbs. [kg] | 581 [264] | 559 [254] | 564 [256] | 571 [259] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKP- | A060DL13 | A060DM10 | A060DM13 | A060JK10 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] |
| EER/SEER ² | 11.6/14 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 100,000 [29.3] | 135,000 [39.55] | 100,000 [29.3] |
| Heating Output Btu [kW] | 109,400 [32.05] | 81,000 [23.73] | 109,400 [32.05] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 5 | 6 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 83 | 83 | 83 | 83 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3930 [1855] | 3930 [1855] | 3930 [1855] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/11x10 [279x254] | 1/11x10 [279x254] | 1/11x10 [279x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Direct |
| No. Speeds | Single | Single | Single | Multiple |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 3/4 | 1 | 1 | 1 |
| Motor RPM | 1725 | 1725 | 1725 | 1075 |
| Motor Frame Size | 56 | 56 | 56 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |
| Weights | | | | |
| Net Weight lbs. [kg] | 569 [258] | 569 [258] | 574 [260] | 552 [250] |
| Ship Weight lbs. [kg] | 576 [261] | 576 [261] | 581 [264] | 559 [254] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKPN- | AC060JK13 | A060YL13 | A060YM13 |
|--|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | |
| Gross Cooling Capacity Btu [kW] | 60,000 [17.58] | 60,000 [17.58] | 60,000 [17.58] |
| EER/SEER ² | 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] |
| AHRI Net Cooling Capacity Btu [kW] | 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] |
| Net Latent Capacity Btu [kW] | 16,800 [4.92] | 16,800 [4.92] | 16,800 [4.92] |
| Net System Power kW | 4.95 | 4.95 | 4.95 |
| Heating Performance (Gas)³ | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 135,000 [39.55] | 135,000 [39.55] |
| Heating Output Btu [kW] | 110,000 [31.64] | 109,400 [32.05] | 109,400 [32.05] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 |
| No. Burners | 6 | 6 | 6 |
| No. Stages | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | | |
| | 83 | 83 | 83 |
| Outdoor Coil—Fin Type | | | |
| Tube Type | Louvered | Louvered | Louvered |
| MicroChannel Depth in. [mm] | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Rows / FPI [FPcm] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | | |
| Tube Type | Louvered | Louvered | Louvered |
| MicroChannel Depth in. [mm] | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Rows / FPI [FPcm] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | 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] |
| Outdoor Fan—Type | | | |
| No. Used/Diameter in. [mm] | Propeller | Propeller | Propeller |
| Drive Type/No. Speeds | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| CFM [L/s] | Direct/1 | Direct/1 | Direct/1 |
| No. Motors/HP | 3930 [1855] | 3930 [1855] | 3930 [1855] |
| Motor RPM | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| | 1075 | 1075 | 1075 |
| Indoor Fan—Type | | | |
| No. Used/Diameter in. [mm] | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| Drive Type | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| No. Speeds | Direct | Belt (Adjustable) | Belt (Adjustable) |
| No. Motors | Multiple | Single | Single |
| Motor HP | 1 | 1 | 1 |
| Motor RPM | 1 | 3/4 | 1 |
| Motor Frame Size | 1075 | 1725 | 1725 |
| | 48 | 56 | 56 |
| Filter—Type | | | |
| Furnished | Disposable | Disposable | Disposable |
| (NO.) Size Recommended in. [mm x mm x mm] | Yes | Yes | Yes |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | | | |
| | 63 [1786] | 63 [1786] | 63 [1786] |
| Weights | | | |
| Net Weight lbs. [kg] | 557 [253] | 557 [253] | 562 [255] |
| Ship Weight lbs. [kg] | 564 [256] | 564 [256] | 569 [258] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A036CK08 | A036CK12 | A036CL08 | A036CL12 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1200/1250 [566/590] |
| AHRI Net Cooling Capacity Btu [kW] | 35,400 [10.37] | 35,400 [10.37] | 35,400 [10.37] | 35,400 [10.37] |
| Net Sensible Capacity Btu [kW] | 26,200 [7.68] | 26,200 [7.68] | 26,200 [7.68] | 26,200 [7.68] |
| Net Latent Capacity Btu [kW] | 9,200 [2.7] | 9,200 [2.7] | 9,200 [2.7] | 9,200 [2.7] |
| Net System Power kW | 2.72 | 2.72 | 2.72 | 2.72 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,800 [18.99] | 97,200 [28.48] | 64,800 [18.99] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1 [25] | 1 [25] | 1 [25] | 1 [25] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Multiple | Multiple | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1075 | 1075 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 509 [231] | 519 [236] | 527 [239] | 519 [236] |
| Ship Weight lbs. [kg] | 516 [234] | 527 [239] | 534 [242] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A036CM08 | A036CM12 | A036DK08 | A036DK12 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1200/1250 [566/590] |
| AHRI Net Cooling Capacity Btu [kW] | 35,400 [10.37] | 35,400 [10.37] | 35,400 [10.37] | 35,400 [10.37] |
| Net Sensible Capacity Btu [kW] | 26,200 [7.68] | 26,200 [7.68] | 26,200 [7.68] | 26,200 [7.68] |
| Net Latent Capacity Btu [kW] | 9,200 [2.7] | 9,200 [2.7] | 9,200 [2.7] | 9,200 [2.7] |
| Net System Power kW | 2.72 | 2.72 | 2.72 | 2.72 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,800 [18.99] | 97,200 [28.48] | 64,800 [18.99] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | | | |
| | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | | | | |
| 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] |
| | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | | | |
| 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] |
| | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | | | | |
| 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 |
| Indoor Fan—Type | | | | |
| 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 | Belt (Adjustable) | Belt (Adjustable) | Direct | Direct |
| No. Motors | Single | Single | Multiple | Multiple |
| Motor HP | 1 | 1 | 1 | 1 |
| Motor RPM | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor Frame Size | 1725 | 1725 | 1075 | 1075 |
| | 48 | 48 | 48 | 48 |
| Filter—Type | | | | |
| 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] |
| Refrigerant Charge Oz. [g] | | | | |
| | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 527 [239] | 519 [236] | 509 [231] | 519 [236] |
| Ship Weight lbs. [kg] | 534 [242] | 527 [239] | 516 [234] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A036DL08 | A036DL12 | A036DM08 | A036DM12 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] | 36,200 [10.61] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1200/1250 [566/590] |
| AHRI Net Cooling Capacity Btu [kW] | 35,400 [10.37] | 35,400 [10.37] | 35,400 [10.37] | 35,400 [10.37] |
| Net Sensible Capacity Btu [kW] | 26,200 [7.68] | 26,200 [7.68] | 26,200 [7.68] | 26,200 [7.68] |
| Net Latent Capacity Btu [kW] | 9,200 [2.7] | 9,200 [2.7] | 9,200 [2.7] | 9,200 [2.7] |
| Net System Power kW | 2.72 | 2.72 | 2.72 | 2.72 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 120,000 [35.16] |
| Heating Output Btu [kW] | 64,800 [18.99] | 97,200 [28.48] | 64,800 [18.99] | 97,200 [28.48] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] | 13.9 [1.29] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1 [25] | 1 [25] | 1 [25] | 1 [25] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Single | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1725 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 54 [1531] | 54 [1531] | 54 [1531] | 54 [1531] |
| Weights | | | | |
| Net Weight lbs. [kg] | 527 [239] | 519 [236] | 527 [239] | 519 [236] |
| Ship Weight lbs. [kg] | 534 [242] | 527 [239] | 534 [242] | 527 [239] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A036JK08 | A036JK12 | A048CK08 | A048CK10 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | |
| Gross Cooling Capacity Btu [kW] | 36,200 [10.61] | 36,200 [10.61] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1200/1250 [566/590] | 1200/1250 [566/590] | 1600/1600 [755/755] | 1600/1600 [755/755] |
| AHRI Net Cooling Capacity Btu [kW] | 35,400 [10.37] | 35,400 [10.37] | 46,500 [13.62] | 46,500 [13.62] |
| Net Sensible Capacity Btu [kW] | 26,200 [7.68] | 26,200 [7.68] | 35,700 [10.46] | 35,700 [10.46] |
| Net Latent Capacity Btu [kW] | 9,200 [2.7] | 9,200 [2.7] | 10,800 [3.16] | 10,800 [3.16] |
| Net System Power kW | 2.72 | 2.72 | 3.69 | 3.69 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 120,000 [35.16] | 80,000 [23.44] | 100,000 [29.3] |
| Heating Output Btu [kW] | 64,000 [18.76] | 97,000 [27.83] | 64,800 [18.99] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 6 | 4 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | | | |
| | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | | | | |
| 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] | 16.4 [1.52] | 16.4 [1.52] |
| | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | | | |
| Tube Type | Louvered | Louvered | Louvered | Louvered |
| MicroChannel Depth in. [mm] | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 1 [25] | 1 [25] | 1.3 [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] |
| Outdoor Fan—Type | | | | |
| 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 |
| Indoor Fan—Type | | | | |
| 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 | Direct | Direct | Direct |
| No. Motors | Multiple | Multiple | Multiple | Multiple |
| Motor HP | 1 | 1 | 1 | 1 |
| Motor RPM | 1/2 | 1/2 | 3/4 | 3/4 |
| Motor Frame Size | 1075 | 1075 | 1075 | 1075 |
| | 48 | 48 | 48 | 48 |
| Filter—Type | | | | |
| 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] |
| Refrigerant Charge Oz. [g] | | | | |
| | 54 [1531] | 54 [1531] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 509 [231] | 519 [236] | 533 [242] | 538 [244] |
| Ship Weight lbs. [kg] | 516 [234] | 527 [239] | 540 [245] | 545 [247] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A048CK13 | A048CL08 | A048CL10 | A048CL13 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] |
| AHRI Net Cooling Capacity Btu [kW] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] |
| Net Sensible Capacity Btu [kW] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] |
| Net Latent Capacity Btu [kW] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] |
| Net System Power kW | 3.69 | 3.69 | 3.69 | 3.69 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 109,400 [32.05] | 64,800 [18.99] | 81,000 [23.73] | 109,400 [32.05] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 4 | 5 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Multiple | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 3/4 | 1/2 | 1/2 | 1/2 |
| Motor RPM | 1075 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 543 [246] | 551 [250] | 556 [252] | 561 [255] |
| Ship Weight lbs. [kg] | 550 [250] | 558 [253] | 563 [255] | 568 [258] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A048CM08 | A048CM10 | A048CM13 | A048DK08 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] |
| AHRI Net Cooling Capacity Btu [kW] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] |
| Net Sensible Capacity Btu [kW] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] |
| Net Latent Capacity Btu [kW] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] |
| Net System Power kW | 3.69 | 3.69 | 3.69 | 3.69 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] | 80,000 [23.44] |
| Heating Output Btu [kW] | 64,800 [18.99] | 81,000 [23.73] | 109,400 [32.05] | 64,800 [18.99] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 4 | 5 | 6 | 4 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Direct |
| No. Speeds | Single | Single | Single | Multiple |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 3/4 | 3/4 | 3/4 | 3/4 |
| Motor RPM | 1725 | 1725 | 1725 | 1075 |
| Motor Frame Size | 56 | 56 | 56 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 552 [250] | 557 [253] | 562 [255] | 533 [242] |
| Ship Weight lbs. [kg] | 559 [254] | 564 [256] | 569 [258] | 540 [245] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A048DK10 | A048DK13 | A048DL08 | A048DL10 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] |
| AHRI Net Cooling Capacity Btu [kW] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] |
| Net Sensible Capacity Btu [kW] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] |
| Net Latent Capacity Btu [kW] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] |
| Net System Power kW | 3.69 | 3.69 | 3.69 | 3.69 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] | 80,000 [23.44] | 100,000 [29.3] |
| Heating Output Btu [kW] | 81,000 [23.73] | 109,400 [32.05] | 64,800 [18.99] | 81,000 [23.73] |
| Temperature Rise Range °F [°C] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 5 | 6 | 4 | 5 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Multiple | Multiple | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 3/4 | 3/4 | 1/2 | 1/2 |
| Motor RPM | 1075 | 1075 | 1725 | 1725 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 538 [244] | 543 [246] | 551 [250] | 556 [252] |
| Ship Weight lbs. [kg] | 545 [247] | 550 [250] | 558 [253] | 563 [255] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A048DL13 | A048DM08 | A048DM10 | A048DM13 |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 12.5/15 | 12.5/15 | 12.5/15 | 12.5/15 |
| Nominal CFM/AHRI Rated CFM [L/s] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] | 1600/1600 [755/755] |
| AHRI Net Cooling Capacity Btu [kW] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] | 46,500 [13.62] |
| Net Sensible Capacity Btu [kW] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] | 35,700 [10.46] |
| Net Latent Capacity Btu [kW] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] |
| Net System Power kW | 3.69 | 3.69 | 3.69 | 3.69 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 135,000 [39.55] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 109,400 [32.05] | 64,800 [18.99] | 81,000 [23.73] | 109,400 [32.05] |
| Temperature Rise Range °F [°C] | 40-70 [22.2-38.9] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 6 | 4 | 5 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 78 | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3680 [1737] | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) | Belt (Adjustable) |
| No. Speeds | Single | Single | Single | Single |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 3/4 | 3/4 | 3/4 |
| Motor RPM | 1725 | 1725 | 1725 | 1725 |
| Motor Frame Size | 48 | 56 | 56 | 56 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 68 [1928] | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | | |
| Net Weight lbs. [kg] | 561 [255] | 552 [250] | 557 [253] | 562 [255] |
| Ship Weight lbs. [kg] | 568 [258] | 559 [254] | 564 [256] | 569 [258] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A048JK08 | A048JK10 | A048JK13 |
|--|-------------------------|-------------------------|-------------------------|
| Cooling Performance¹ | | | |
| Gross Cooling Capacity Btu [kW] | 48,000 [14.06] | 48,000 [14.06] | 48,000 [14.06] |
| EER/SEER ² | 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] |
| AHRI Net Cooling Capacity Btu [kW] | 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] |
| Net Latent Capacity Btu [kW] | 10,800 [3.16] | 10,800 [3.16] | 10,800 [3.16] |
| Net System Power kW | 3.69 | 3.69 | 3.69 |
| Heating Performance (Gas)³ | | | |
| Heating Input Btu [kW] | 80,000 [23.44] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 64,000 [18.76] | 81,000 [23.73] | 110,000 [31.64] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 |
| No. Burners | 4 | 5 | 6 |
| No. Stages | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | | |
| | 78 | 78 | 78 |
| Outdoor Coil—Fin Type | | | |
| Tube Type | Louvered | Louvered | Louvered |
| MicroChannel Depth in. [mm] | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Rows / FPI [FPcm] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | | |
| Tube Type | Louvered | Louvered | Louvered |
| MicroChannel Depth in. [mm] | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Rows / FPI [FPcm] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | 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] |
| Outdoor Fan—Type | | | |
| No. Used/Diameter in. [mm] | Propeller | Propeller | Propeller |
| Drive Type/No. Speeds | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| CFM [L/s] | Direct/1 | Direct/1 | Direct/1 |
| No. Motors/HP | 3680 [1737] | 3680 [1737] | 3680 [1737] |
| Motor RPM | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| | 1075 | 1075 | 1075 |
| Indoor Fan—Type | | | |
| No. Used/Diameter in. [mm] | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| Drive Type | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| No. Speeds | Direct | Direct | Direct |
| No. Motors | Multiple | Multiple | Multiple |
| Motor HP | 1 | 1 | 1 |
| Motor RPM | 3/4 | 3/4 | 3/4 |
| Motor Frame Size | 1075 | 1075 | 1075 |
| | 48 | 48 | 48 |
| Filter—Type | | | |
| Furnished | Disposable | Disposable | Disposable |
| (NO.) Size Recommended in. [mm x mm x mm] | Yes | Yes | Yes |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | | | |
| | 68 [1928] | 68 [1928] | 68 [1928] |
| Weights | | | |
| Net Weight lbs. [kg] | 533 [242] | 538 [244] | 543 [246] |
| Ship Weight lbs. [kg] | 540 [245] | 545 [247] | 550 [250] |

CONTINUED →

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A060CK10 | A060CK13 | A060CV10 | A060CV13 |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Cooling Performance¹ | | | | |
| CONTINUED → | | | | |
| Gross Cooling Capacity Btu [kW] | 59,000 [17.29] | 59,000 [17.29] | 59,000 [17.29] | 59,000 [17.29] |
| SEER ² | 15 | 15 | 15 | 15 |
| EER (1st stage / 2nd stage) | 19.9/11.6 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 81,000 [23.73] | 109,400 [32.05] | 81,000 [23.73] | 109,400 [32.05] |
| Temperature Rise Range °F [°C] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 5 | 6 | 5 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | | | |
| | 83 | 83 | 83 | 83 |
| Outdoor Coil—Fin Type | | | | |
| | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | | | |
| | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | | | | |
| | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3930 [1855] | 3930 [1855] | 3930 [1855] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | | | | |
| | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/11x10 [279x254] | 1/11x10 [279x254] |
| Drive Type | Direct | Direct | Direct | Direct |
| No. Speeds | Multiple | Multiple | Variable | Variable |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1 | 1 | 1 | 1 |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | | | | |
| | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | | | | |
| | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |
| Weights | | | | |
| Net Weight lbs. [kg] | 548 [249] | 555 [252] | 548 [249] | 555 [252] |
| Ship Weight lbs. [kg] | 555 [252] | 562 [255] | 555 [252] | 562 [255] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A060DK10 | A060DK13 | A060DV10 | A060DV13 |
|--|--|--|--|--|
| Cooling Performance¹ | | | | CONTINUED → |
| Gross Cooling Capacity Btu [kW] | 59,000 [17.29] | 59,000 [17.29] | 59,000 [17.29] | 59,000 [17.29] |
| SEER ² | 15 | 15 | 15 | 15 |
| EER (1st stage / 2nd stage) | 19.9/11.6 | 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 |
| Heating Performance (Gas)³ | | | | |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 81,000 [23.73] | 109,400 [32.05] | 81,000 [23.73] | 109,400 [32.05] |
| Temperature Rise Range °F [°C] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 5 | 6 | 5 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | 83 | 83 | 83 | 83 |
| Outdoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | Propeller | Propeller | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| CFM [L/s] | 3930 [1855] | 3930 [1855] | 3930 [1855] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Indoor Fan—Type | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/11x10 [279x254] | 1/11x10 [279x254] |
| Drive Type | Direct | Direct | Direct | Direct |
| No. Speeds | Multiple | Multiple | Variable | Variable |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1 | 1 | 1 | 1 |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Motor Frame Size | 48 | 48 | 48 | 48 |
| Filter—Type | Disposable | Disposable | Disposable | Disposable |
| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |
| Weights | | | | |
| Net Weight lbs. [kg] | 548 [249] | 555 [252] | 604 [274] | 611 [277] |
| Ship Weight lbs. [kg] | 555 [252] | 562 [255] | 611 [277] | 618 [280] |

See Page 34 for Notes.

[] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model RKQN- | A060JK10 | A060JK13 |
|--|-----------------------------|-----------------------------|
| Cooling Performance¹ | | |
| Gross Cooling Capacity Btu [kW] | 59,000 [17.29] | 59,000 [17.29] |
| SEER ² | 15 | 15 |
| EER (1st stage / 2nd stage) | 19.9/11.6 | 19.9/11.6 |
| AHRI Rated CFM (1st / 2nd stage) [L/s] | 1375 / 1800 [649 / 849] | 1375 / 1800 [649 / 849] |
| AHRI Net Cooling Capacity (1st / 2nd stage) Btu [kW] | 49,000 / 57,000 [14.3/16.7] | 49,000 / 57,000 [14.3/16.7] |
| Net Sensible Capacity (1st / 2nd stage) Btu [kW] | 34,800 / 40,800 [10.2/12.0] | 34,800 / 40,800 [10.2/12.0] |
| Net Latent Capacity (1st / 2nd stage) Btu [kW] | 14,200 / 16,200 [4.2 / 4.8] | 14,200 / 16,200 [4.2 / 4.8] |
| Net System Power (1st / 2nd stage) [kW] | 2.1 / 4.8 | 2.1 / 4.8 |
| Heating Performance (Gas)³ | | |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 81,000 [23.73] | 106,000 [30.48] |
| Temperature Rise Range °F [°C] | 30-60 [16.7-33.3] | 40-70 [22.2-38.9] |
| AFUE % | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 |
| No. Burners | 5 | 6 |
| No. Stages | 1 | 1 |
| Gas Connection Pipe Size in. [mm] | 0.5 [12.7] | 0.5 [12.7] |
| Compressor | | |
| No./Type | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB)⁴ | | |
| | 83 | 83 |
| Outdoor Coil—Fin Type | | |
| | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 0.7 [18] | 0.7 [18] |
| Face Area sq. ft. [sq. m] | 16.4 [1.52] | 16.4 [1.52] |
| Rows / FPI [FPcm] | 1 / 23 [9] | 1 / 23 [9] |
| Indoor Coil—Fin Type | | |
| | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel |
| MicroChannel Depth in. [mm] | 1.3 [32] | 1.3 [32] |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] |
| Rows / FPI [FPcm] | 1 / 20 [8] | 1 / 20 [8] |
| Refrigerant Control | TX Valves | TX Valves |
| Drain Connection No./Size in. [mm] | 1/0.75 [19.05] | 1/0.75 [19.05] |
| Outdoor Fan—Type | | |
| | Propeller | Propeller |
| No. Used/Diameter in. [mm] | 1/24 [609.6] | 1/24 [609.6] |
| Drive Type/No. Speeds | Direct/1 | Direct/1 |
| CFM [L/s] | 3930 [1855] | 3930 [1855] |
| No. Motors/HP | 1 at 1/3 HP | 1 at 1/3 HP |
| Motor RPM | 1075 | 1075 |
| Indoor Fan—Type | | |
| | FC Centrifugal | FC Centrifugal |
| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct |
| No. Speeds | Multiple | Multiple |
| No. Motors | 1 | 1 |
| Motor HP | 1 | 1 |
| Motor RPM | 1075 | 1075 |
| Motor Frame Size | 48 | 48 |
| Filter—Type | | |
| | Disposable | Disposable |
| Furnished | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| Refrigerant Charge Oz. [g] | | |
| | 63 [1786] | 63 [1786] |
| Weights | | |
| Net Weight lbs. [kg] | 548 [249] | 555 [252] |
| Ship Weight lbs. [kg] | 535 [252] | 562 [255] |

See Page 34 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. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GROSS SYSTEMS PERFORMANCE DATA—RKPN-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 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—RKP-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—RKPN-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—RKQN-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 – RKQN-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—RKQN-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

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

[] 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] | | |
| RKPN-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 | | | |
| RKPN-A048 | Med | Med | 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 | 1667 | | | | 1651 | 1616 | 1569 | 1517 | 1441 | 1371 | 1153 | | | |
| RKPN-A060 | Med | High | 135,000 [39.56] | 1750/2250 | 10x10 3/4 HP [559] 3 Speed Motor (PSC Motor) | High | CFM | 782 | 751 | 713 | 680 | 644 | 597 | 564 | 485 | |
| | | Watts | 1678 | | | | 1641 | 1599 | 1557 | 1521 | 1471 | 1430 | 1384 | | | |
| | | Low | 1842 | | | | 1820 | 1781 | 1741 | 1703 | 1659 | 1613 | 1536 | | | |
| RKPN-A060 | High | Low | 100,000 [29.31] | 1750/2250 | 10x10 3/4 HP [559] 3 Speed Motor (PSC Motor) | Med | CFM | 354 | 364 | 386 | 409 | 430 | 456 | 470 | 491 | |
| | | Watts | 455 | | | | 479 | 489 | 516 | 529 | 551 | 574 | 571 | | | |
| | | High | 2476 | | | | 2417 | 2336 | 2229 | 2120 | 1965 | 1816 | 1625 | | | |
| RKPN-A060 | High | Med | 135,000 [39.56] | 1750/2250 | 10x10 3/4 HP [559] 3 Speed Motor (PSC Motor) | High | CFM | 1010 | 989 | 977 | 918 | 862 | 781 | 707 | 620 | |
| | | Watts | 1010 | | | | 989 | 977 | 918 | 862 | 781 | 707 | 620 | | | |
| | | High | 2476 | | | | 2417 | 2336 | 2229 | 2120 | 1965 | 1816 | 1625 | | | |

[] 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] | | |
| RKPN-A036 | | | 80,000 [23.45] | 1050/1350 | 10x10 1/2 HP [373] 3 Speed Motor (PSC Motor) | Low | CFM | 1346 | 1341 | 1329 | 1287 | 1212 | 1157 | 969 | 888 | |
| | | Low | Watts | | | | 596 | 580 | 557 | 523 | 483 | 463 | 401 | 371 | | |
| | Low | Med | 120,000 [35.17] | | | | CFM | 1496 | 1494 | 1474 | 1442 | 1391 | 1323 | 1139 | 932 | |
| RKPN-A048 | | | 100,000 [29.31] | 1400/1800 | 10x10 1/2 HP [373] 3 Speed Motor (PSC Motor) | Med | Watts | 697 | 679 | 653 | 622 | 591 | 550 | 486 | 431 | |
| | | High | CFM | | | | 1868 | 1834 | 1786 | 1719 | 1636 | 1521 | 1345 | 1037 | | |
| | Med | High | 135,000 [39.56] | | | | Watts | 870 | 839 | 799 | 754 | 713 | 657 | 591 | 503 | |
| RKPN-A060 | | | 80,000 [23.45] | 1750/2250 | 10x10 1 HP [745] 3 Speed Motor (X-13 Motor) | Low | CFM | 1355 | 1352 | 1340 | 1318 | 1275 | 1200 | 1094 | 912 | |
| | | Low | Watts | | | | 598 | 580 | 562 | 541 | 512 | 473 | 432 | 385 | | |
| | Med | Med | 100,000 [29.31] | | | | CFM | 1504 | 1490 | 1474 | 1440 | 1396 | 1324 | 1215 | 1087 | |
| RKPN-A060 | | | 100,000 [29.31] | 1750/2250 | 10x10 1 HP [745] 3 Speed Motor (X-13 Motor) | High | Watts | 677 | 656 | 635 | 606 | 576 | 536 | 488 | 442 | |
| | | High | CFM | | | | 1875 | 1846 | 1798 | 1740 | 1679 | 1602 | 1464 | 1268 | | |
| | Med | High | 135,000 [39.56] | | | | Watts | 874 | 842 | 805 | 765 | 729 | 688 | 629 | 559 | |
| RKPN-A060 | | | 100,000 [29.31] | 1750/2250 | 10x10 1 HP [745] 3 Speed Motor (X-13 Motor) | Low | CFM | 1678 | 1641 | 1599 | 1557 | 1521 | 1471 | 1430 | 1384 | |
| | | Low | Watts | | | | 354 | 364 | 386 | 409 | 430 | 456 | 470 | 491 | | |
| | Med | Med | 100,000 [29.31] | | | | CFM | 1842 | 1820 | 1781 | 1741 | 1703 | 1659 | 1613 | 1536 | |
| RKPN-A060 | | | 135,000 [39.56] | 1750/2250 | 10x10 1 HP [745] 3 Speed Motor (X-13 Motor) | High | Watts | 455 | 479 | 489 | 516 | 529 | 551 | 574 | 571 | |
| | | High | CFM | | | | 2476 | 2417 | 2336 | 2229 | 2120 | 1965 | 1816 | 1625 | | |
| | Med | High | 135,000 [39.56] | | | | 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 [.02] | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] | 0.8 [.20] | |
| RKQN-A036 | Low (Tap 2) | | | 1050/1350 | 10x10 1/2 HP [373] 3 Speed Motor (X-13 Motor) | Low (Tap 2) | CFM | 1345 | 1302 | 1260 | 1220 | 1178 | 1122 | 1076 | 979 |
| | | Med. (Tap 3) | Watts | | | 215 | 230 | 245 | 260 | 274 | 284 | 303 | 320 | | |
| | | High (Tap 4) | CFM | | | 1438 | 1398 | 1360 | 1322 | 1284 | 1245 | 1200 | 1137 | | |
| | | | Watts | | | 261 | 276 | 291 | 306 | 320 | 334 | 348 | 362 | | |
| RKQN-A048 | Med (Tap 2) | | | 1400/1800 | 10x10 3/4 HP [559] 4 Speed Motor (X-13 Motor) | Low (Tap 1) | CFM | 1403 | 1345 | 1310 | 1269 | 1212 | 1164 | 1083 | 1028 |
| | | Med. (Tap 3) | Watts | | | 232 | 244 | 255 | 267 | 283 | 297 | 315 | 324 | | |
| | | High (Tap 4) | CFM | | | 1677 | 1639 | 1597 | 1559 | 1522 | 1487 | 1432 | 1390 | | |
| | | | Watts | | | 354 | 367 | 382 | 396 | 412 | 425 | 442 | 459 | | |
| RKQN-A060 | Low Cool (Tap 1) High Cool (Tap 3) | | | 1st Stage Cool 1350/1400 2nd Stage Cool 1750/2250 | 10x10 1 HP [745] 5 Speed Motor (X-13 Motor) | Low Cool (Tap 1) | CFM | 1404 | 1369 | 1326 | 1265 | 1221 | 1166 | 1107 | 1043 |
| | | High Cool (Tap 3) | 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 | | |
| RKQN-A060 | High (Tap 3) | | | 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 | | |
| RKQN-A060 | High (Tap 3) | | | 1st Stage Cool 1350/1400 2nd Stage Cool 1750/2250 | 10x10 1 HP [745] 5 Speed Motor (X-13 Motor) | High (Tap 3) | CFM | 2476 | 2417 | 2336 | 2229 | 2120 | 1965 | 1816 | 1625 |
| | | | Watts | | | 1010 | 989 | 977 | 918 | 862 | 781 | 707 | 620 | | |

[] Designates Metric Conversions

AIRFLOW PERFORMANCE — 3 TON [10.55 kW] 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 | 261 | 292 | 318 | 338 | 352 | 360 | 362 | 362 | 362 | 362 | 362 | | | | | | | | | |
| 1000 [472] | — | 662 | 228 | 258 | 281 | 293 | 306 | 318 | 323 | 323 | 323 | 323 | 323 | 323 | 323 | | | | | | | | | |
| 1100 [519] | — | 667 | 275 | 298 | 318 | 328 | 338 | 346 | 352 | 355 | 355 | 355 | 355 | 355 | 355 | | | | | | | | | |
| 1200 [566] | 643 | 278 | 693 | 298 | 318 | 334 | 344 | 352 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | | | | | | | | | |
| 1300 [614] | 661 | 316 | 716 | 341 | 355 | 365 | 371 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | | | | | | | | | |
| 1400 [661] | 669 | 352 | 739 | 387 | 397 | 404 | 408 | 411 | 411 | 411 | 411 | 411 | 411 | 411 | 411 | | | | | | | | | |
| 1500 [708] | 702 | 399 | 763 | 434 | 444 | 451 | 454 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | | | | | | | | | |

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

| Drive Package | L | | | | | | | | | | | | M | | | | | | | | | | | |
|----------------|----------------------------|-----|------------|-----|-----|-----|------|------|------|-------------|-----|-----|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Motor H.P. [W] | 1/2 [373] | | | | | | | | | | | | 1/2 [373] | | | | | | | | | | | |
| Blower Sheave | 6.9" Pitch Diameter | | | | | | | | | | | | 6.4" Pitch Diameter | | | | | | | | | | | |
| Motor Sheave | 2.4" - 3.4" 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 |
| RPM | 910 | 869 | 818 | 775 | 728 | 682 | 1176 | 1145 | 1108 | 1060 | 996 | 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 | 940 | 456 | 999 | 475 | 1057 | 496 | 1113 | 519 | 1168 | 545 | 1221 | 572 | 1272 | 602 | 1322 | 634 | 1371 | 669 | 1420 | 704 | | | |
| 1300 [614] | — | — | — | 838 | 437 | 899 | 457 | 958 | 479 | 1015 | 503 | 1071 | 529 | 1126 | 558 | 1178 | 589 | 1230 | 622 | 1279 | 657 | 1327 | 695 | 1374 | 734 | 1421 | 773 | | | |
| 1400 [661] | — | — | — | 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 | 849 | 905 | 523 | 960 | 559 | 1013 | 588 | 1065 | 638 | 1115 | 681 | 1164 | 725 | 1211 | 772 | 1257 | 821 | 1301 | 873 | 1343 | 926 | 1385 | 979 | 1427 | 1032 | |
| 1700 [802] | — | — | 817 | 493 | 873 | 930 | 530 | 928 | 569 | 1011 | 611 | 1032 | 654 | 1082 | 700 | 1130 | 748 | 1177 | 798 | 1222 | 851 | 1266 | 905 | 1308 | 962 | 1349 | 1021 | 1390 | 1080 | 1431 |
| 1800 [850] | 791 | 490 | 844 | 537 | 898 | 959 | 550 | 950 | 624 | 1002 | 670 | 1051 | 719 | 1099 | 771 | 1146 | 824 | 1190 | 880 | 1234 | 937 | 1276 | 997 | 1316 | 1059 | 1355 | 1124 | 1394 | 1189 | — |
| 1900 [897] | 816 | 543 | 870 | 589 | 923 | 973 | 687 | 1023 | 739 | 1070 | 793 | 1116 | 850 | 1161 | 908 | 1204 | 969 | 1245 | 1033 | 1285 | 1098 | 1324 | 1166 | 1361 | 1235 | 1398 | 1304 | — | — | |
| 2000 [944] | 845 | 599 | 897 | 650 | 947 | 1031 | 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 | 781 | 1207 | 1174 | 1141 | 1111 | 1071 | 1031 | 991 | 951 | 911 | 871 | 831 | 791 | 751 | 711 | 671 | 631 | 591 | 551 | 511 | 471 | 431 | 391 | 351 | 311 |

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] 14 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 | 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 | 1397 |
| 1900 [897] | 716 | 491 | 776 | 560 | 823 | 600 | 869 | 645 | 915 | 695 | 959 | 751 | 1003 | 812 | 1045 | 879 | 1086 | 951 | 1127 | 1029 | 1166 | 1113 | 1204 | 1202 | 1242 | 1296 | 1278 | 1396 | 1314 | 1496 | — | — | | |
| 2000 [944] | 745 | 562 | 797 | 615 | 843 | 658 | 889 | 707 | 933 | 762 | 976 | 821 | 1018 | 887 | 1059 | 958 | 1099 | 1034 | 1139 | 1116 | 1177 | 1203 | 1214 | 1296 | 1250 | 1394 | 1285 | 1498 | 1320 | 1602 | — | — | | |
| 2100 [991] | 773 | 637 | 819 | 679 | 864 | 726 | 908 | 779 | 951 | 837 | 993 | 901 | 1034 | 970 | 1074 | 1045 | 1113 | 1125 | 1151 | 1211 | 1188 | 1303 | 1224 | 1399 | 1259 | 1502 | 1293 | 1609 | — | — | — | — | | |
| 2200 [1038] | 797 | 706 | 842 | 751 | 886 | 803 | 929 | 860 | 971 | 922 | 1011 | 990 | 1051 | 1063 | 1090 | 1142 | 1128 | 1226 | 1165 | 1316 | 1200 | 1411 | 1235 | 1512 | 1269 | 1618 | — | — | — | — | — | — | | |
| 2300 [1085] | 822 | 783 | 865 | 833 | 908 | 888 | 950 | 949 | 990 | 1015 | 1030 | 1087 | 1069 | 1164 | 1106 | 1247 | 1143 | 1335 | 1179 | 1429 | 1213 | 1528 | 1247 | 1633 | 1279 | 1743 | — | — | — | — | — | — | — | |
| 2400 [1133] | 847 | 870 | 889 | 924 | 931 | 983 | 971 | 1048 | 1011 | 1118 | 1049 | 1194 | 1087 | 1275 | 1123 | 1362 | 1159 | 1454 | 1193 | 1551 | 1227 | 1655 | 1259 | 1763 | 1291 | 1878 | — | — | — | — | — | — | | |
| 2500 [1179] | 873 | 966 | 914 | 1023 | 954 | 1087 | 994 | 1155 | 1032 | 1229 | 1069 | 1309 | 1106 | 1394 | 1141 | 1485 | 1175 | 1581 | 1209 | 1683 | 1241 | 1790 | 1272 | 1903 | — | — | — | — | — | — | — | — | — | |

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

| Drive Package | L | | M | | N Drive (Field Supplied) | |
|----------------|----------------------------|-----|----------------------------|------|----------------------------|------|
| Motor H.P. [W] | 3/4 [559] | | 1 [746] | | 1 [746] | |
| Blower Sheave | 6.9" Pitch Diameter | | 6.9" Pitch Diameter | | 6.4" Pitch Diameter | |
| Motor Sheave | 2.8" - 3.8" Pitch Diameter | | 4.0" - 5.0" Pitch Diameter | | 4.0" - 5.0" Pitch Diameter | |
| Turns Open | 0 | 1 | 2 | 3 | 4 | 5 |
| RPM | 967 | 936 | 900 | 855 | 816 | 769 |
| | | | | 1248 | 1203 | 1163 |
| | | | | 1078 | 1042 | 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] | 0.070 | | 0.085 | | 0.100 | |
| Wet Coil | | | | | | | 0.110 | | 0.120 | | 0.125 | |
| Downflow | | | | | | | 0.093 | | 0.100 | | 0.107 | |
| R.S.I. Economizer R.A. Damper | | | | | | | 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 – RKPN SERIES

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

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

| | | A060CK | A060CL | A060CM | A060DK | A060DL | A060DM | A060JK | A060YL | A060YM |
|-------------------------|--|---------|-----------|-----------|---------|---------|---------|-----------|---------|---------|
| Unit Information | Unit Operating Voltage Range | 187-253 | 187-253 | 187-253 | 414-506 | 414-506 | 414-506 | 187-253 | 517-633 | 517-633 |
| | Volts | 208/230 | 208/230 | 208/230 | 460 | 460 | 460 | 208/230 | 575 | 575 |
| | Minimum Circuit Ampacity | 30/30 | 26/26 | 27/27 | 15 | 13 | 13 | 43/43 | 10 | 10 |
| | Minimum Overcurrent Protection Device Size | 35/35 | 30/30 | 35/35 | 20 | 15 | 15 | 50/50 | 15 | 15 |
| | Maximum Overcurrent Protection Device Size | 45/45 | 40/40 | 40/40 | 20 | 20 | 20 | 60/60 | 15 | 15 |
| Compressor Motor | No. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Volts | 208/230 | 208/230 | 208/230 | 460 | 460 | 460 | 208/230 | 575 | 575 |
| | Phase | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 |
| | RPM | 3450 | 3450 | 3450 | 3450 | 3450 | 3450 | 3450 | 3450 | 3450 |
| | HP, Compressor 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | Amps (RLA), Comp. 1 | 16/16 | 16/16 | 16/16 | 7.8 | 7.8 | 7.8 | 26.4/26.4 | 5.7 | 5.7 |
| | Amps (LRA), Comp. 1 | 110/110 | 110/110 | 110/110 | 52 | 52 | 52 | 134/134 | 39.9 | 39.9 |
| 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 | 14.6/14.6 | 0 | 8.4 | 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 – RKQN SERIES

| | | A036CK | A036CL | A036CM | A036DK | A036DL | A036DM | A036JK | A048CK | A048CL |
|-------------------------|--|---------|-----------|-----------|---------|---------|---------|-----------|-----------|-----------|
| Unit Information | 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 | 25/25 | 15 | 15 | 15 | 35/35 | 35/35 | 30/30 |
| Compressor Motor | 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 |
| Condenser Motor | 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 |
| Evaporator Fan | 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 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| | Amps (FLA, each) | 4.1/4.1 | 2.8/2.8 | 2.8/2.8 | 2.1 | 1.4 | 1.4 | 4.1/4.1 | 6/6 | 2.8/2.8 |
| | Amps (LRA, each) | 0/0 | 11.3/11.3 | 11.3/11.3 | 0 | 6.2 | 6.2 | 0/0 | 0/0 | 11.3/11.3 |

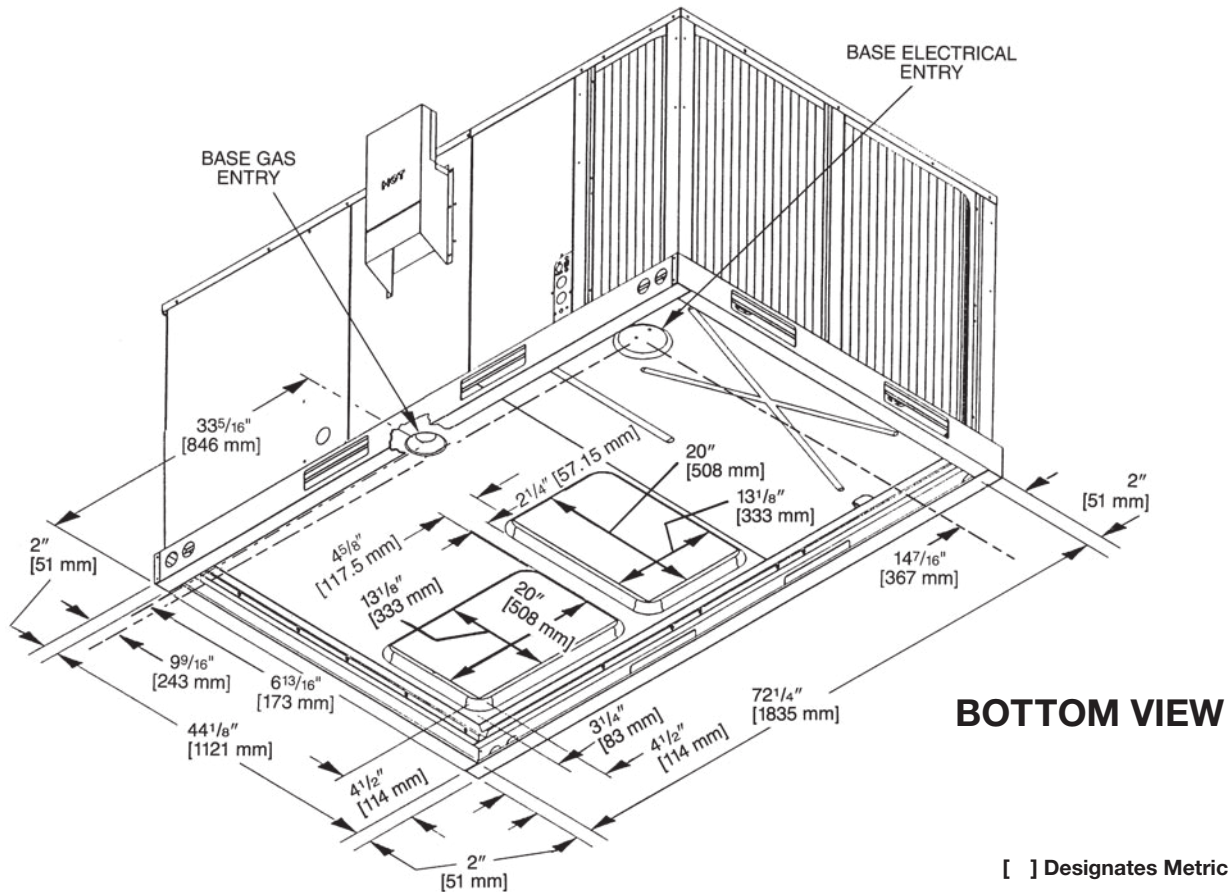
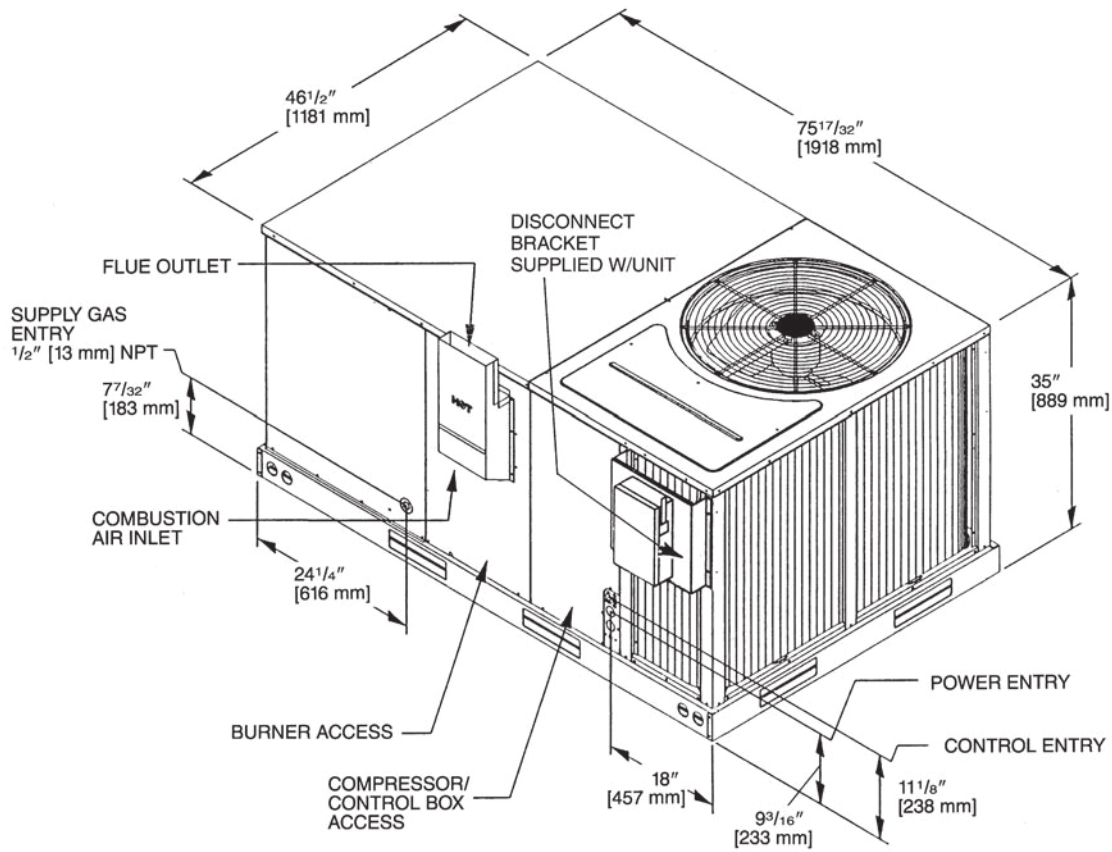
1. Horsepower Per Compressor.
 2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

ELECTRICAL DATA – RKQN SERIES

| | | 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 |

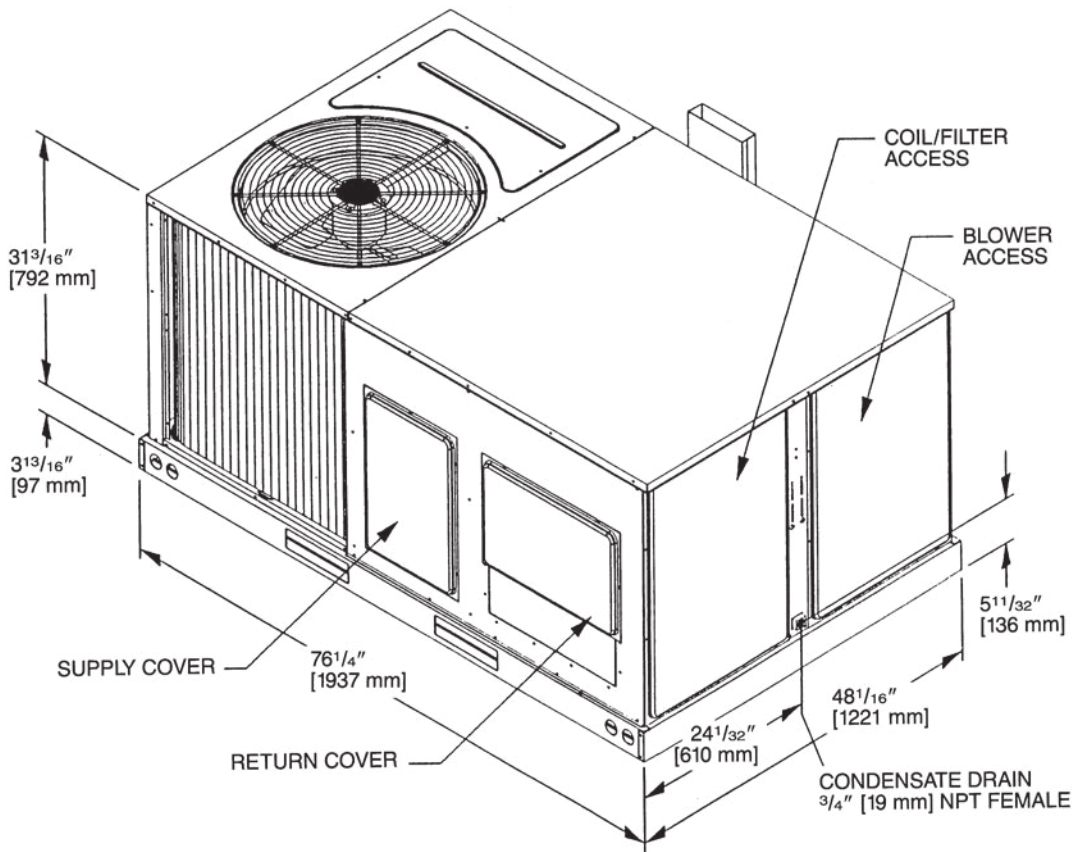
1. Horsepower Per Compressor.

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

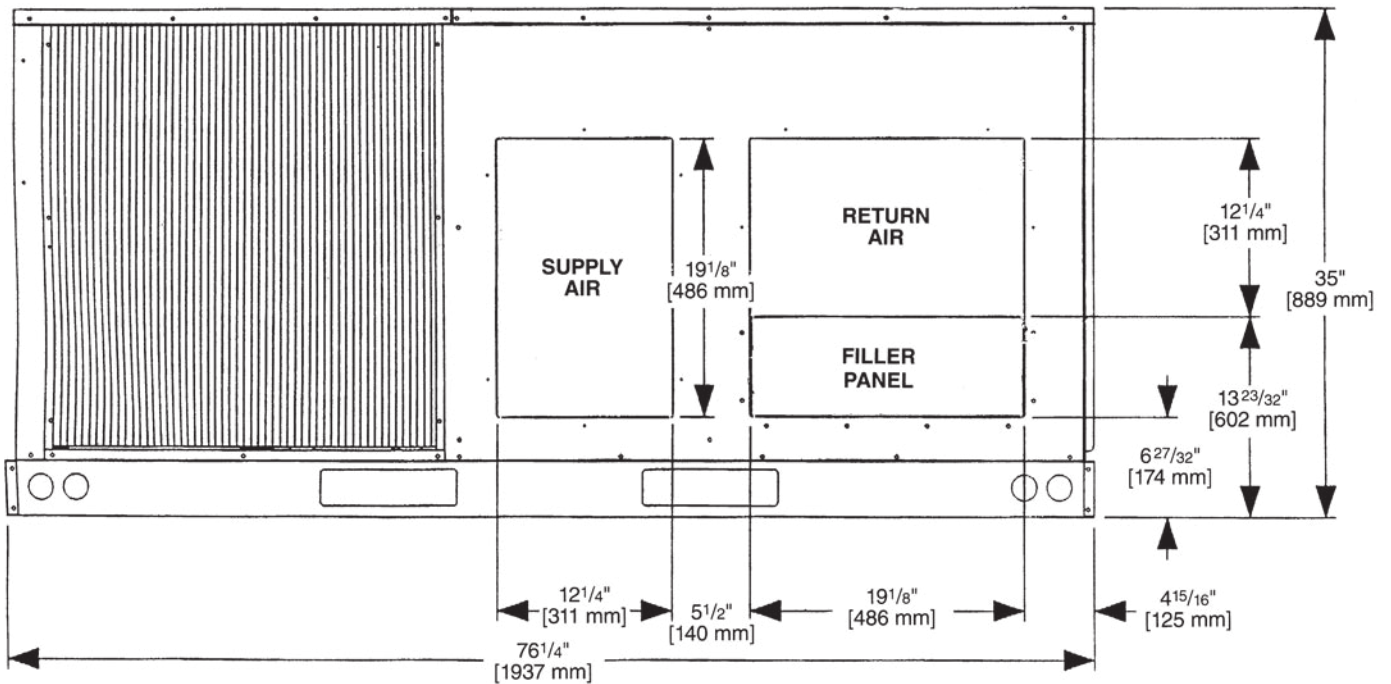


BOTTOM VIEW

[] Designates Metric Conversions



SUPPLY AND RETURN DIMENSIONS



[] Designates Metric Conversions

WEIGHTS

| Accessory | 3-5 Ton [10.6-17.6 kW] | |
|--|------------------------|-----------|
| | Shipping | Operating |
| | lbs [kg] | lbs [kg] |
| Economizer with Single Enthalpy | 71 [32] | 70 [32] |
| Economizer with Smoke Detector | 74 [34] | 73 [33] |
| 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] |

CENTER OF GRAVITY (C.G.)

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

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

CLEARANCES

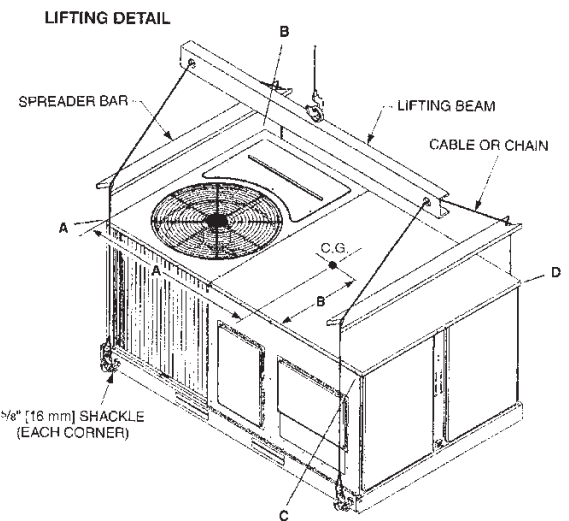
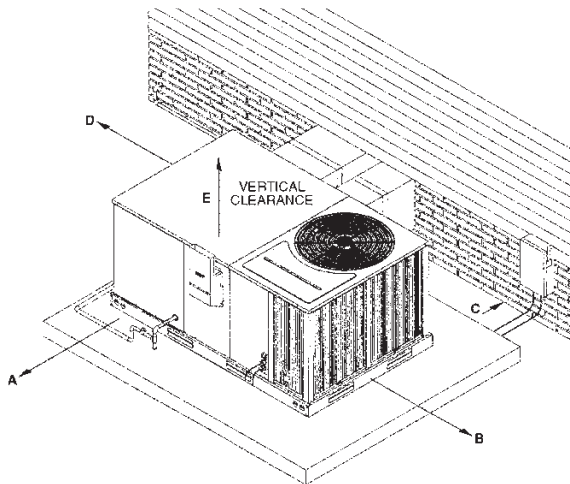
(3 to 5 Ton [10.6 to 17.6 kW] Models)

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 |

*Without Economizer. 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.



[] Designates Metric Conversions

ACCESSORY EQUIPMENT

| Accessory Description | Model Application 3 to 5 Ton [10.6 to 17.6 kW] | Accessory Model No. 3 to 5 Ton [10.6 to 17.6 kW] | Factory Installed 3 to 5 Ton [10.6 to 17.6 kW] |
|--|--|--|--|
| Thermostats | RKPN/RKQN | See Thermostat Specification Sheet (T11-001) | No |
| Roofcurb, 14" | RKPN/RKQN | RXKG-CAD14 | No |
| Roofcurb, 24" | RKPN/RKQN | RXKG-CAD24 | No |
| Roofcurb Adapters | RKPN/RKQN | RXRX-BBCDB21 RXRX-BBCDB22 RXRX-BBCDB23 | No |
| Economizer with Single Enthalpy ② | RKPN/RKQN | AXRD-01RECAM3 | Yes |
| Economizer with Smoke Detector ② | RKPN/RKQN | AXRD-01RECBM3 | Yes |
| Dual Enthalpy Kit | RKPN/RKQN | RXRX-AV04 | No |
| CO ² Sensor Only | RKPN/RKQN | RXRX-AR02 | No |
| Power Exhaust | RKPN/RKQN | AXRX-BGF04C, D, Y | No |
| Fresh Air Damper Manual | RKPN/RKQN | AXRF-FBA1 | No |
| Fresh Air Damper Motorized | RKPN/RKQN | AXRF-FBB1 | No |
| Rectangular to Round 18" Duct Adapters for Concentric Diffuser | RKPN/RKQN | RXMC-CB03 | No |
| Rectangular to Round 20" Duct Adapters for Concentric Diffuser | RKPN/RKQN | RXMC-CB04 | No |
| Concentric Diffuser 18" Step | RKPN/RKQN | RXRN-FA60, RXRN-FA65 | No |
| Concentric Diffuser 18" Flush | RKPN/RKQN | RXRN-FA70, RXRN-FA75 | No |
| Rectangular to Round 16" Side | RKPN/RKQN | RXMC-BB01 | No |
| Louver Kit (2 Sides) 3-Ton | RKPN/RKQN | AXRX-AAD02B | Yes |
| Louver Kit (3 Sides) 4 & 5-Ton | RKPN/RKQN | AXRX-AAD01B | Yes |
| Time Delay | RKPN/RKQN | RXMD-B01 | Yes |
| Low Ambient Control to 0°F [-18°C] | RKPN/RKQN | RXRZ-A04 | Yes |
| LP Conversion Kits for use with White Rodgers Gas Valve ① | RKPN/RKQN | RXGJ-EP84W | No |
| LP Conversion Kits for use with Honeywell Gas Valve ① | RKPN/RKQN | RXGJ-EP85H | No |
| Canadian High Altitude Kit (for Natural Gas Only) ① | RKPN/RKQN | RXRX-AH01 | No |
| Freeze Stat | RKPN/RLQN | RXRX-AM05 | Yes |

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

NOTES: ① If a particular unit is to be converted to operate on **LP (propane)** for elevations above 2000 ft. in Canada, the existing Natural Gas to LP Conversion Kits for the subject models already contain the necessary orifices and instructions to de-rate the input for 2000-4500 ft. Canadian applications.

② Economizer is designed for downflow or horizontal applications.

[] Designates Metric Conversions

THERMOSTATS



200-Series *
Programmable



300-Series *
Deluxe
Programmable

400-Series *
Special Applications/
Programmable

| Brand | Descriptor (3 Characters) | Series (3 Characters) | System (2 Characters) | Type (2 Characters) |
|-----------------------|------------------------------|--|---|-----------------------------------|
| RHC | - | TST | 213 | UN |
| RHC=Russell™ By Rheem | TST=Thermostat | 200=Programmable 300=Deluxe Programmable 400=Special Applications/ Programmable | GE=Gas/Electric UN=Universal (AC/HP/GE) MD=Modulating Furnace DF=Dual Fuel | SS=Single-Stage MS=Multi-Stage |

* Photos are representative. Actual models may vary.
For detailed thermostat match-up information.

Roofcurb Adapters

Old Models

MEDIUM CABINET (3 TON [11 kW])

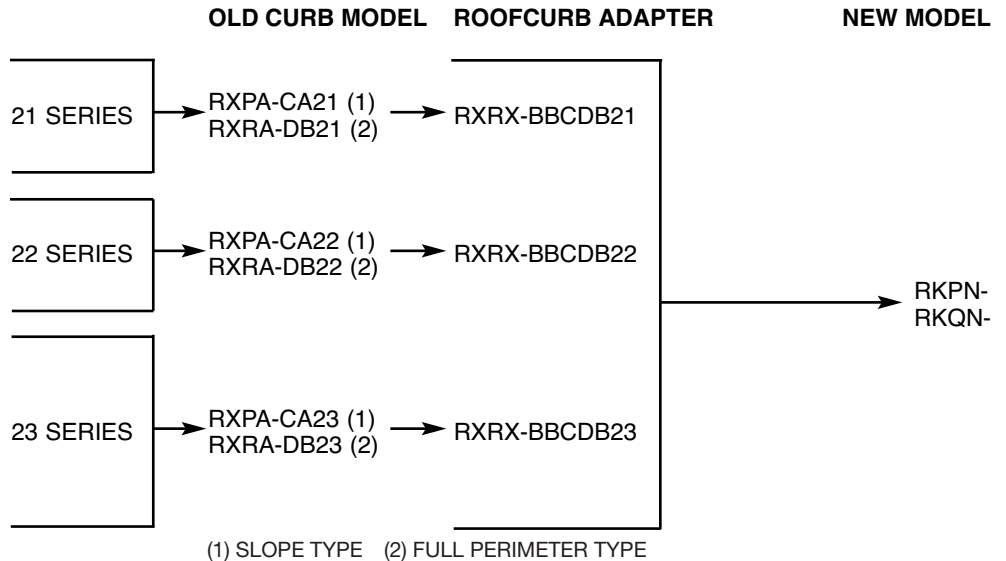
(-)SNC, (-)SND, (-)SNE
(-)RGE, (-)RGF, (-)RGG
(-)PNC, (-)PND

LARGE CABINET

(3-3½ TON [11-12 kW])
(-)RGE, (-)RGF, (-)RGG,
(-)RGH (3 TON [11 kW])

EXTRA LARGE CABINET

(3½-5 TON [12-18 kW])
(-)SNC, (-)SND, (-)SNE
(-)RGE, (-)RGF,
(-)RGG (4-5 TON [14-18 kW])
(-)PNC, (-)PND, (-)RGH
(3½, 4 TON [12-14 kW])



[] Designates Metric Conversions

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 |

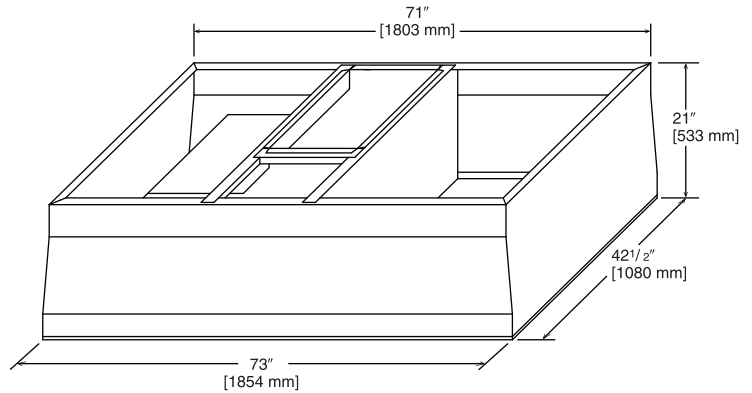
| ICP Models | | |
|--------------|--------------|--------------|
| Packaged G/E | Packaged AC | Packaged HP |
| PGE036 - 072 | PAE036 - 072 | PHE072 |
| PGH036 - 072 | PAH036 - 072 | PHH036 - 072 |
| PGS072 | PAS072 | PHS072 |
| RGS036 - 072 | RAS036 - 072 | RHS036 - 072 |

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

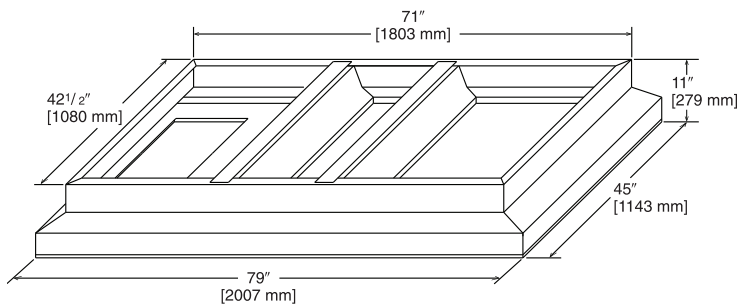
Trane to Russell™ By Rheem Roofcurb Adapter - RXXR-EACT35 Replaces Trane Models:

| 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

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] |

[] Designates Metric Conversions

TYPICAL INSTALLATION

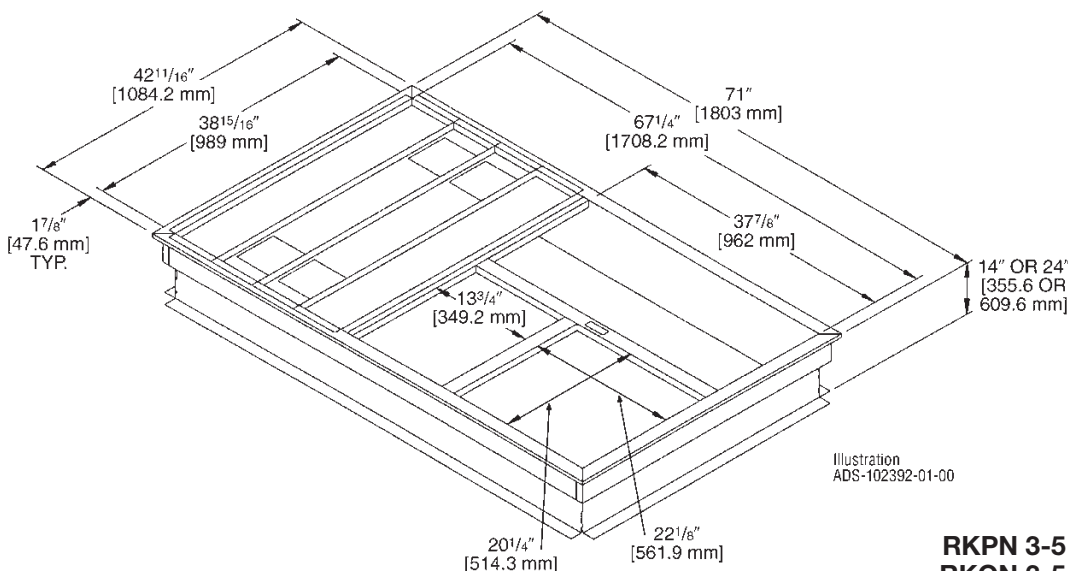
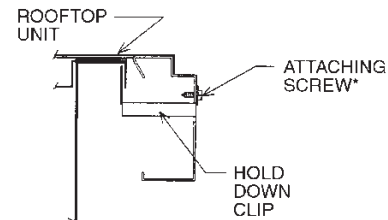
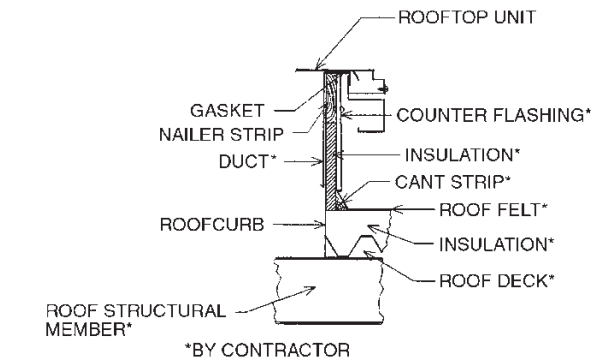
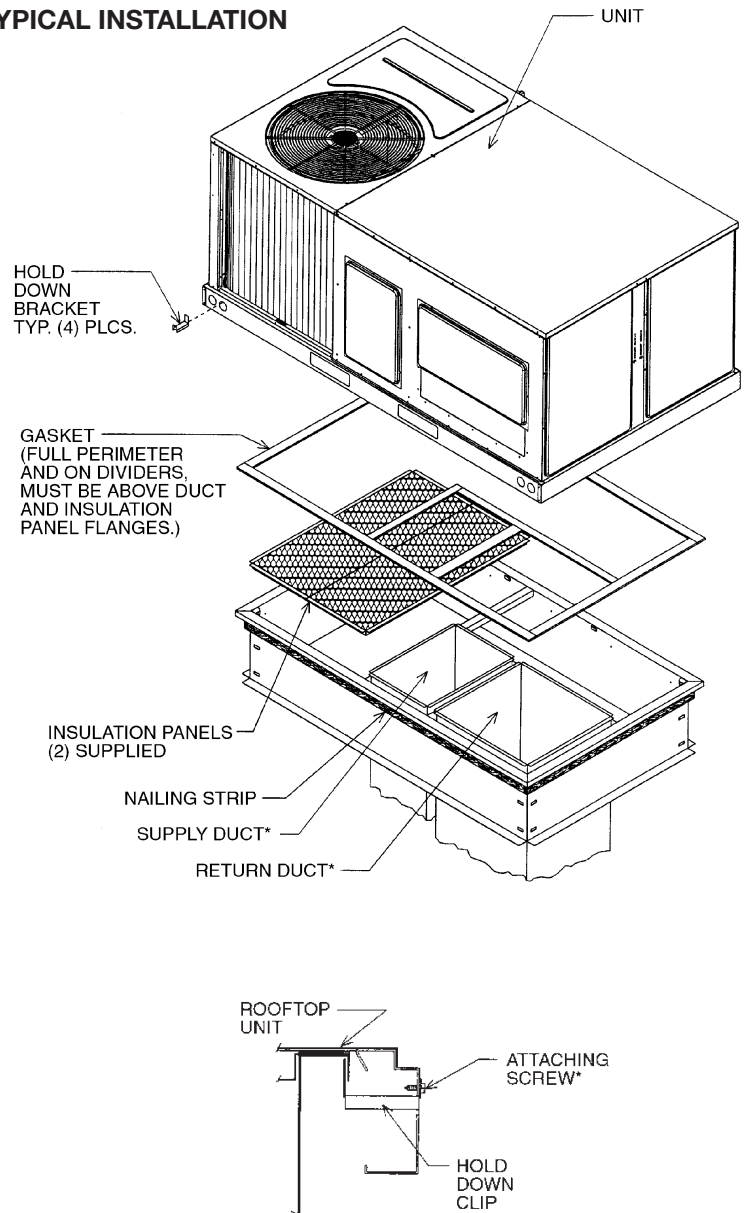


Illustration
ADS-102392-01-00

**ROOFCURB FOR
RKPN 3-5 TON [10.6-17.6 kW] MODELS
RKQN 3-5 TON [10.6-17.6 kW] MODELS**

ECONOMIZERS

AXRD-01RECAM3—3-5 Ton [10.6-17.6 kW] Models
 AXRD-01RECBM3—3-5 Ton [10.6-17.6 kW] Models

RXR-01AV04—3-5 Ton [10.6-17.6 kW] Models

RXR-01AR02—3-5 Ton [10.6-17.6 kW] Models

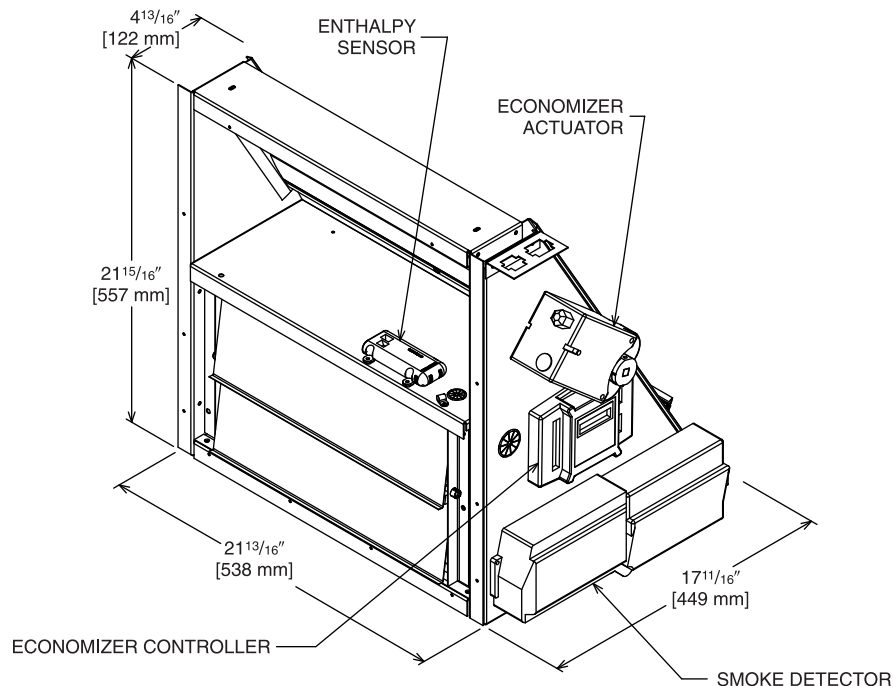
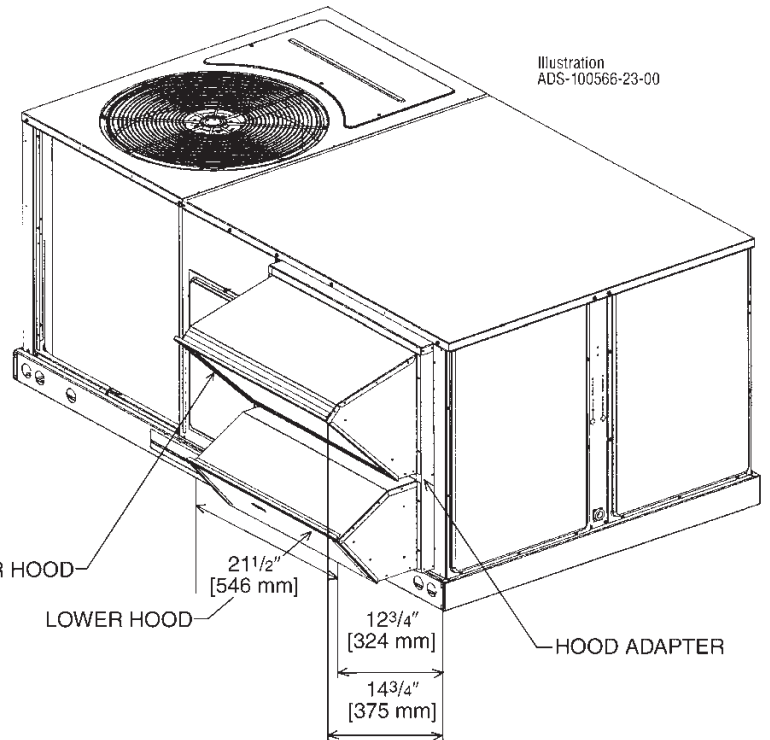
Single Enthalpy (with Barometric Relief)
 Single Enthalpy and Smoke Detector

Dual Enthalpy Kit

Optional CO₂ Sensor

- Features **Honeywell JADE™** Digital Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 12-pin Electrical Connections
- Pre-configuring—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy upgrade kit
- CO₂ Input Sensor Available (field installed)
- Economizer slips in complete for downflow or horizontal duct applications
- Field assembled hood ships with Economizer
- Field installed power exhaust available.

[] Designates Metric Conversions



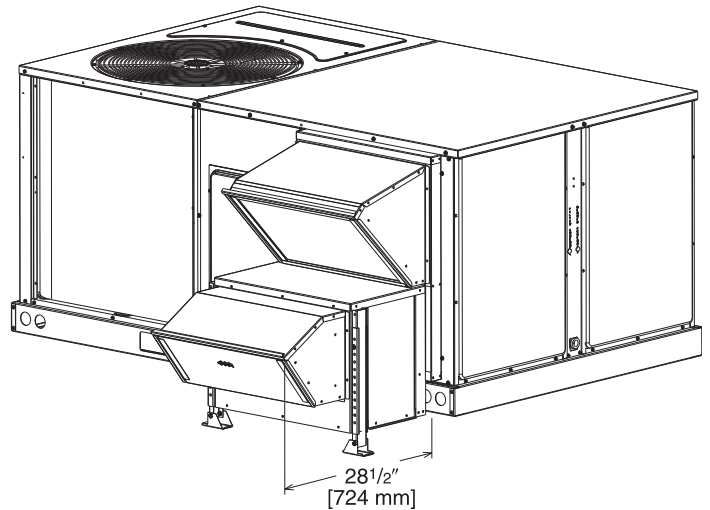
INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

AXRX-BGF04C—RKPN- 3-5 Ton [10.6-17.6 kW] Models
208/230 V, 1PH and 3PH, 60 Hz

AXRX-BGF04D—RKPN 3-5 Ton [10.6-17.6 kW] Models
460 V, 3PH, 60 Hz

AXRX-BGF04Y—RKPN 3-5 Ton [10.6-17.6 kW] Models
575V, 3PH, 60 Hz

- For **Honeywell** economizer.
- Downflow or horizontal applications.
- Requires separate 208-230 volt – 1 PH power supply with disconnect or requires separate 460V - 1 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 |

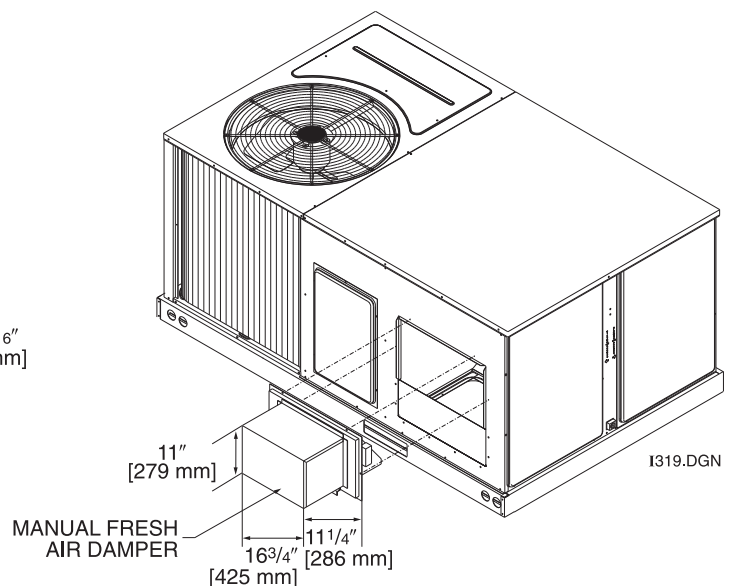
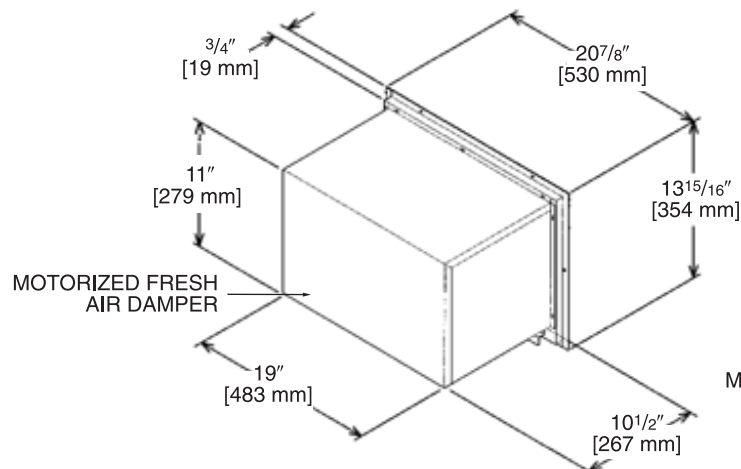
① CFM is at 0" W.C. external static pressure.

FRESH AIR DAMPER

RKPN 3-5 Ton [10.6-17.6 kW] Models
RKQN 3-5 Ton [10.6-17.6 kW] Models

AXRF-FBA1 (Manual)

AXRF-FBB1 (Motorized)



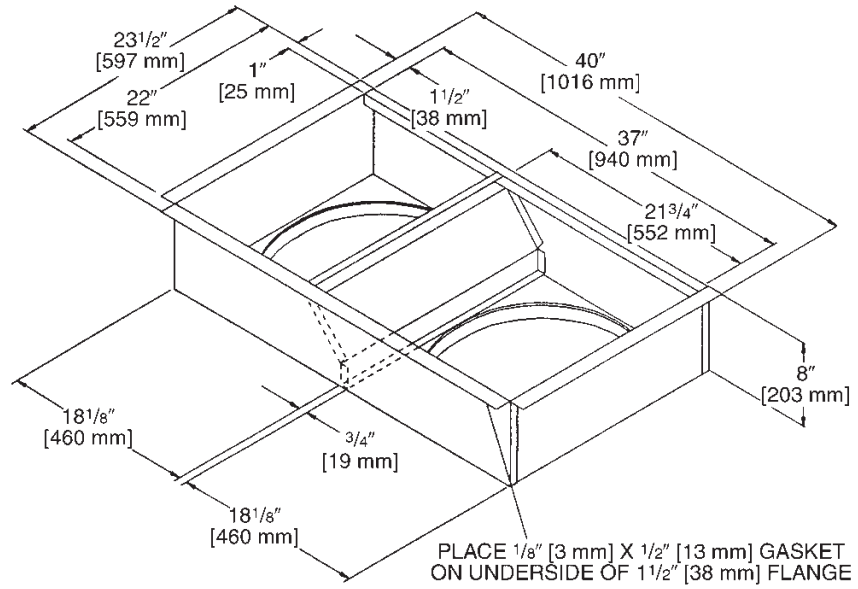
[] Designates Metric Conversions

**DUCT ADAPTERS (RKPN 3-5 Ton [10.6-17.6 kW] Models)
(RKQN 3-5 Ton [10.6-17.6 kW] Models)
Rectangular to Round Transitions (Downflow)**

RXMC-CB03 sizes available
18" [457 mm] fit all units.
Drops into and secures to
RXKG- Series Roofcurbs.

**For use with
Concentric Diffusers.**

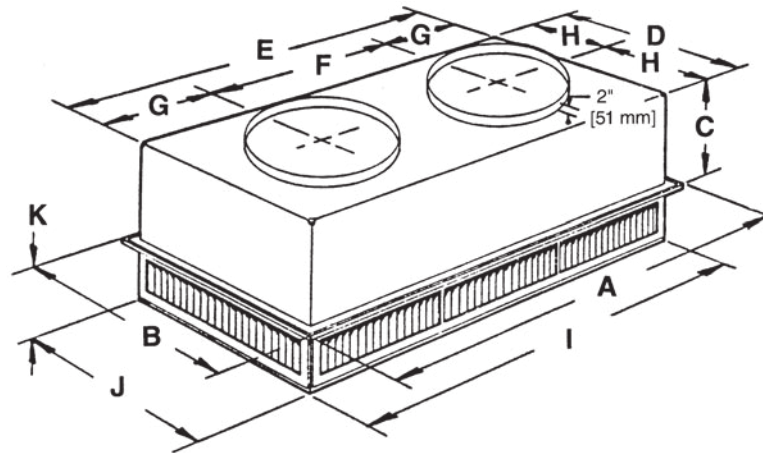
[] Designates Metric Conversions



SIDE DISCHARGE CONCENTRIC DIFFUSER

RXRN-FA60 (3 to 6 Ton [10.6 to 21.1 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. | CFM [L/s] | Static Pressure | Throw Feet | Neck Vel. | Jet Vel. | Noise Level |
|-----------|-------------|-----------------|------------|-----------|----------|-------------|
| RXRN-FA60 | 1000 [472] | .14 | 10-17 | 351 | 351 | 20 |
| | 1200 [566] | .17 | 11-18 | 421 | 421 | 20 |
| | 1400 [661] | .20 | 12-19 | 491 | 491 | 20 |
| | 1600 [755] | .24 | 12-20 | 561 | 561 | 20 |
| | 1800 [850] | .30 | 13-21 | 632 | 632 | 20 |
| | 2000 [944] | .36 | 14-23 | 702 | 702 | 20 |
| | 2200 [1038] | .40 | 16-25 | 772 | 772 | 20 |
| RXRN-FA65 | 2600 [1227] | .17 | 24-29 | 669 | 669 | 20 |
| | 2800 [1321] | .20 | 25-30 | 720 | 720 | 25 |
| | 3000 [1416] | .25 | 27-33 | 772 | 772 | 25 |
| | 3200 [1510] | .31 | 28-35 | 623 | 623 | 25 |
| | 3400 [1605] | .37 | 30-37 | 874 | 874 | 30 |

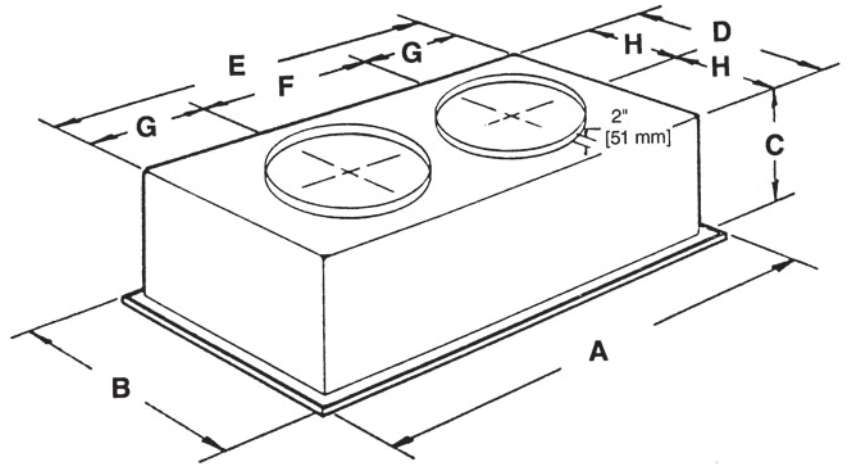
[] Designates Metric Conversions

FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA70 (3 to 6 Ton [10.6 to 21.1 kW] Models)

RXRN-FA75 (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 | Duct Size |
|-----------|---|--|--|-----------------|------------------|--|--|--|-----------|
| RXRN-FA70 | 47 ⁵ / ₈ " [1210 mm] | 23 ⁵ / ₈ " [600 mm] | 13 ¹ / ₂ " [343 mm] | 21" [533 mm] | 45" [1143 mm] | 22 ¹ / ₂ " [572 mm] | 11 ¹ / ₄ " [286 mm] | 10 ¹ / ₂ " [267 mm] | 18RD |
| RXRN-FA75 | 47 ⁵ / ₈ " [1210 mm] | 29 ⁵ / ₈ " [752 mm] | 16 ⁵ / ₈ " [442 mm] | 27" [666 mm] | 45" [1143 mm] | 22 ¹ / ₂ " [572 mm] | 11 ¹ / ₄ " [286 mm] | 13 ¹ / ₂ " [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 RKP/RKQ-A036 thru A060

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GAS 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 insulation 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 13.23.A. Thermostats

1. Thermostat must
 - a. have capability to energize 2 different stages of cooling, and 1 stage of heating.
 - b. must include capability for occupancy scheduling.

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.
4. The heat exchanger shall be controlled by an integrated furnace controller (IFC) microprocessor. See heat exchanger section of this specification.

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.
5. Heating section shall be provided with the following minimum protections.
 - a. High-temperature limit switches.
 - b. Induced draft motor pressure switch.
 - c. Flame rollout switch.
 - d. Flame proving controls.

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 gas combustion 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 gas and 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.
9. Gas Connections:
 - a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base gas-line location using a raised, embossed portion of the unit basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.

23 81 19.13.I. Gas Heat

1. General

- a. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
- b. Shall incorporate a direct-spark ignition system and redundant main gas valve.
- c. Heat exchanger design shall allow combustion process condensate to gravity drain; maintenance to drain the gas heat exchanger shall not be required.
- d. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.

2. The heat exchanger shall be controlled by an integrated furnace controller (IFC) microprocessor.

- a. IFC board shall notify users of fault using an LED (light-emitting diode).

3. Standard Heat Exchanger construction

- a. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gauge aluminum coated steel for corrosion resistance.
- b. Burners shall be of the in-shot type constructed of aluminum-coated steel.
- c. Burners shall incorporate orifices for rated heat output up to 2000 ft (610m) elevation. Additional accessory kits may be required for applications above 2000 ft (610m) elevation, depending on local gas supply conditions.

4. Optional Stainless Steel Heat Exchanger construction a. Use energy saving, direct-spark ignition system.

- b. Use a redundant main gas valve.
- c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
- d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
- e. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gauge type 409 stainless steel.
- f. Type 409 stainless steel shall be used in heat exchanger tubes and vestibule plate. g. Complete stainless steel heat exchanger allows for greater application flexibility.

5. Induced draft combustion motors and blowers

- a. Shall be a direct-drive, single inlet, forward-curved centrifugal type. b. Shall be made from steel with a corrosion-resistant finish.
- c. Shall have permanently lubricated sealed bearings. d. Shall have inherent thermal overload protection.
- e. Shall have an automatic reset feature.

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 6.5×10 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.

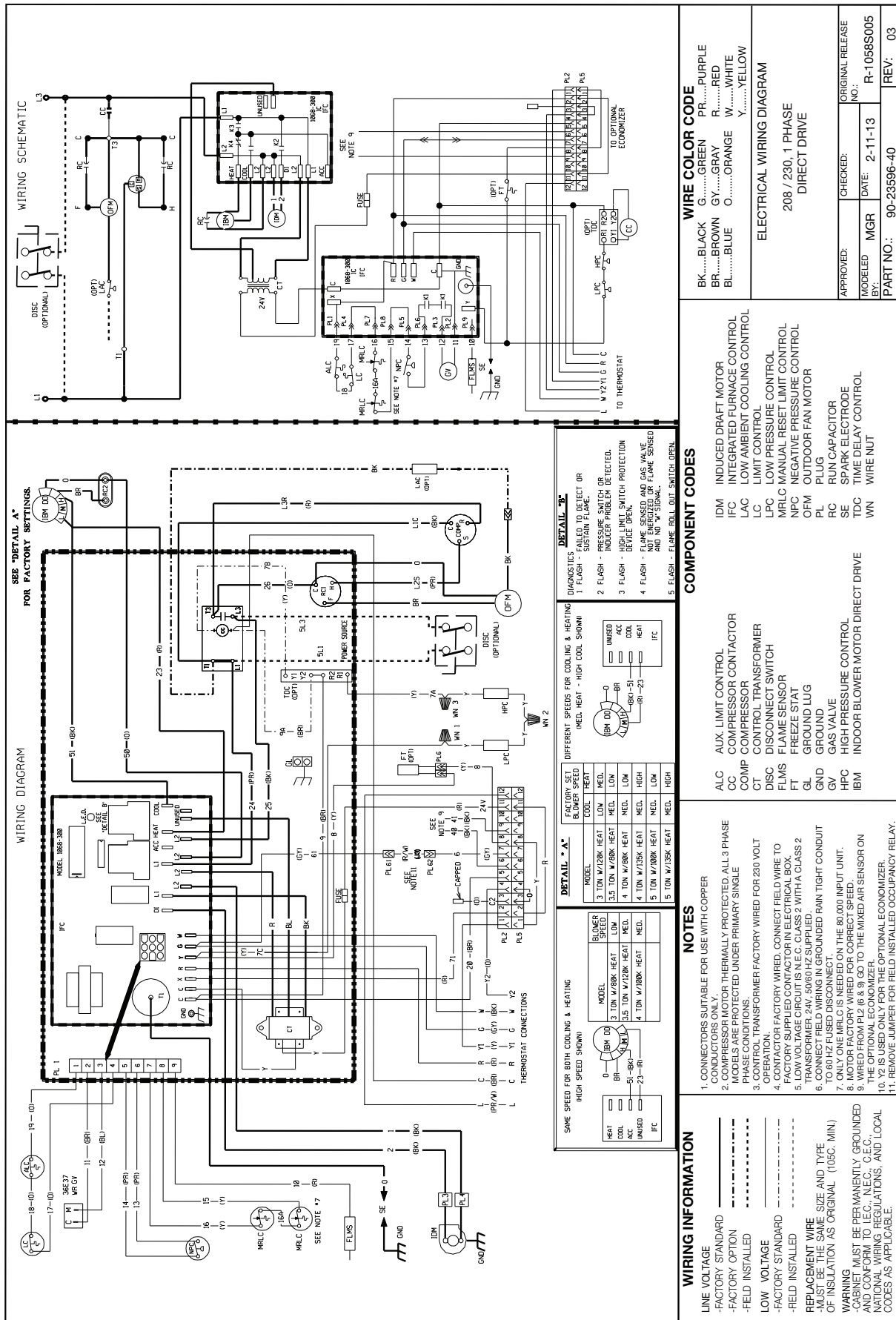
23 81 19.13.M. Evaporator Fan and Motor

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 CO₂ sensor input over a CO₂ 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 3rd 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 electro-mechanical 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 gas and 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 (CO₂) 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 CO₂ 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. Unit-Mounted, Non-Fused Disconnect Switch:
 - a. Switch shall be factory-installed, internally mounted.
 - b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff. c. Shall be accessible from outside the unit.
 - d. Shall provide local shutdown and lockout capability.
15. Universal Gas Conversion Kit:
 - a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit to operate from 2000-7000 ft (610 to 2134m) elevation with natural gas or from 0-7000 ft (90-2134m) elevation with liquefied propane.
16. Liquid Propane (LP) Conversion Kit
 - a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610m) elevation.
17. Flue Discharge Deflector:
 - a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
 - b. Deflector shall be defined as a “natural draft” device by the National Fuel and Gas (NFG) code.



WIRE COLOR CODE

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

ELECTRICAL WIRING DIAGRAM

208 / 230, 1 PHASE
DIRECT DRIVE

| | | |
|-------------|-------------|-----------------------|
| APPROVED: | CHECKED: | ORIGINAL RELEASE NO.: |
| MODELED BY: | MGR DATE: | R-1058S005 |
| PART NO.: | 90-23596-40 | REV: 03 |

COMPONENT CODES

| | |
|------|-----------------------------|
| IDM | INDUCED DRAFT MOTOR |
| IFC | INTEGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |
| LC | LIMIT CONTROL |
| LPC | LOW PRESSURE CONTROL |
| MRLC | MANUAL RESET LIMIT CONTROL |
| NPC | NEGATIVE PRESSURE CONTROL |
| OFM | OUTDOOR FAN MOTOR |
| PL | PLUG |
| RC | RUN CAPACITOR |
| SE | SPARK ELECTRODE |
| TDC | TIME DELAY CONTROL |
| WIN | WIRE NUT |

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 FACTORY WIRED FOR 230 VOLT OPERATION.
- CONTACTOR OR FACTORY WIRED. CONNECT FIELD WIRE TO TERMINAL 1 ON CONTACTOR. CONTACTOR WIRE TO CLASS 2 TRANSFORMER 24V, 50/60 HZ SUPPLIED.
- LOW VOLTAGE CIRCUIT IS IN CLASS 2 WITH A CLASS 2 TRANSFORMER 24V, 50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 90,000 INPUT UNIT.
- MOTOR FACTORY WIRED FOR CORRECT SPEED.
- WIRE FROM PL2 (8 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y IS RESERVED FOR THE OPTIONAL ECONOMIZER.
- REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

WIRING INFORMATION

LINE VOLTAGE

- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

LOW VOLTAGE

- FACTORY STANDARD
- FIELD INSTALLED
- FIELD INSTALLED

REPLACEMENT WIRE

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

DETAIL A

| MODEL | COOL | HEAT |
|--------------------|------|------|
| 3 TON W/20K HEAT | LOW | MED. |
| 3.5 TON W/20K HEAT | LOW | MED. |
| 4 TON W/20K HEAT | MED. | LOW |
| 4 TON W/135K HEAT | MED. | HIGH |
| 5 TON W/100K HEAT | MED. | LOW |
| 5 TON W/135K HEAT | MED. | HIGH |

DETAIL B

DIAGNOSTICS FAILED TO DETECT OR SUSTAIN FLAME.

- FLASH - PRESSURE SWITCH OR PRESSURE SWITCH DEVICE OPEN.
- FLASH - MANUAL LIMIT SWITCH PROTECTION DEVICE OPEN.
- FLASH - FLAME SENSED AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO "W" SIGNAL.
- FLASH - FLAME ROLL OUT SWITCH OPEN.

DETAIL C

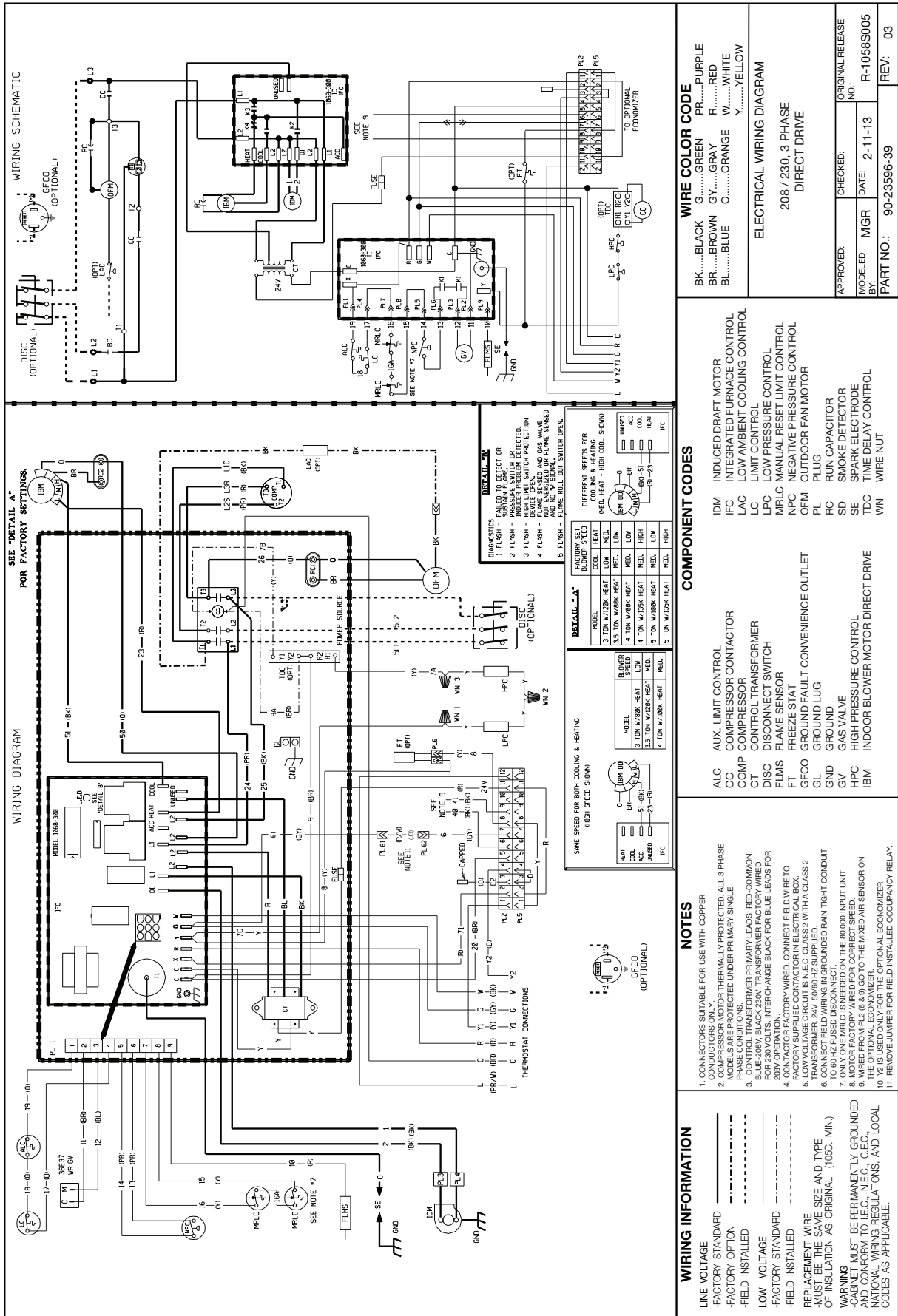
DIFFERENT SPEEDS FOR COOLING & HEATING

| MODEL | COOL | HEAT |
|--------------------|------|------|
| 3 TON W/20K HEAT | LOW | MED. |
| 3.5 TON W/20K HEAT | LOW | MED. |
| 4 TON W/20K HEAT | MED. | LOW |
| 4 TON W/135K HEAT | MED. | HIGH |
| 5 TON W/100K HEAT | MED. | LOW |
| 5 TON W/135K HEAT | MED. | HIGH |

DETAIL D

SHAKE SPEED FOR BOTH COOLING & HEATING (HIGH SPEED SHOWN)

| MODEL | COOL | HEAT |
|--------------------|------|------|
| 3 TON W/20K HEAT | LOW | MED. |
| 3.5 TON W/20K HEAT | LOW | MED. |
| 4 TON W/20K HEAT | MED. | LOW |
| 4 TON W/135K HEAT | MED. | HIGH |
| 5 TON W/100K HEAT | MED. | LOW |
| 5 TON W/135K HEAT | MED. | HIGH |



WIRING INFORMATION

LINE VOLTAGE _____
 -FACTORY STANDARD _____
 -FACTORY OPTION _____
 -FIELD INSTALLED _____
 -FIELD INSTALLED _____
 -FACTORY STANDARD _____
 -FACTORY STANDARD _____
 -FIELD INSTALLED _____
 -FIELD INSTALLED _____
 REPLACEMENT WIRE _____
 MUST BE THE SAME SIZE AND TYPE _____
 OF INSULATION AS ORIGINAL (105C, MIN.) _____
 WARNING: 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. CONDUITS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. BLUE 288V, BLACK 230V, TRANSFORMER FACTORY WIRED FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 288V OPERATION.
4. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO TRANSFORMER 24V, 50/60 HZ SUPPLIED.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER 24V, 50/60 HZ SUPPLIED.
6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO #6-1/2 USED DISCONNECT ON THE #6000 INPUT UNIT.
7. MOTOR FACTORY WIRED FOR CORRECT SPEED.
8. WIRE FROM PL2 (8 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
9. THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
11. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

COMPONENT CODES

- | | |
|-------------|----------------------------------|
| ALC | AUX. LIMIT CONTROL |
| CC | COMPRESSOR CONTACTOR |
| COMP | COMPRESSOR |
| CT | CONTROL TRANSFORMER |
| DISC | DISCONNECT SWITCH |
| FLMS | FLAME SENSOR |
| FREEZE STAT | FREEZE STAT |
| GFCO | GROUND FAULT CONVENIENCE OUTLET |
| GL | GROUND LUG |
| GND | GROUND |
| GV | GAS VALVE |
| HPC | HIGH PRESSURE CONTROL |
| IBM | INDOOR BLOWER MOTOR DIRECT DRIVE |
| IDM | INDUCED DRAFT MOTOR |
| IFC | INTEGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |
| LC | LIMIT CONTROL |
| LPC | LOW PRESSURE CONTROL |
| MRLC | MANUAL RESET LIMIT CONTROL |
| NPC | NEGATIVE PRESSURE CONTROL |
| OFM | OUTDOOR FAN MOTOR |
| PL | PLUG |
| RC | RUN CAPACITOR |
| SD | SMOKE DETECTOR |
| SE | SPARK ELECTRODE |
| TDC | TIME DELAY CONTROL |
| WIN | WIRE NUT |

WIRE COLOR CODE

- | | | | | | |
|---------|-------|---------|--------|---------|--------|
| BK..... | BLACK | GR..... | GREEN | PR..... | PURPLE |
| BR..... | BROWN | GY..... | GRAY | RD..... | RED |
| BL..... | BLUE | OR..... | ORANGE | WH..... | WHITE |
| | | Y..... | YELLOW | | |

ELECTRICAL WIRING DIAGRAM

208 / 230, 3 PHASE DIRECT DRIVE

APPROVED: _____

MODELED: _____

BY: _____

CHECKED: _____

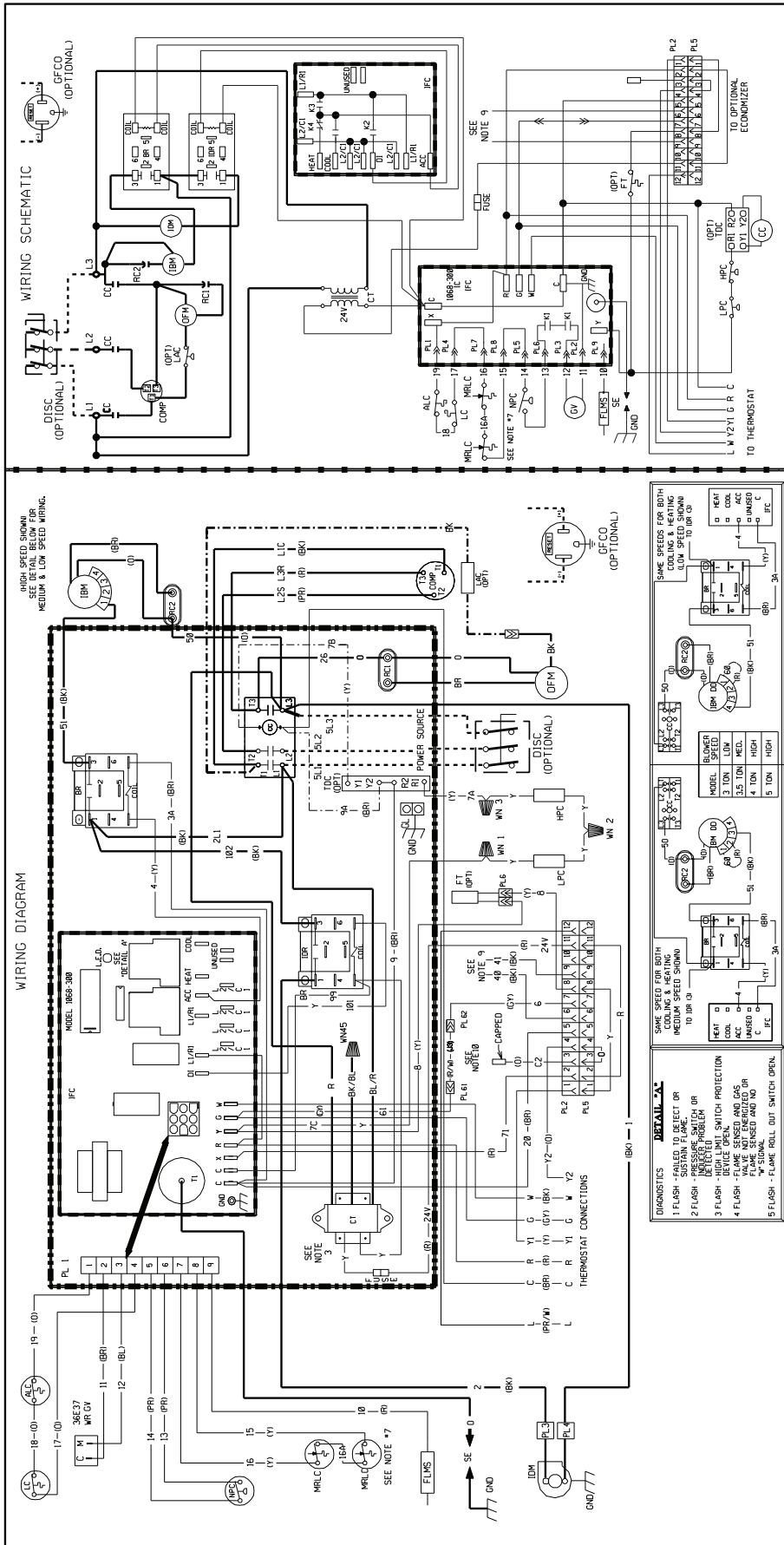
NO.: _____

DATE: 2-11-13

R-1058S005

PART NO.: 90-23596-39

REV.: 03



WIRING SCHEMATIC

DISC (OPTIONAL)

WIRING SCHEMATIC

TO THERMOSTAT

TO OPTIONAL ECONOMIZER

WIRE COLOR CODE

BK.....BLACK G.....GREEN PR.....PURPLE

BR.....BROWN GV.....GRAY R.....RED

BL.....BLUE O.....ORANGE W.....WHITE

Y.....YELLOW

ELECTRICAL WIRING DIAGRAM

460, 3 PHASE, 60 HZ

DIRECT DRIVE

ROOFTOP

APPROVED: CHECKED: ORIGINAL RELEASE NO.:

MODELED: MGR DATE: 2-11-13 R-10585005

BY:

PART NO.: 90-23596-42 **REV:** 03

COMPONENT CODES

IDM INDUCED DRAFT MOTOR

IDR INDUCED DRAFT RELAY

IFC INTEGRATED FURNACE CONTROL

LAC LOW AMBIENT COOLING CONTROL

LC LIMIT CONTROL

LPC LOW PRESSURE CONTROL

MRLC MANUAL RESET LIMIT CONTROL

NPC NEGATIVE PRESSURE CONTROL

OFM OUTDOOR FAN MOTOR

PL PLUG

PT POWER TRANSFORMER

RC RUN CAPACITOR

SD SMOKE DETECTOR

SE TIME DELAY CONTROL

TDC TIME DELAY CONTROL

WN WIRE NUT

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.

2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.

3. POWER TRANSFORMER PRIMARY LEADS: BLUE, COMMON; BLACK-480V, 60 HZ / 500V, 50 HZ, RED-575V, 60 HZ, 7415V 50 HZ.

4. CONTACTOR FACTORY WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.

5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V, 50/60 HZ SUPPLIED.

6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO GAS VALVE.

7. GAS VALVE MUST BE DISCONNECTED ON THE 90,000 INPUT UNIT.

8. WIRE FROM PL2 (8 & 9) GO TO THE MARKED AIR SENSOR ON THE OPTIONAL ECONOMIZER.

9. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

10. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

WIRING INFORMATION

LINE VOLTAGE

-FACTORY STANDARD

-FIELD INSTALLED

LOW VOLTAGE

-FACTORY STANDARD

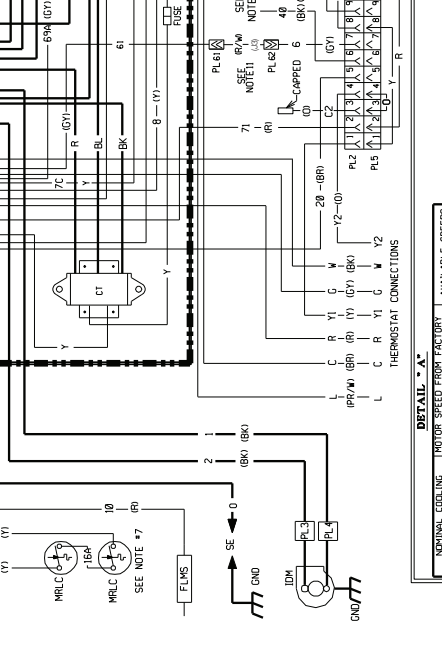
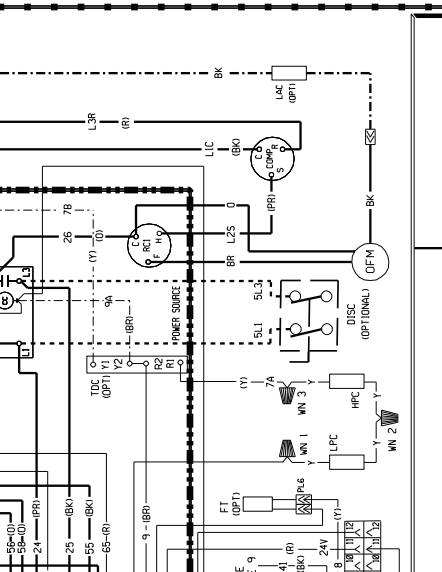
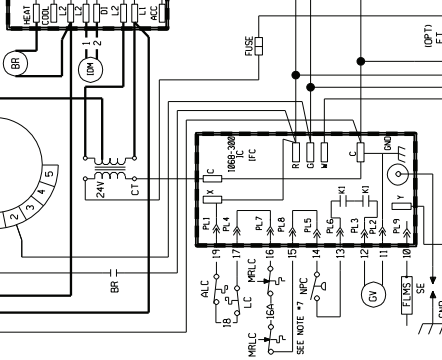
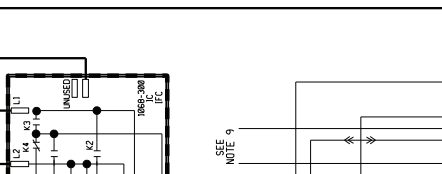
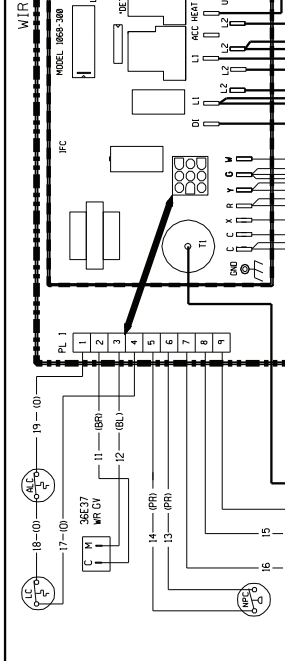
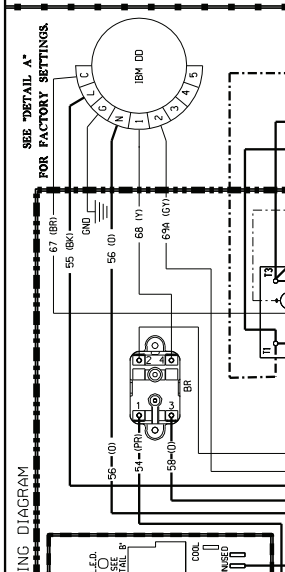
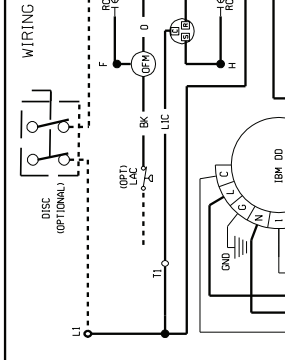
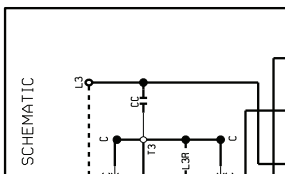
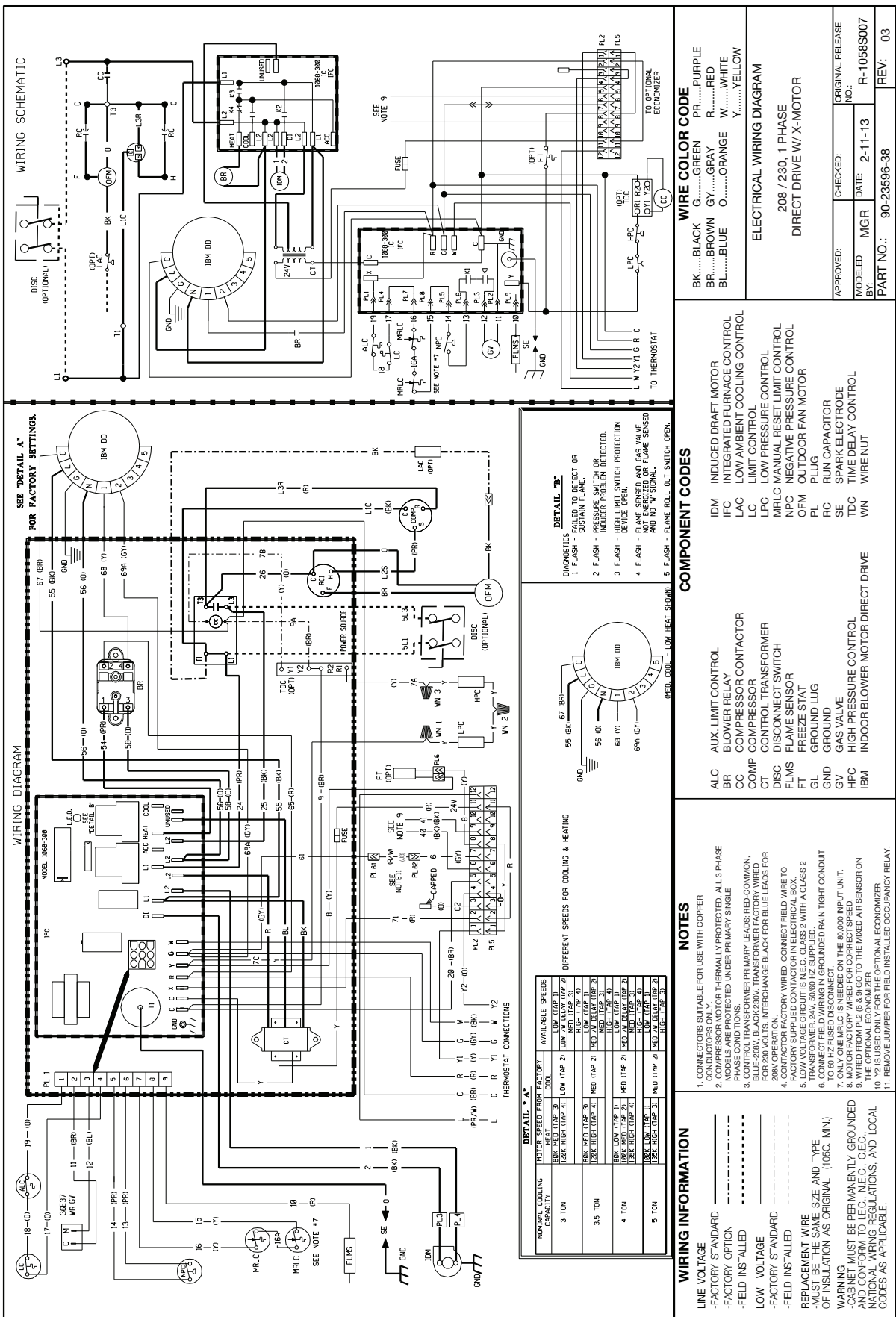
-FIELD INSTALLED

REPLACEMENT WIRE

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

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
BR.....BROWN
BL.....BLUE
G.....GREEN
GY.....GRAY
O.....ORANGE
R.....RED
W.....WHITE
Y.....YELLOW

ELECTRICAL WIRING DIAGRAM

208 / 230, 1 PHASE
DIRECT DRIVE W/ X-MOTOR

APPROVED: _____
MODELED MGR _____
BY _____

CHECKED: _____
DATE: 2-11-13
NO.: R-10568S007

PART NO.: 90-23596-38
REV: 03

COMPONENT CODES

IDM INDUCED DRAFT MOTOR
IFC INTEGRATED FURNACE CONTROL
LAC LOW AMBIENT COOLING CONTROL
LC LIMIT CONTROL
LPC LOW PRESSURE CONTROL
MRLC MANUAL RESET LIMIT CONTROL
NPC NEGATIVE PRESSURE CONTROL
OFM OUTDOOR FAN MOTOR
PL PLUG
RC RUN CAPACITOR
SE SPARK ELECTRODE
TDC TIME DELAY CONTROL
WN WIRE NUT

DIAGNOSTICS

1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME.
2 FLASH - INSUFFICIENT AIR OR EXCESSIVE FURNACE OR DETECTED.
3 FLASH - HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4 FLASH - FLAME SENSED AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO "S" SIGNAL.
5 FLASH - FLAME REL-GUL SWITCH OPEN.

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE OPERATION.
3. CONTROL TRANSFORMER PRIMARY LEADS- RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRE FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V OPERATION.
4. FACTORY WIRE TO FACTORY WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V, 50/60 HZ SUPPLIED.
6. TO 180 HZ FLUED DISCONNECT.
7. ONLY ONE MRLC IS NEEDED ON THE 80,000 INP/L UNIT.
8. MOTOR FACTORY WIRE FOR CORRECT SPEED.
9. WIRE FROM P12 (8 & 9) TO THE MIXED AIR SENSOR ON 208V/230V.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
11. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

WIRING INFORMATION

LINE VOLTAGE _____
-FACTORY STANDARD _____
-FACTORY OPTION _____
-FIELD INSTALLED _____
LOW VOLTAGE _____
-FACTORY STANDARD _____
-FIELD INSTALLED _____
REPLACEMENT WIRE _____
-MUST BE THE SAME SIZE AND TYPE _____
OF INSULATION AS ORIGINAL (10SC, 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.

DETAIL - A*

NOMINAL COOLING CAPACITY

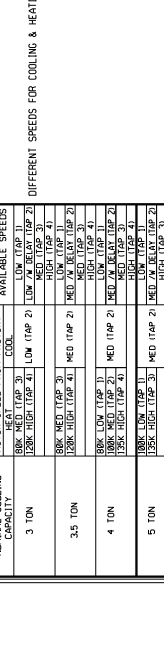
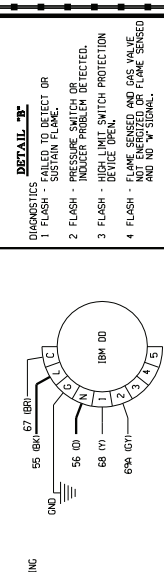
| | | | | |
|---------|-----------------|-------------|-------------------|--------------|
| 3 TON | 38K MED (TAP 3) | LOW (TAP 2) | LOW / MED (TAP 2) | HIGH (TAP 4) |
| 3.5 TON | 38K MED (TAP 3) | LOW (TAP 2) | MED (TAP 2) | HIGH (TAP 4) |
| 4 TON | 38K MED (TAP 3) | LOW (TAP 2) | MED (TAP 2) | HIGH (TAP 4) |
| 5 TON | 38K MED (TAP 3) | LOW (TAP 2) | MED (TAP 2) | HIGH (TAP 4) |

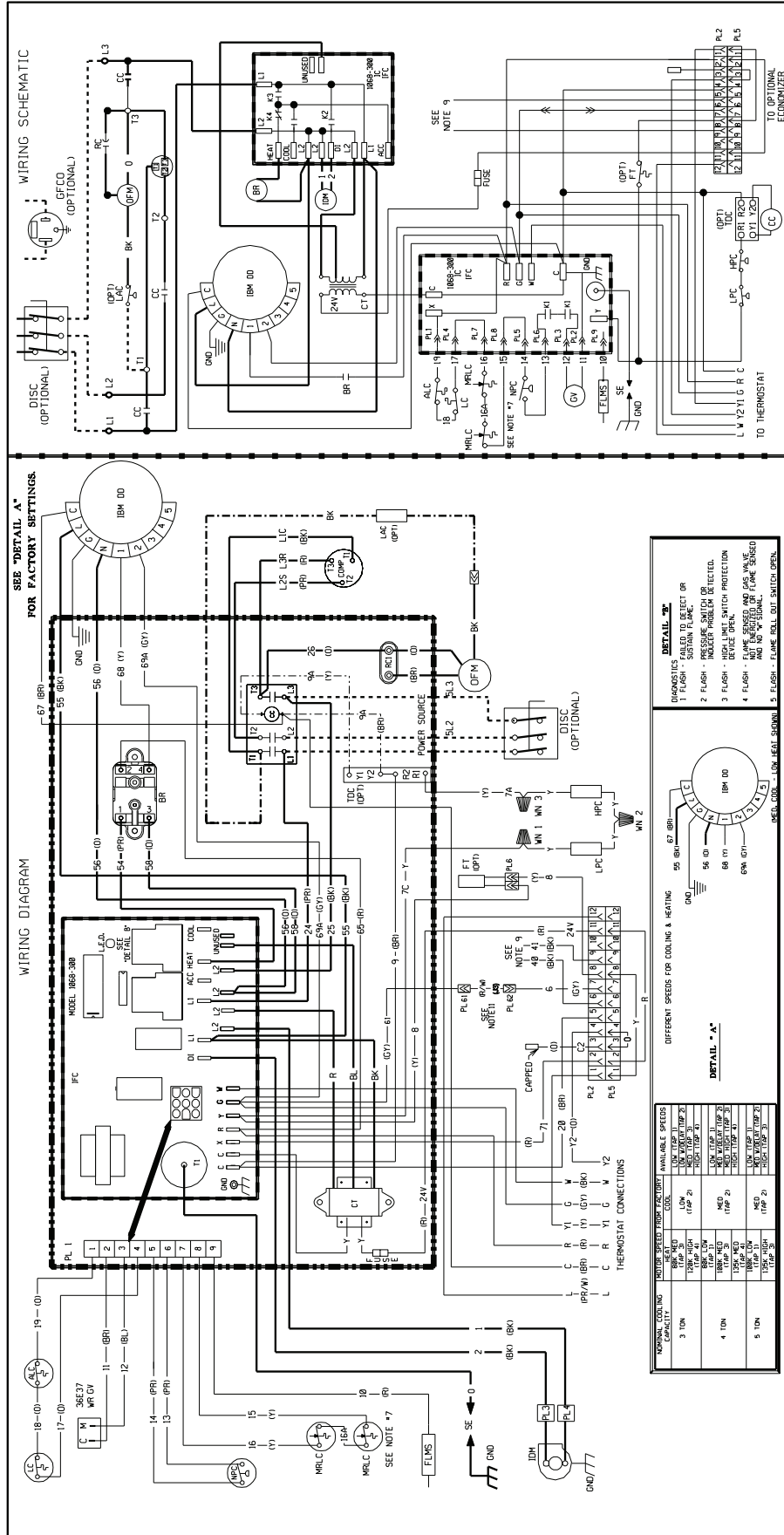
AVAILABLE SPEEDS

DETAIL - B*

DIFFERENT SPEEDS FOR COOLING & HEATING

| | | | |
|------|-------------|-------------------|--------------|
| COOL | LOW (TAP 2) | LOW / MED (TAP 2) | HIGH (TAP 4) |
| HEAT | LOW (TAP 2) | MED (TAP 2) | HIGH (TAP 4) |





WIRE COLOR CODE

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

ELECTRICAL WIRING DIAGRAM

208 / 230, 3 PHASE
 DIRECT DRIVE W/ X-MOTOR

APPROVED: _____ CHECKED: _____ ORIGINAL RELEASE NO.: R-1058S007
 MODELED MGR DATE: 2-11-13
 BY: _____
 PART NO.: 90-23596-44 REV: 03

COMPONENT CODES

IDM INDUCED DRAFT MOTOR
 IFC INTEGRATED FURNACE CONTROL
 LAC LOW AMBIENT COOLING CONTROL
 LC LIMIT CONTROL
 LPC LOW PRESSURE CONTROL
 MRLC MANUAL RESET LIMIT CONTROL
 NPC NEGATIVE PRESSURE CONTROL
 OFM OUTDOOR FAN MOTOR
 PL PLUG
 RC RUN CAPACITOR
 SE SPARK ELECTRODE
 TDC TIME DELAY CONTROL
 WN WIRE NUT

AUX. LIMIT CONTROL
 BLOWER RELAY
 COMPRESSOR CONTACTOR
 CONTROL TRANSFORMER
 FLAME SENSOR
 FREEZE STAT
 GROUND LUG
 GROUND
 GAS VALVE
 HIGH PRESSURE CONTROL
 INDOOR BLOWER MOTOR DIRECT DRIVE

NOTES

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. ALL OTHERS THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS: RED-COMMON; 208V OPERATION. INTERCHANGE BROWN FOR BLUE LEAD/STON.
- FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
- CONNECTOR FACTORY WIRE TO GROUND RAIN TIGHT CONDUIT WITH A CLASS 2 TRANSFORMER 24V, 50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUND RAIN TIGHT CONDUIT TO 60 HZ FLUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 60,000 INPUT UNIT.
- WIRING FROM PL2 & 8 TO GO TO THE WIKED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
- REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

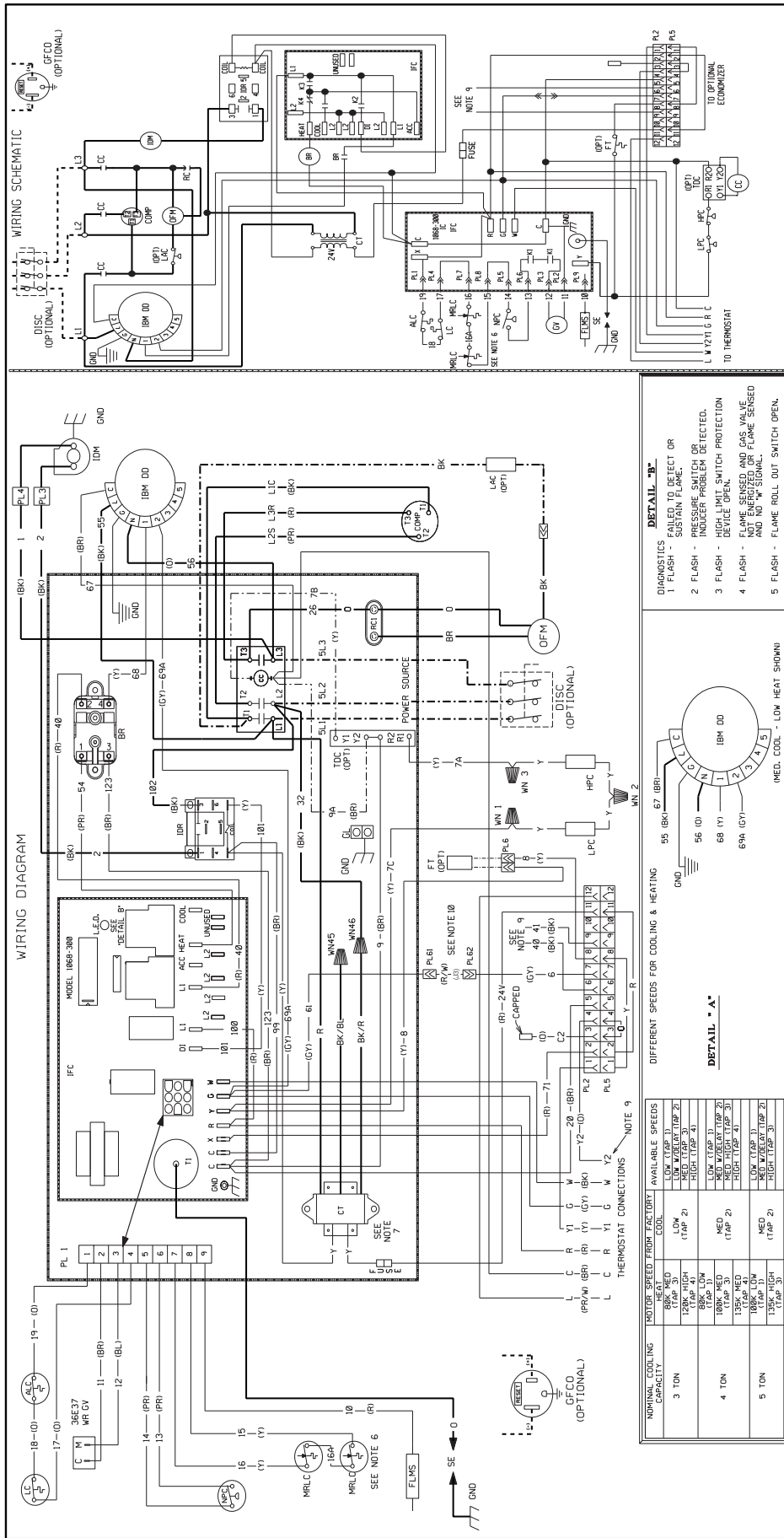
WIRING INFORMATION

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

LOW VOLTAGE _____
 -FACTORY STANDARD _____
 -FIELD INSTALLED _____

REPLACEMENT WIRE _____
 -MUST BE THE SAME SIZE AND TYPE _____
 -OF INSULATION AS ORIGINAL (166C, MIN)

WARNING
 -CABINET MUST BE PERMANENTLY GROUNDDED _____
 -CONNECT MUST BE TO THE GROUNDING _____
 -NATIONAL WIRING REGULATIONS, AND LOCAL _____
 CODES AS APPLICABLE.



WIRING SCHEMATIC

WIRING DIAGRAM

| NOMINAL COOLING CAPACITY | MOTOR SPEED FROM FACTORY | | |
|--------------------------|--------------------------|--------------|--------------|
| | HEAT (TAP 1) | COOL (TAP 2) | LOW (TAP 3) |
| 3 TON | 120% HIGH (TAP 1) | LOW (TAP 2) | LOW (TAP 3) |
| | 100% MED (TAP 2) | MED (TAP 2) | MED (TAP 3) |
| | 80% LOW (TAP 3) | HIGH (TAP 4) | HIGH (TAP 4) |
| 4 TON | 100% MED (TAP 2) | MED (TAP 2) | MED (TAP 3) |
| | 135% MED (TAP 3) | HIGH (TAP 4) | HIGH (TAP 4) |
| | 180% LOW (TAP 3) | MED (TAP 2) | MED (TAP 3) |
| 5 TON | 135% MED (TAP 3) | HIGH (TAP 4) | HIGH (TAP 4) |
| | 180% LOW (TAP 3) | MED (TAP 2) | MED (TAP 3) |
| | 150% TAP 3) | HIGH (TAP 4) | HIGH (TAP 4) |

DETAIL - B*

DIAGNOSTICS - FAILED TO DETECT OR SUSTAIN FLAME.

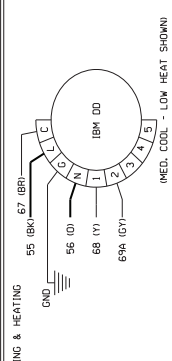
1 FLASH - INDUCED DRAFT MOTOR

2 FLASH - INTEGRATED FURNACE CONTROL

3 FLASH - HIGH LIMIT SWITCH PROTECTION

4 FLASH - FLAME SENSED AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO W SIGNAL.

5 FLASH - FLAME ROLL OUT SWITCH OPEN.



DETAIL - A*

DIFFERENT SPEEDS FOR COOLING & HEATING

WIRE COLOR CODE

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

ELECTRICAL WIRING DIAGRAM

460V, X-DRIVE MOTOR
 DIRECT DRIVE BLOWER

APPROVED: _____ CHECKED: _____ ORIGINAL RELEASE NO.: _____
 MODELED MGR DATE: 2-11-13 R-1068S007
 BY: _____
 PART NO.: 90-235596-46 REV: 04

COMPONENT CODES

ALC AUX. LIMIT CONTROL
 BC BLOWER CONTACTOR
 CC COMPRESSOR CONTACTOR
 COMP COMPRESSOR
 CT CONTROL TRANSFORMER
 DISC DISCONNECT SWITCH
 FLMS FLAME SENSOR
 FT FREEZE STAT
 GFCC GROUND FAULT CONVENIENCE OUTLET
 GL GROUND LUG
 GND GROUND
 GV GAS VALVE
 HPC HIGH PRESSURE CONTROL
 IBM INDOOR BLOWER MOTOR DIRECT DRIVE

IDM INDUCED DRAFT MOTOR
 IDR INDUCED DRAFT RELAY
 IFC INTEGRATED FURNACE CONTROL
 LAC LOW AMBIENT COOLING CONTROL
 LC LIMIT CONTROL
 LPC LOW PRESSURE CONTROL
 MRLC MANUAL RESET LIMIT CONTROL
 NPC NEGATIVE PRESSURE CONTROL
 OFM OUTDOOR FAN MOTOR
 PL PLUG
 RC RUN CAPACITOR
 SD SMOKE DETECTOR
 SE SPARK ELECTRODE
 TDC TIME DELAY CONTROL
 WN WIRE NUT

NOTES

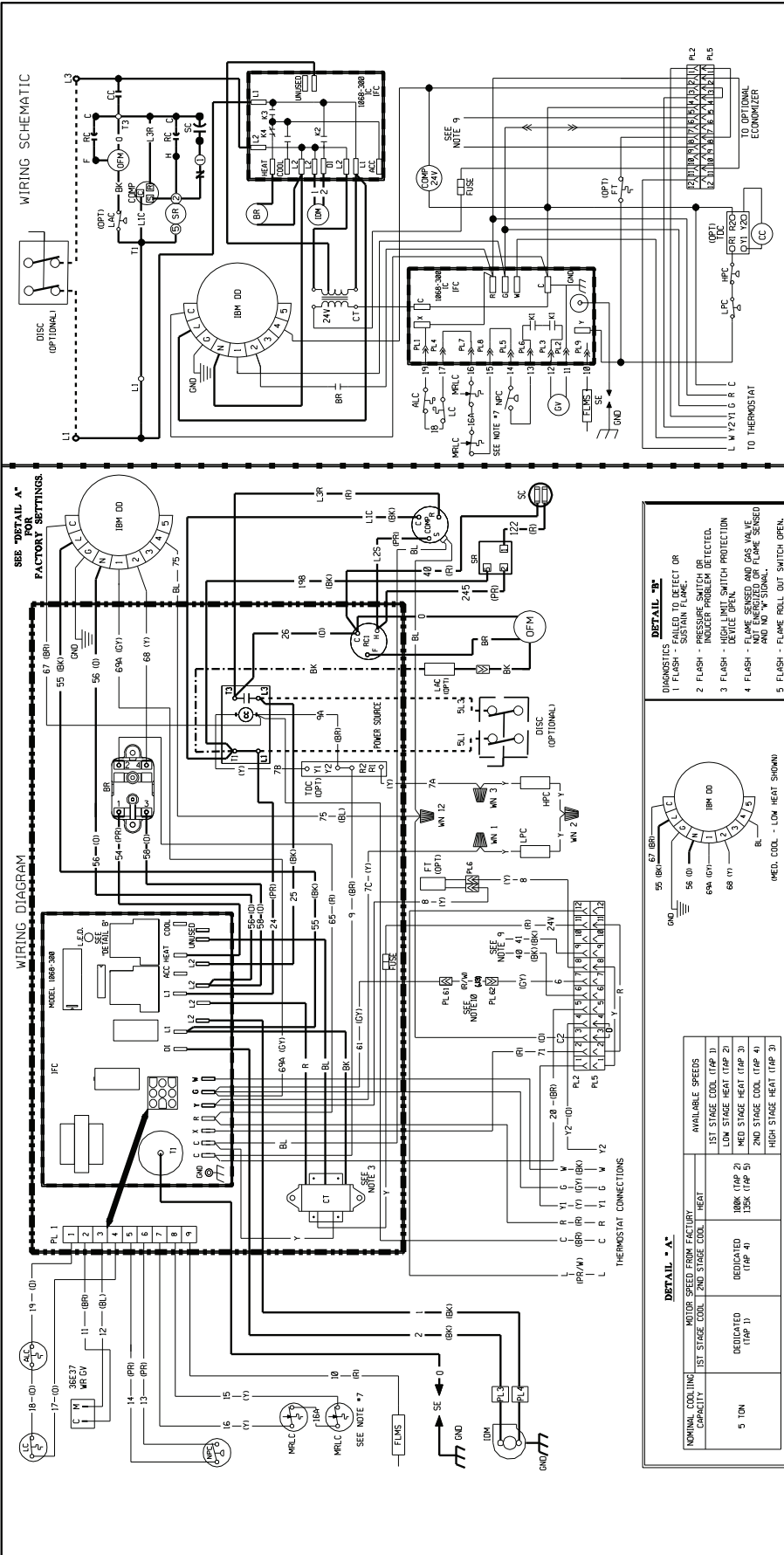
- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE.
- FACTORY WIRING TO FACTORY WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUND RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
- CONTROL TRANSFORMER PRIMARY LEADS: BLUE-COMMON; BK/RED-460V, 60 HZ; 380V, 50 HZ; RED-D-575V, 60 HZ.
- WIRING FROM PL 2, 7 & 8 GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
- REMOVE JUMPER FOR FIELD IF INSTALLED OCCUPANCY RELAY.

WIRING INFORMATION

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

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

WARNING
 -CABINET MUST BE PERMANENTLY GROUNDING _____
 -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 | G.....GREEN | PR.....PURPLE |
| BR.....BROWN | GY.....GRAY | R.....RED |
| BL.....BLUE | O.....ORANGE | W.....WHITE |
| | Y.....YELLOW | |

ELECTRICAL WIRING DIAGRAM

208 / 230, 1 PHASE
DIRECT DRIVE W/ X-MOTOR
2-STAGE

APPROVED: _____
MODELED MGR _____
BY: _____

CHECKED: _____
DATE: 4-3-13
NO.: R-1058S005

PART NO.: 90-23596-47
REV: 04

COMPONENT CODES

| | |
|------|-----------------------------|
| IDM | INDUCED DRAFT MOTOR |
| IFC | INTEGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |
| LPC | LOW LIMIT CONTROL |
| LPC | LOW PRESSURE CONTROL |
| MRLC | MANUAL RESET LIMIT CONTROL |
| NPC | NEGATIVE PRESSURE CONTROL |
| OFM | OUTDOOR FAN MOTOR |
| PL | PLUG |
| RC | RUN CAPACITOR |
| SE | SPARK ELECTRODE |
| SR | START RELAY |
| TDC | TIME DELAY CONTROL |
| WN | WIRE NUT |

DIAGNOSTICS

- 1 FLASH - FLAME OUT DETECT OR SUSTAIN FLAME.
- 2 FLASH - PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
- 3 FLASH - HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
- 4 FLASH - FLAME SENSED AND GAS VALVE AND NO SIGNAL.
- 5 FLASH - FLAME ROLL OUT SWITCH OPEN.

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE.
3. CONTROL TRANSFORMER PRIMARY LEADS: RED-COMMON; BLUE-208V; BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V OPERATION.
4. 208V OPERATING FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V, 50/60 HZ SUPPLIED.
6. TO 60 HZ FUSED DISCONNECT.
7. ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
8. MOTOR FACTORY WIRED FOR CORRECT SPEED.
9. WIRE FROM PL2 (8 & 9) GO TO THE MIXED AIR SENSOR ON THE CONTROL BOARD.
10. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

WIRING INFORMATION

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

REPLACEMENT WIRE

- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105C, 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.

DETAIL "A"

SEE "DETAIL A" FOR FACTORY SETTINGS.

DETAIL "B"

DIAGNOSTICS

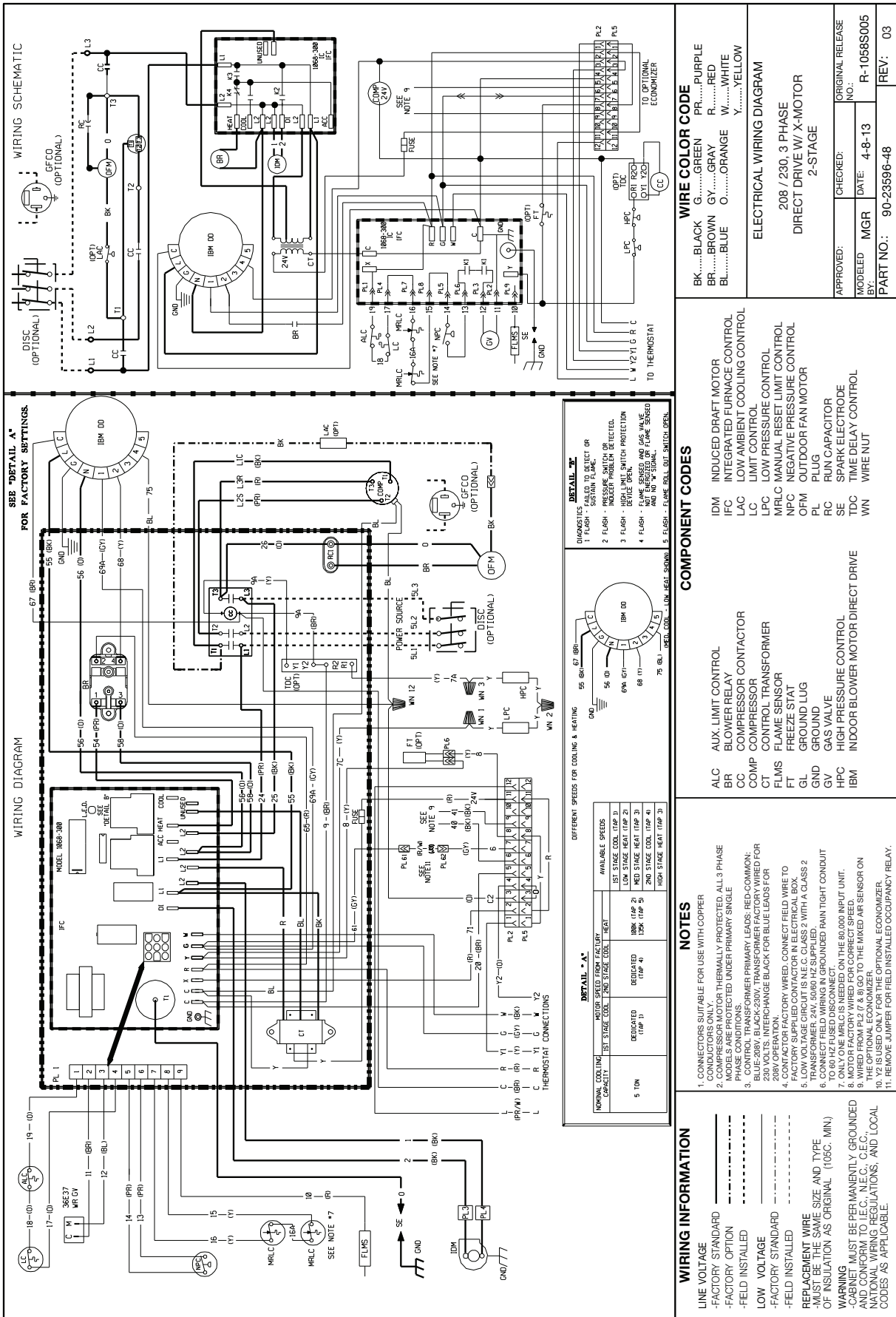
- 1 FLASH - FLAME OUT DETECT OR SUSTAIN FLAME.
- 2 FLASH - PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
- 3 FLASH - HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
- 4 FLASH - FLAME SENSED AND GAS VALVE AND NO SIGNAL.
- 5 FLASH - FLAME ROLL OUT SWITCH OPEN.

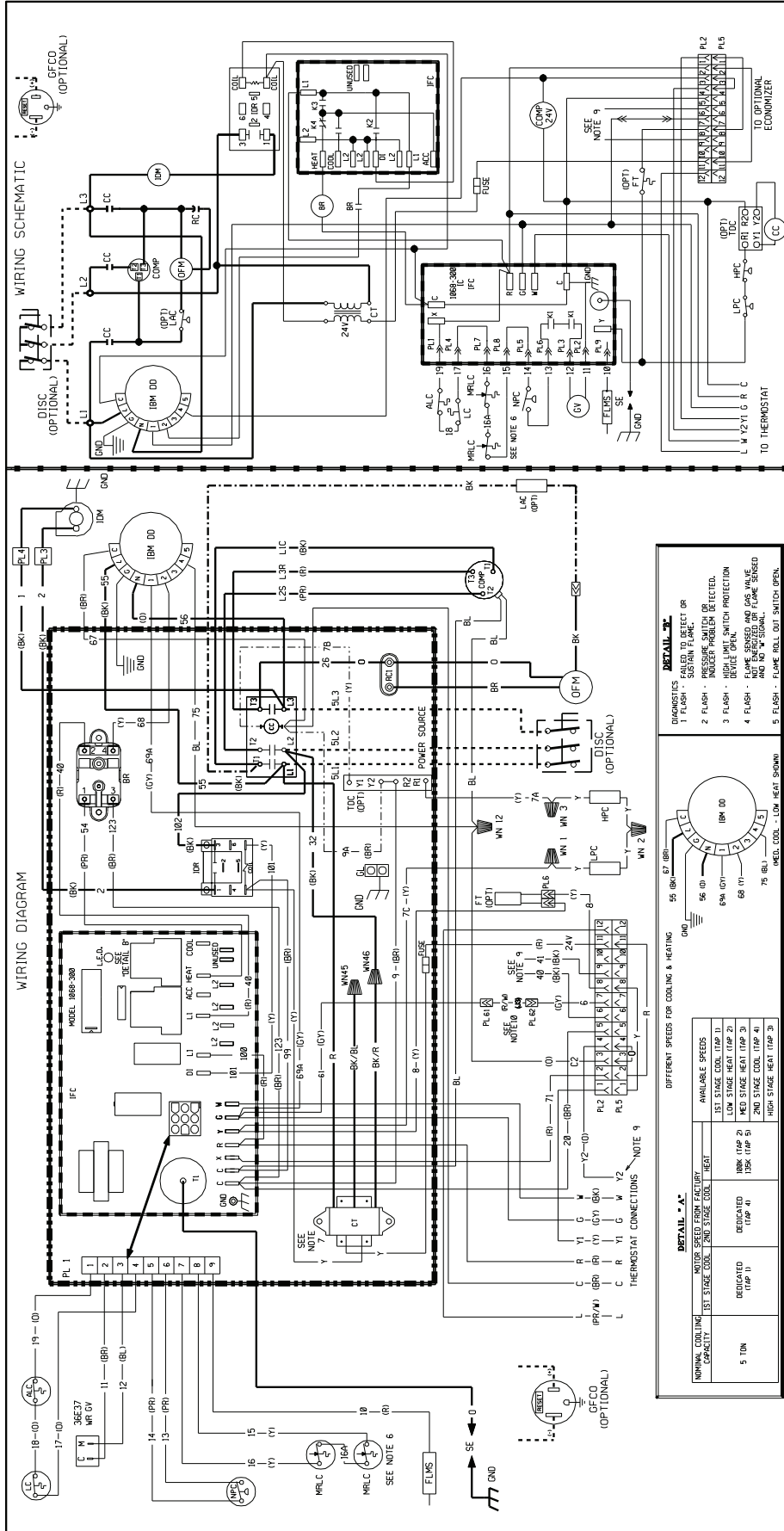
DETAIL "A"

| NOMINAL COLD LINE COMPARTMENT | MOTOR SPEED FROM FACTORY | AVAILABLE SPEEDS |
|-------------------------------|--------------------------|-------------------------|
| 1ST STAGE COOL (TRAP 1) | 1ST STAGE COOL (TRAP 1) | 1ST STAGE COOL (TRAP 1) |
| 2ND STAGE COOL (TRAP 2) | 2ND STAGE COOL (TRAP 2) | 2ND STAGE COOL (TRAP 2) |
| 3RD STAGE COOL (TRAP 3) | 3RD STAGE COOL (TRAP 3) | 3RD STAGE COOL (TRAP 3) |
| 4TH STAGE COOL (TRAP 4) | 4TH STAGE COOL (TRAP 4) | 4TH STAGE COOL (TRAP 4) |
| 5TH STAGE COOL (TRAP 5) | 5TH STAGE COOL (TRAP 5) | 5TH STAGE COOL (TRAP 5) |

DETAIL "B"

| NOMINAL COLD LINE COMPARTMENT | MOTOR SPEED FROM FACTORY | AVAILABLE SPEEDS |
|-------------------------------|--------------------------|-------------------------|
| 1ST STAGE COOL (TRAP 1) | 1ST STAGE COOL (TRAP 1) | 1ST STAGE COOL (TRAP 1) |
| 2ND STAGE COOL (TRAP 2) | 2ND STAGE COOL (TRAP 2) | 2ND STAGE COOL (TRAP 2) |
| 3RD STAGE COOL (TRAP 3) | 3RD STAGE COOL (TRAP 3) | 3RD STAGE COOL (TRAP 3) |
| 4TH STAGE COOL (TRAP 4) | 4TH STAGE COOL (TRAP 4) | 4TH STAGE COOL (TRAP 4) |
| 5TH STAGE COOL (TRAP 5) | 5TH STAGE COOL (TRAP 5) | 5TH STAGE COOL (TRAP 5) |





WIRING SCHEMATIC

WIRING DIAGRAM

WIRE COLOR CODE

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

ELECTRICAL WIRING DIAGRAM

460V X-DRIVE MOTOR
 DIRECT DRIVE BLOWER
 2-STAGE

APPROVED: _____ CHECKED: _____ ORIGINAL RELEASE NO.: _____
 MODELED MGR DATE: 4-5-13 R-1058S005
 BY: _____
 PART NO.: 90-23596-49 REV: 03

COMPONENT CODES

ALC AUX. LIMIT CONTROL
 BC BLOWER CONTACTOR
 CC COMPRESSOR CONTACTOR
 COMP COMPRESSOR
 CT CONTROL TRANSFORMER
 DISC DISCONNECT SWITCH
 FMS FLAME SENSOR
 FT FREEZE STAT
 GFCO GROUND FAULT CONVENIENCE OUTLET
 GL GROUND LUG
 GND GROUND
 GV GAS VALVE
 HPC HIGH PRESSURE CONTROL
 IBM INDOOR BLOWER MOTOR DIRECT DRIVE

IDM INDUCED DRAFT MOTOR
 IDR INDUCED DRAFT RELAY
 IFC INTEGRATED FURNACE CONTROL
 LAC LOW AMBIENT COOLING CONTROL
 LC LIMIT CONTROL
 LPC LOW PRESSURE CONTROL
 MRLC MANUAL-RESET LIMIT CONTROL
 NPC NEGATIVE PRESSURE CONTROL
 OFM OUTDOOR FAN MOTOR
 PL PLUG
 RC RUN CAPACITOR
 SD SMOKE DETECTOR
 SE SPARK ELECTRODE
 TDC TIME DELAY CONTROL
 WN WIRE NUT

DETAIL - A

| NOMINAL COOLING CAPACITY | MOTOR SPEED FROM FACTORY | 1ST STAGE COOL | 2ND STAGE COOL | HEAT |
|--------------------------|--------------------------|----------------|----------------|--------------|
| 5 TON | DEDICATED (TAP 1) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) |
| | DEDICATED (TAP 1) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) |
| | DEDICATED (TAP 1) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) |
| | DEDICATED (TAP 1) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) |

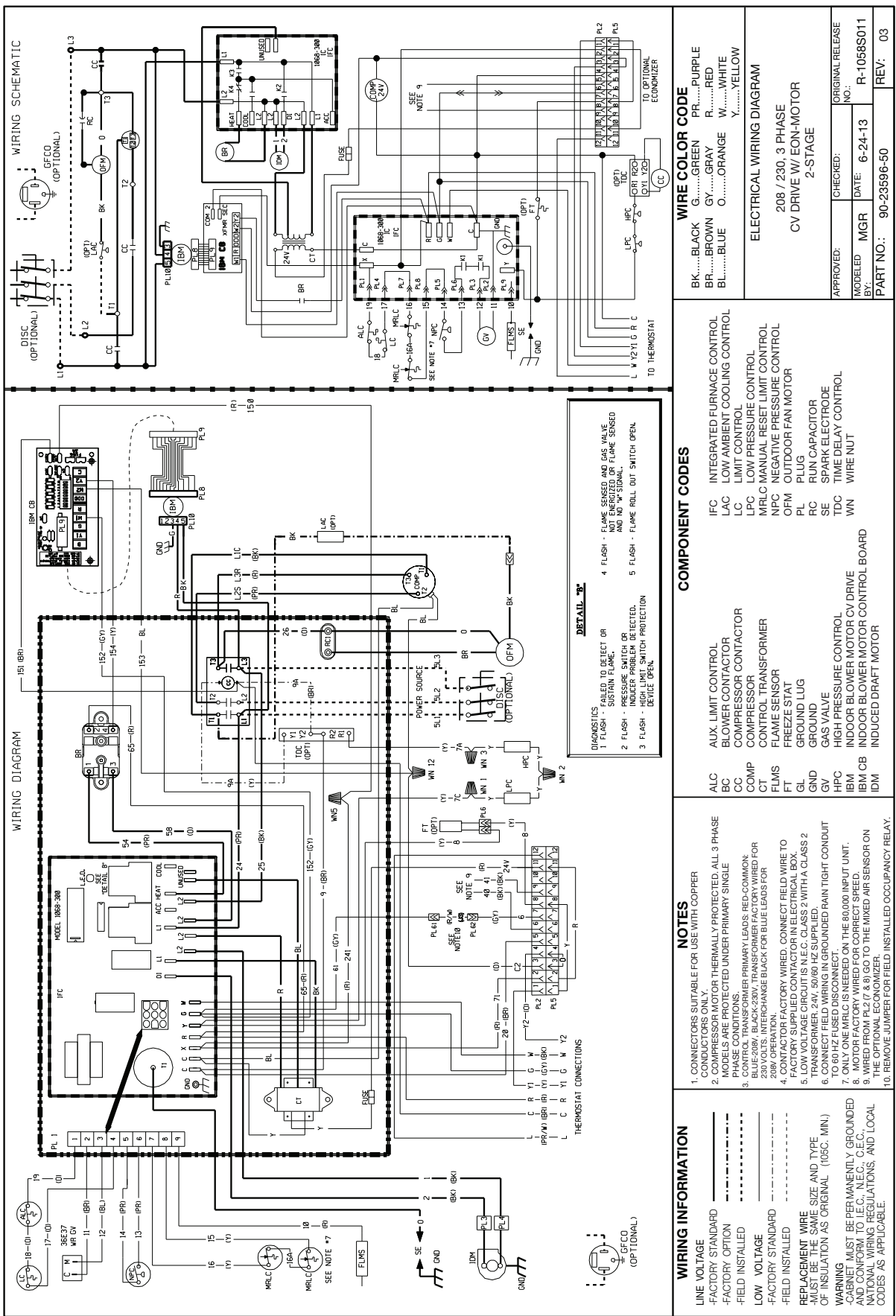
DETAIL - B

DIFFERENT SPEEDS FOR COOLING & HEATING

| AVAILABLE SPEEDS | 1ST STAGE COOL (TAP 1) | 2ND STAGE COOL (TAP 2) | HEAT (TAP 3) | 3RD STAGE COOL (TAP 4) | 4TH STAGE COOL (TAP 5) |
|------------------|------------------------|------------------------|--------------|------------------------|------------------------|
| 180K (TAP 2) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) |
| 150K (TAP 5) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) |
| 150K (TAP 5) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) |
| 150K (TAP 5) | 180K (TAP 2) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) | 150K (TAP 5) |

- NOTES**
- CONNECTORS SUITABLE FOR USE WITH COPPER
 - CONDUCTORS ONLY, NOT THERMALLY PROTECTED, ALL 3 PHASE
 - MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS
 - CONTRACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
 - LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
 - CONNECT FIELD WIRING IN GROUNDING RAIN TIGHT CONDUIT TO THE GAS VALVE AND FLAME SENSOR.
 - CONTROL TRANSFORMER PRIMARY LEADS: BLUE-COMMON; BK/RED-460V 60 HZ / 380V 50 HZ; RED-575V 60 HZ / 415V 50 HZ
 - WIRING FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
 - Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
 - REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

- WIRING INFORMATION**
- LINE VOLTAGE
 - FACTORY STANDARD
 - FACTORY OPTION
 - FIELD INSTALLED
 - LOW VOLTAGE
 - FACTORY STANDARD
 - FIELD INSTALLED
 - REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL. (105C, MIN.)
 - WARNING CABINET MUST BE PERMANENTLY GROUND TO THE MAIN ELECTRICAL SERVICE AND LOCAL NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.



WIRING INFORMATION

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

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER _____
2. COMPRESSOR MOTOR THERMALLY PROTECTED, ALL 3 PHASE _____
3. PHASE CONDITIONS _____
4. CONTROL TRANSFORMER PRIMARY LEADS: RED-COMMON: _____
5. BLUE-208V, BLACK-230V, TRANSFORMER FACTORY WIRED FOR _____
6. 230 VOLTS, INTERCHANGE BLACK FOR BLUE LEADS FOR _____
7. FACTORY FACTORY WIRE, CONNECT FIELD WIRE TO _____
8. FACTORY SUPPLIED CONTACT IN ELECTRICAL BOX. _____
9. TRANSFORMER, 24V, 50/60 HZ SUPPLIED. _____
10. TO 60 HZ FUSED DISCONNECT. _____
11. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT _____
12. MOTOR FACTORY WIRE, CONNECT FIELD WIRE TO _____
13. MOTOR FACTORY WIRE, CONNECT FIELD WIRE TO _____
14. WIRE FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON _____
15. THE OPTIONAL ECONOMIZER. _____
16. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY. _____

COMPONENT CODES

- | | |
|--------|-----------------------------------|
| ALC | AUX LIMIT CONTROL |
| BC | BLOWER CONTACTOR |
| CC | COMPRESSOR CONTACTOR |
| CT | CONTROL TRANSFORMER |
| FLMS | FLAME SENSOR |
| FT | FREEZE STAT |
| GL | GROUND LUG |
| GND | GROUND |
| GV | GAS VALVE |
| HPC | HIGH PRESSURE CONTROL |
| IBM CB | INDOOR BLOWER MOTOR CONTROL BOARD |
| IDM | INDUCED DRAFT MOTOR |
| IFC | INTEGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |
| LPC | LOW PRESSURE CONTROL |
| MRLC | MANUAL RESET LIMIT CONTROL |
| OFM | OUTDOOR FAN MOTOR |
| PL | PLUG |
| RC | RUN CAPACITOR |
| SE | SPARK ELECTRODE |
| TDC | TIME DELAY CONTROL |
| WN | WIRE NUT |

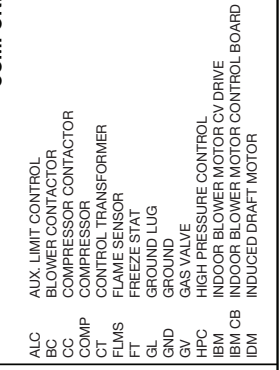
WIRE COLOR CODE

- | | | |
|--------------|--------------|---------------|
| BK.....BLACK | G.....GREEN | PR.....PURPLE |
| BR.....BROWN | GY.....GRAY | R.....RED |
| BL.....BLUE | O.....ORANGE | W.....WHITE |
| | | Y.....YELLOW |
- ELECTRICAL WIRING DIAGRAM**
208 / 230, 3 PHASE
CV DRIVE W/ ECON-MOTOR
2-STAGE
- | | | |
|-----------------|---------------|-----------------------|
| APPROVED: | CHECKED: | ORIGINAL RELEASE NO.: |
| MODELED BY: MGR | DATE: 6-24-13 | R-10585011 |
| PART NO.: | 90-23596-50 | REV: 03 |

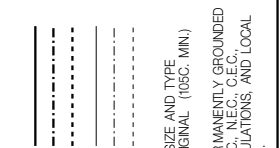
DIAGNOSTICS

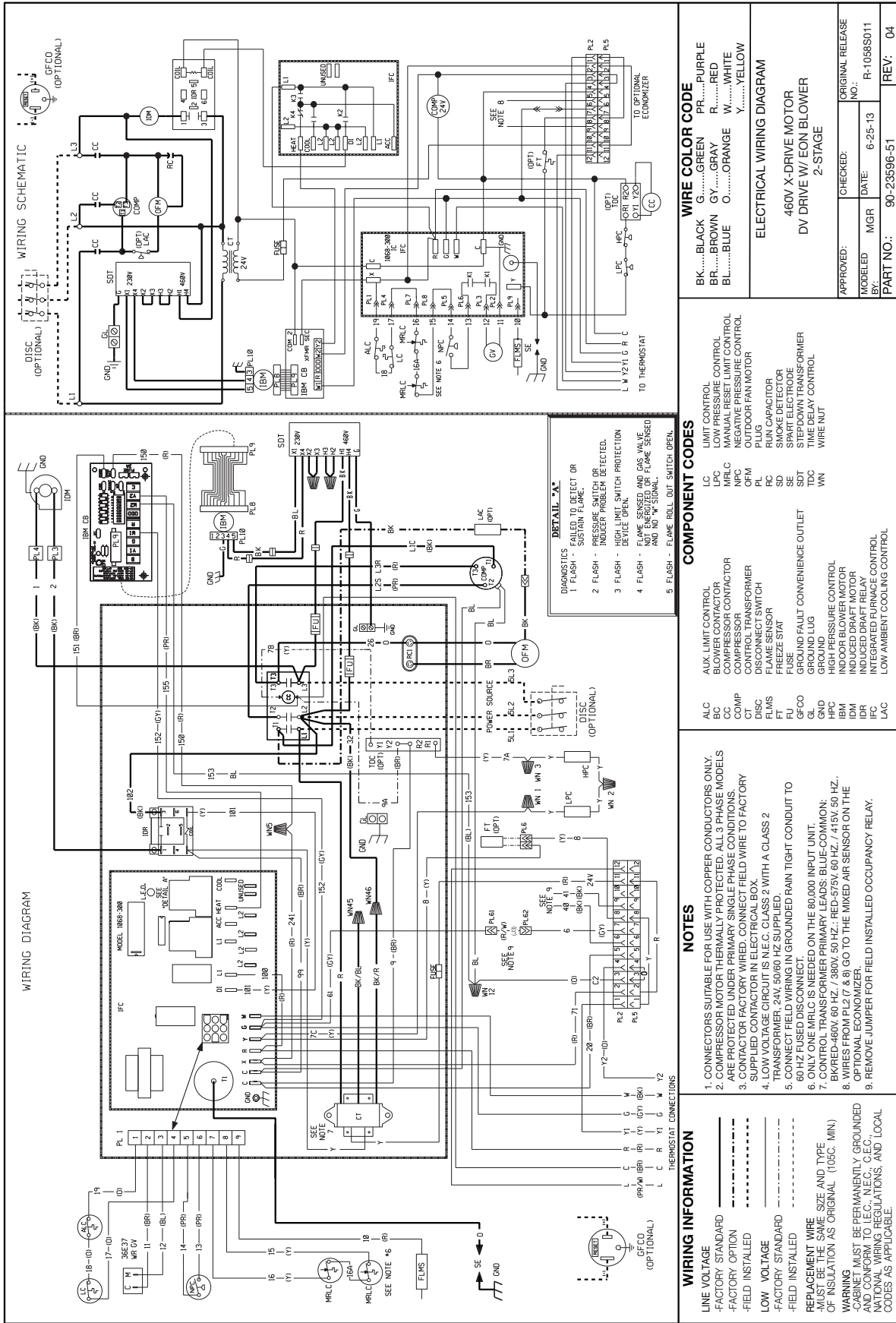
- 1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME.
- 2 FLASH - PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
- 3 FLASH - SWITCH PROTECTION DEVICE OPEN.
- 4 FLASH - FLAME SENSED AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO "M" SIGNAL.
- 5 FLASH - FLAME ROLL OUT SWITCH OPEN.

DETAIL - 24



THERMOSTAT CONNECTIONS





WIRE COLOR CODE

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

ELECTRICAL WIRING DIAGRAM

460V X-DRIVE MOTOR
 DV DRIVE W/ ECON BLOWER
 2-STAGE

| | | |
|-----------|-------------|------------------|
| APPROVED: | CHECKED: | ORIGINAL RELEASE |
| MODELED | DATE: | NO.: |
| BY: | 6-25-13 | R-1058S011 |
| PART NO.: | 90-23596-51 | REV: 04 |

COMPONENT CODES

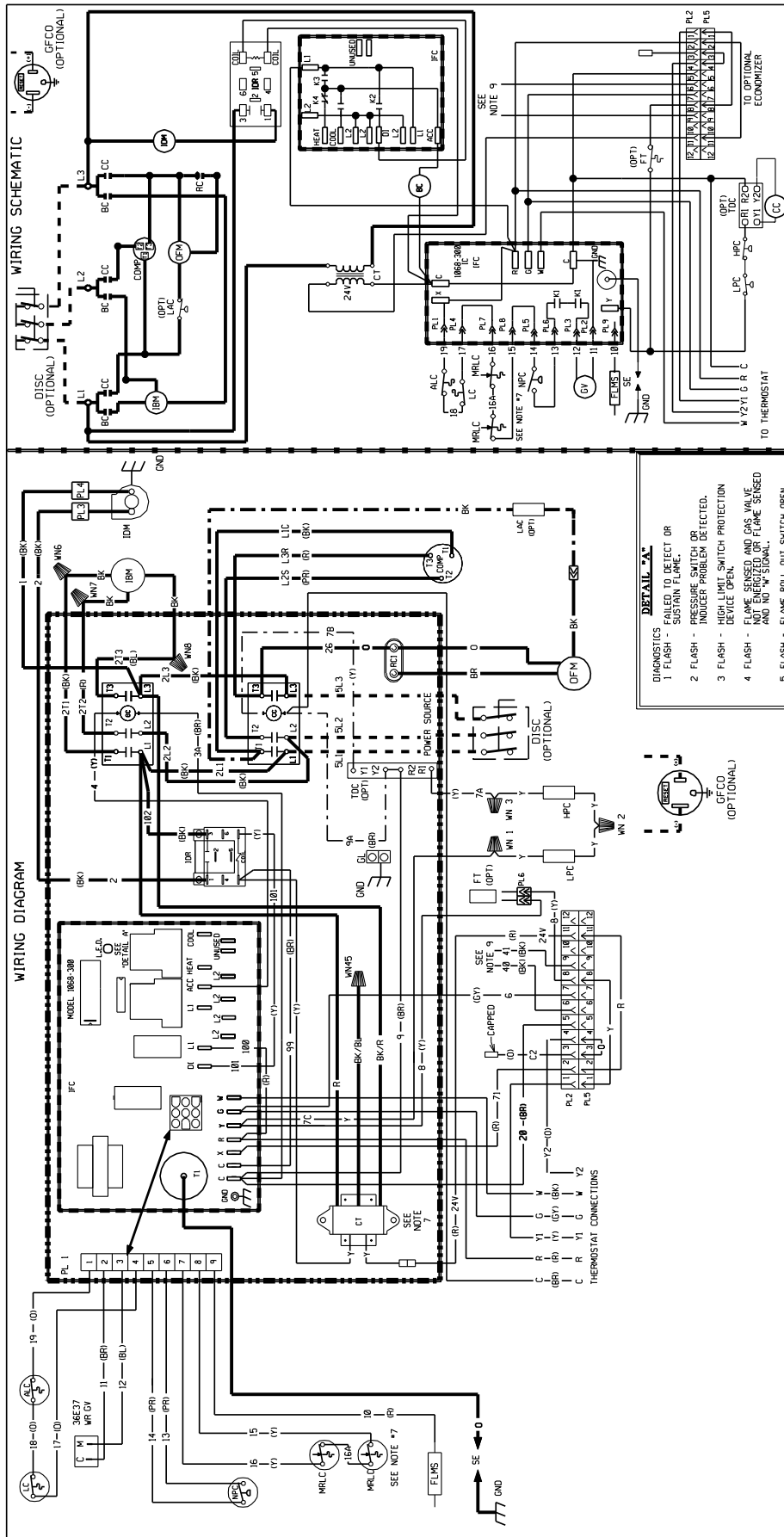
AUX LIMIT CONTROL
 BLOWER CONTACTOR
 COMPRESSOR
 CONTROL TRANSFORMER
 DISCONNECT SWITCH
 FLAME SENSOR
 FREEZE STAT
 FUSE
 GROUND FAULT CONVENIENCE OUTLET
 GROUND
 GROUND LUG
 HIGH PRESSURE CONTROL
 INDOOR BLOWER MOTOR
 INDUCED DRAFT MOTOR
 INTEGRATED DRAFT RELAY
 INTEGRATED FURNACE CONTROL
 LOW AMBIENT COOLING CONTROL

LC
 LPC
 MRLC
 OFM
 PL
 PLUG
 SD
 SE
 SET
 TMC
 WN

ALC
 BC
 CC
 COMP
 CT
 DISC
 FLMS
 FT
 FU
 GFCO
 GND
 HPC
 IBM
 IDR
 IFC
 LAC

- NOTES**
- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
 - COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
 - CONNECTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
 - LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
 - CONNECT FIELD WIRING IN GROUNDING RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
 - WIRING IS REQUIRED ON THE 60,000 INPUT UNIT.
 - CONTROL TRANSFORMER PRIMARY LEADS: BLUE-COMMON; BK/RED-480V 60 HZ / 350V 50 HZ - RED-575V 60 HZ / 415V 50 HZ. WIRES FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
 - REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

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



WIRING SCHEMATIC

DISC (OPTIONAL)

GFCD (OPTIONAL)

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

460 3 PHASE, 60 HZ BELT DRIVE

DR. BY DATE 2-11-13 DWG. NO. 90-23596-41 REV 01

WIRING INFORMATION

LINE VOLTAGE

- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

LOW VOLTAGE

- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

REPLACEMENT WIRE

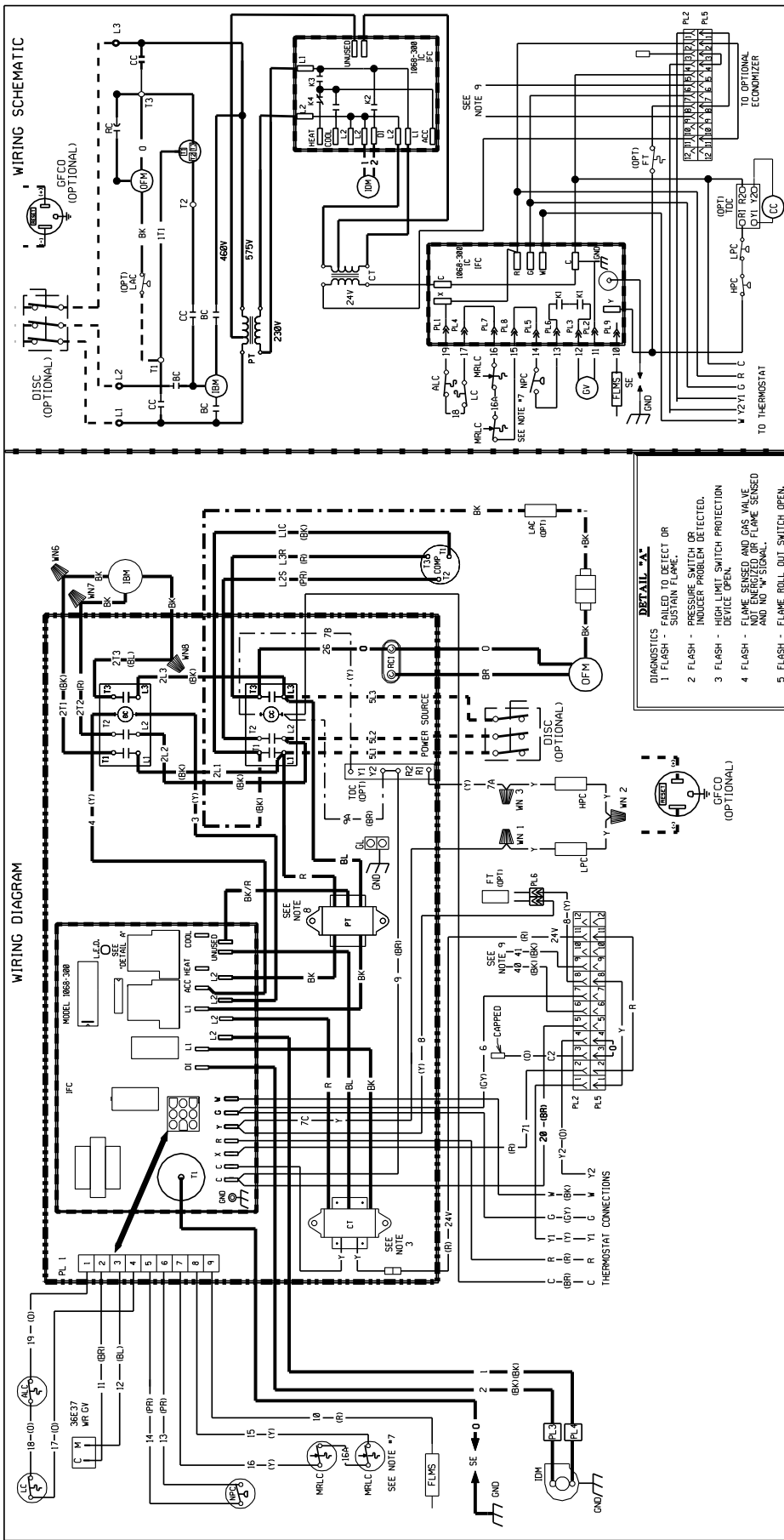
- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C.MIN.)
- CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

NOTES:

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTACTOR FACTORY WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED FACTORY IN ELECTRICAL BOX.
- 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 FUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
- POWER TRANSFORMER PRIMARY LEADS: BLUE-COMMON BK/RED-460V, 60 HZ / 380V, 50 HZ; RED-575V, 60 HZ / 415V, 50 HZ.
- WIRES FROM PL2 16 & 9 TO GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- 12 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

COMPONENT CODE

| | |
|------|---------------------------------|
| ALC | AUX. LIMIT CONTROL |
| BC | BLOWER CONTACTOR |
| CC | COMPRESSOR CONTACTOR |
| CT | CONTACTOR |
| CTP | CONTACTOR TRANSFORMER |
| DISC | DISCONNECT SWITCH |
| FLMS | FLAME SENSOR |
| FT | FREZE STAT |
| GFCD | GROUND FAULT CONVENIENCE OUTLET |
| GL | GROUND LUG |
| GN | GROUND |
| GV | GAS VALVE |
| HPC | HIGH PRESSURE CONTROL |
| IDM | INDUCED DRAFT MOTOR |
| IDR | INDUCED DRAFT RELAY |
| IFC | INTERGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |
| LFC | LOW PRESSURE CONTROL |
| LMC | LOW MEGALITRE PRESSURE CONTROL |
| MC | METRIC PRESSURE CONTROL |
| OPM | OUTDOOR FAN MOTOR |
| PL | PLUG |
| PT | POWER TRANSFORMER |
| RC | RUN CAPACITOR |
| SD | SMOKE DETECTOR |
| SE | SPARK ELECTRODE |
| TD | TIME DELAY CONTROL |
| WN | WIRE NUT |
| WNC | WIRE NUT CAP |
| IDR | INDUCED DRAFT RELAY |
| IFC | INTERGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |



WIRING SCHEMATIC

DISC (OPTIONAL)

GFCO (OPTIONAL)

WIRE COLOR CODE

| | | | |
|----|-------|----|--------|
| BK | BLACK | 0 | ORANGE |
| BR | BROWN | PR | PURPLE |
| BL | BLUE | R | RED |
| G | GREEN | W | WHITE |
| GY | GRAY | Y | YELLOW |

ELECTRICAL WIRING DIAGRAM

575, 3 PHASE, 60 HZ BELT DRIVE

DR. BY APP. BY DATE
MGR P-11-13

DWG. NO. 90-23596-45

REV 01

WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FIELD INSTALLED
-FACTORY STANDARD
-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.
- COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS: RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRE FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V OPERATION.
- CONTACTOR FACTORY WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
- 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 FUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 60.000 INPUT UNIT.
- POWER TRANSFORMER PRIMARY LEADS: BLUE-COMMON, RED-575V, 60 HZ, 7.415V, 50 HZ.
- WIRES FROM PL2 16 & 9 GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- 18, 12 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

COMPONENT CODE

| | |
|------|---------------------------------|
| ALC | AUX. LIMIT CONTROL |
| BL | BURNER FACTOR |
| CC | CONTROL CONTACTOR |
| COMP | COMPRESSOR |
| CT | CONTROL TRANSFORMER |
| DISC | DISCONNECT SWITCH |
| FLMS | FLAME SENSOR |
| FT | FREEZE STAT |
| GFCO | GROUND FAULT CONVENIENCE OUTLET |
| GL | GROUND LUG |
| GV | GAS VALVE |
| HPC | HIGH PRESSURE CONTROL |
| IDM | INDUCED DRAFT MOTOR |
| IFC | INTERGRATED FURNACE CONTROL |
| LAC | LOW AMBIENT COOLING CONTROL |
| LC | LIMIT CONTROL |
| LPC | LOW PRESSURE CONTROL |
| MRLC | MANUAL RESET LIMIT CONTROL |
| OPF | OUTDOOR FAN MOTOR |
| PL | PLUG |
| PT | POWER TRANSFORMER |
| RC | RUN CAPACITOR |
| SD | SMOKE DETECTOR |
| SE | SPARK ELECTRODE |
| TDC | TIME DELAY CONTROL |
| WN | WIRE NUT |
| Y2 | Y2 |
| Y1 | Y1 |
| Y | Y |
| X | X |
| Z | Z |
| W | W |
| V | V |
| U | U |
| T | T |
| S | S |
| R | R |
| Q | Q |
| P | P |
| O | O |
| N | N |
| M | M |
| L | L |
| K | K |
| J | J |
| I | I |
| H | H |
| G | G |
| F | F |
| E | E |
| D | D |
| C | C |
| B | B |
| A | A |

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.**

- Compressor**
3-Phase, Commercial ApplicationsFive (5) Years
- Parts**
3-Phase, Commercial ApplicationsOne (1) Year
- Factory Standard Heat Exchanger**
3-Phase, Commercial ApplicationsTen (10) Years
- Stainless Steel Heat Exchanger**
3-Phase, Commercial ApplicationsTwenty (20) Years



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.

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