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

Rheem Commercial Classic® Series
Package Gas Electric Unit

RKPN- 14 SEER Series
RKQN- 15 SEER Series
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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</tr>
</tbody>
</table>
**RKPN/RKQN Series**

- **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.
- 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.

**RKPN-/RKQN- STANDARD FEATURES INCLUDE:**

- 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.

Tubular Heat Exchanger
- Aluminized steel (viewed from supply air side panel)
- Stainless steel available

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

Heating Compartment Access

Control Box Access
- Non-corrosive plastic condensate pan

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

[ ] Designates Metric Conversions
Air
Model Number Identification
RKPN/RKQN Series

Economizer Option (See Next Page)

Factory Installed Options
(See Next Page)

Ignition System
E = Electric Ignition,
1 Stage Gas Valve
X = Electric Ignition,
1 Stage Gas Valve, NOx

Heating Capacity (MBH)
08 = 80,000 [23.5]
10 = 100,000 [29.3]
12 = 120,000 [35.2]
13 = 135,000 [39.6]

Drive Package
K = Direct Drive
L = Belt Drive
M = Belt Drive—High Static
V = Variable Drive

Electrical Designation
C = 208-230 V, 3 PH, 60 Hz
D = 460 V, 3 PH, 60 Hz
J = 208-230V, 1 PH, 60 Hz
Y = 575V, 3 PH, 60 Hz

Cooling Capacity (BTUH) [kW]
036 = 36,000 [10.55]
048 = 48,000 [14.07]
060 = 60,000 [17.58]

Future Technical Variations
Design Series
(R-410A)

Efficiency Designation
P = 14 SEER
Q = 15 SEER

Product Classification
K = Rooftop—Commercial

Tradebrand
R = Rheem Package Gas Electric

[ ] Designates Metric Conversions
FACTOR INSTALLED OPTION CODES FOR RKPN/RKQN
(3-5 TON) [10.6-17.6 kW] (A036, A048, A060)

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Hail Guard</th>
<th>Stainless Steel Heat Exchanger</th>
<th>Non-Powered Convenience Outlet/Unfused Service Disconnect</th>
<th>Low Ambient/Freeze Stat</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AJ</td>
<td></td>
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</tr>
<tr>
<td>AP</td>
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<td></td>
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<tr>
<td>BF</td>
<td>x</td>
<td></td>
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<tr>
<td>BG</td>
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<td></td>
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<tr>
<td>BY</td>
<td>x</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>JB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Economizer Codes
A = No Economizer
F = Economizer with Single Enthalpy
Example: RKPN-A060.JK13E[XX] (where XX is factory installed option)
Example: No Options
RKPN-A060.JK13E
Example: No option with factory installed economizer
RKPN-A060.JK13EAF
Example: Options with stainless steel heat exchanger and no factory installed economizer
RKPN-A060.JK13EAJA
Example: Options same as above with factory installed economizer
RKPN-A060.JK13EAJF

ECONOMIZER SELECTION FOR RKPN/RKQN
(3-5 TON) [10.6-17.6 kW]

<table>
<thead>
<tr>
<th></th>
<th>No Economizer</th>
<th>Single Enthalpy Economizer with Barometric Relief</th>
<th>Single Enthalpy Economizer with Smoke Detector</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"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

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 RKPN- Series

<table>
<thead>
<tr>
<th>Model RKPN- Series</th>
<th>A036CK08</th>
<th>A036CK12</th>
<th>A036CL08</th>
<th>A036CL12</th>
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<tr>
<td><strong>Cooling Performance</strong>¹</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Gross Cooling Capacity [Btu [kW]]</td>
<td>36,200 [10.61]</td>
<td>36,200 [10.61]</td>
<td>36,200 [10.61]</td>
<td>36,200 [10.61]</td>
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<tr>
<td>EER/SEER²</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
</tr>
<tr>
<td>Nominal CFM/AHRI Rated CFM [L/s]</td>
<td>1200/1250 [566/590]</td>
<td>1200/1250 [566/590]</td>
<td>1200/1250 [566/590]</td>
<td>1200/1250 [566/590]</td>
</tr>
<tr>
<td>AHRI Net Cooling Capacity [Btu [kW]]</td>
<td>34,600 [10.14]</td>
<td>34,600 [10.14]</td>
<td>34,600 [10.14]</td>
<td>34,600 [10.14]</td>
</tr>
<tr>
<td>Net Sensible Capacity [Btu [kW]]</td>
<td>25,300 [7.41]</td>
<td>25,300 [7.41]</td>
<td>25,300 [7.41]</td>
<td>25,300 [7.41]</td>
</tr>
<tr>
<td>Net Latent Capacity [Btu [kW]]</td>
<td>9,300 [2.72]</td>
<td>9,300 [2.72]</td>
<td>9,300 [2.72]</td>
<td>9,300 [2.72]</td>
</tr>
<tr>
<td>Net System Power kW</td>
<td>2.95</td>
<td>2.95</td>
<td>2.95</td>
<td>2.95</td>
</tr>
</tbody>
</table>

### 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 \[^{[\circ\text{C}]\]}\] | 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 | 4 | 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

| 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

| 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

| No. Used/Diameter in. \[mm\] | 1 \[609.6\] | 1 \[609.6\] | 1 \[609.6\] | 1 \[609.6\] |
| 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

| No. Used/Diameter in. \[mm\] | 1 \[254x254\] | 1 \[254x254\] | 1 \[254x254\] | 1 \[254x254\] |
| 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

| Furnished | Yes | Yes | Yes | Yes |
| (NO.) Size Recommended \[mm x mm x mm\] | 1x1x25 \[25x60x635\] | 1x1x25 \[25x60x635\] | 1x1x25 \[25x60x635\] | 1x1x25 \[25x60x635\] |
| 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.

[¹] Designates Metric Conversions

[²] Designates Metric Conversions
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

<table>
<thead>
<tr>
<th>Model RKPN Series</th>
<th>A036CM08</th>
<th>A036CM12</th>
<th>A036DK08</th>
<th>A036DK12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling Performance</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
</tr>
<tr>
<td>EER/SEER&lt;sup&gt;2&lt;/sup&gt;</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
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<tr>
<td>Net System Power kW</td>
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<td>2.95</td>
<td>2.95</td>
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<td><strong>Heating Performance (Gas)</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
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<tr>
<td>Heating Input Btu [kW]</td>
<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
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<tr>
<td>AFUE %</td>
<td>81</td>
<td>81</td>
<td>81</td>
<td>81</td>
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<tr>
<td>Steady State Efficiency (%)</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
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<tr>
<td>No. Burners</td>
<td>4</td>
<td>6</td>
<td>4</td>
<td>6</td>
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<tr>
<td>No. Stages</td>
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<td>1</td>
<td>1</td>
<td>1</td>
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<td>Gas Connection Pipe Size in. [mm]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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<td>Outdoor Sound Rating (dB)&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>78</td>
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<tr>
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<td>Louvered</td>
<td>Louvered</td>
<td>Louvered</td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>13.9 [1.29]</td>
<td>13.9 [1.29]</td>
<td>13.9 [1.29]</td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<tr>
<td>Drain Connection No./Size in. [mm]</td>
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<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
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<tr>
<td><strong>Outdoor Fan—Type</strong></td>
<td>Propeller</td>
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<tr>
<td>Drive Type/No. Speeds</td>
<td>Direct/1</td>
<td>Direct/1</td>
<td>Direct/1</td>
<td>Direct/1</td>
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<td>No. Motors/HP</td>
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<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
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<td>Motor RPM</td>
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<td><strong>Indoor Fan—Type</strong></td>
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<td>No. Used/Diameter in. [mm]</td>
<td>1/10x10 [254x254]</td>
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<td>1/10x10 [254x254]</td>
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<td>Drive Type</td>
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See Page 34 for Notes.
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<td>120,000 [35.16]</td>
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See Page 34 for Notes.
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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### Weights


See Page 34 for Notes.

<sup>1</sup> Designates Metric Conversions
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
</tr>
<tr>
<td>Refrigerant Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<td><strong>Filter—Type</strong></td>
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<td>Furnished</td>
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<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
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<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
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<tr>
<td><strong>Weights</strong></td>
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See Page 34 for Notes.

[ ] Designates Metric Conversions
### Cooling Performance

<table>
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<tr>
<th>Model RKPN- Series</th>
<th>A048CL10</th>
<th>A048CL13</th>
<th>A048CM08</th>
<th>A048CM10</th>
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<td>EER/SEER</td>
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<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
</tr>
<tr>
<td>Net Latent Capacity Btu [kW]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
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<tr>
<td>Net System Power kW</td>
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<td>3.93</td>
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### Heating Performance (Gas)

<table>
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<th>A048CM08</th>
<th>A048CM10</th>
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<tbody>
<tr>
<td>Heating Input Btu [kW]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
<td>80,000 [23.44]</td>
<td>100,000 [29.3]</td>
</tr>
<tr>
<td>Heating Output Btu [kW]</td>
<td>81,000 [23.73]</td>
<td>109,400 [32.05]</td>
<td>64,800 [18.99]</td>
<td>81,000 [23.73]</td>
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<tr>
<td>AFUE %</td>
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<td>81</td>
<td>81</td>
<td>81</td>
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<td>Steady State Efficiency (%)</td>
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<td>82</td>
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<tr>
<td>No. Burners</td>
<td>5</td>
<td>6</td>
<td>4</td>
<td>5</td>
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<tr>
<td>No. Stages</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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### Compressor

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<th>A048CL13</th>
<th>A048CM08</th>
<th>A048CM10</th>
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<td>1/Scroll</td>
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<td>1/Scroll</td>
<td>1/Scroll</td>
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<td>78</td>
<td>78</td>
<td>78</td>
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<tr>
<td>Outdoor Sound Rating (dB)</td>
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<td>78</td>
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<td>78</td>
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<td>Outdoor Coil—Fin Type</td>
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<td>Louvered</td>
<td>Louvered</td>
<td>Louvered</td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
</tr>
<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
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<td>Indoor Coil—Fin Type</td>
<td>Louvered</td>
<td>Louvered</td>
<td>Louvered</td>
<td>Louvered</td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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<td>Refrigerant Control</td>
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<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<tr>
<td>Drain Connection No./Size in. [mm]</td>
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<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
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### Refrigerant Charge Oz. [g]

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### Weights

<table>
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<th>A048CM08</th>
<th>A048CM10</th>
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See Page 34 for Notes.
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

#### Cooling Performance

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<th>Model RKPN- Series</th>
<th>A048CM13</th>
<th>A048DK08</th>
<th>A048DK10</th>
<th>A048DK13</th>
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</thead>
<tbody>
<tr>
<td>EER/SEER</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
</tr>
<tr>
<td>Net Latent Capacity [kW]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
</tr>
<tr>
<td>Net System Power kW</td>
<td>3.93</td>
<td>3.93</td>
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#### Heating Performance (Gas)

<table>
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<th>A048DK08</th>
<th>A048DK10</th>
<th>A048DK13</th>
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</thead>
<tbody>
<tr>
<td>Heating Input Btu [kW]</td>
<td>135,000 [39.55]</td>
<td>80,000 [23.44]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
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<tr>
<td>Heating Output Btu [kW]</td>
<td>109,350 [32.04]</td>
<td>64,800 [18.99]</td>
<td>81,000 [23.73]</td>
<td>109,400 [32.05]</td>
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<tr>
<td>AFUE %</td>
<td>81</td>
<td>81</td>
<td>81</td>
<td>81</td>
</tr>
<tr>
<td>No. Burners</td>
<td>6</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>No. Stages</td>
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<td>1</td>
<td>1</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
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#### Compressor

<table>
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<tr>
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<td>1/Scroll</td>
<td>1/Scroll</td>
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<td>Outdoor Sound Rating (dB)</td>
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#### Outdoor Coil—Fin Type

<table>
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<tr>
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<th>A048DK08</th>
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<th>A048DK13</th>
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</thead>
<tbody>
<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Microchannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
</tr>
<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
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#### Indoor Coil—Fin Type

<table>
<thead>
<tr>
<th></th>
<th>A048CM13</th>
<th>A048DK08</th>
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<th>A048DK13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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#### Refrigerant Control

<table>
<thead>
<tr>
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<th>A048DK08</th>
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<th>A048DK13</th>
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</thead>
<tbody>
<tr>
<td>TX Valves</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Furnished Recommended Size [mm x mm x mm]</td>
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<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
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#### Weights

<table>
<thead>
<tr>
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<th>A048DK08</th>
<th>A048DK10</th>
<th>A048DK13</th>
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</table>

See Page 34 for Notes.
### Cooling Performance

<table>
<thead>
<tr>
<th>Model RKPN- Series</th>
<th>A048DL08</th>
<th>A048DL10</th>
<th>A048DL13</th>
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<tr>
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<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
</tr>
<tr>
<td>Net Latent Capacity Btu [kW]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
</tr>
<tr>
<td>Net System Power kW</td>
<td>3.93</td>
<td>3.93</td>
<td>3.93</td>
<td>3.93</td>
</tr>
</tbody>
</table>

### Heating Performance (Gas)

| 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] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |

### Compressor

| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB) | 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] |
| Indoor Coil—Fin Type | Louvered | Louvered | Louvered | Louvered |
| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| 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] |

### Refrigerant Charge Oz. [g]


### Weights

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

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<tr>
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<tr>
<td><strong>Cooling Performance</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>EER/SEER&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
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<tr>
<td>Net Latent Capacity Btu [kW]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
<td>12,000 [3.52]</td>
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<tr>
<td>Net System Power kW</td>
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<td>3.93</td>
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<td><strong>Heating Performance (Gas)</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
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<td></td>
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<tr>
<td>Heating Input Btu [kW]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
<td>80,000 [23.44]</td>
<td>100,000 [29.3]</td>
</tr>
<tr>
<td>Heating Output Btu [kW]</td>
<td>81,000 [23.73]</td>
<td>109,350 [32.04]</td>
<td>64,000 [18.75]</td>
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</tr>
<tr>
<td>AFUE %</td>
<td>81</td>
<td>81</td>
<td>81</td>
<td>81</td>
</tr>
<tr>
<td>Steady State Efficiency (%)</td>
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<td>82</td>
<td>82</td>
<td>82</td>
</tr>
<tr>
<td>No. Burners</td>
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<td>No. Stages</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
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<td>0.5 [12.7]</td>
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<td><strong>Outdoor Coil—Fin Type</strong></td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
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<td>Face Area sq. ft. [sq. m]</td>
<td>16.4 [1.52]</td>
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<td><strong>Indoor Coil—Fin Type</strong></td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<td>Face Area sq. ft. [sq. m]</td>
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<td>4.8 [0.45]</td>
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<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<td>1/0.75 [25x19.05]</td>
<td>1/0.75 [25x19.05]</td>
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<td>Direct/1</td>
<td>Direct/1</td>
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<td><strong>Indoor Fan—Type</strong></td>
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<td>No. Used/Diameter in. [mm]</td>
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<td>1/10x10 [254x254]</td>
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<td>Belt (Adjustable)</td>
<td>Belt (Adjustable)</td>
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<td>Motor RPM</td>
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<td>1725</td>
<td>1075</td>
<td>1075</td>
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<tr>
<td>Motor Frame Size</td>
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<tr>
<td><strong>Filter—Type</strong></td>
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<tr>
<td>Furnished</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
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<tr>
<td><strong>Weights</strong></td>
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See Page 34 for Notes.

[ ] Designates Metric Conversions
<table>
<thead>
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<th>Model RKPN- Series</th>
<th>A048JK13</th>
<th>A048YL13</th>
<th>A048YM13</th>
<th>A060CK10</th>
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<td>CONTINUED</td>
<td>CONTINUED</td>
<td>CONTINUED</td>
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<tr>
<td>Gross Cooling Capacity Btu [kW]</td>
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<td>48,000 [14.06]</td>
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<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
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<td><strong>Heating Performance (Gas)</strong></td>
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<tr>
<td>Heating Output Btu [kW]</td>
<td>110,000 [32.23]</td>
<td>109,400 [32.05]</td>
<td>109,400 [32.05]</td>
<td>81,000 [23.73]</td>
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<tr>
<td>AFUE %</td>
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<td>81</td>
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<tr>
<td>Steady State Efficiency (%)</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
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<tr>
<td>No. Burners</td>
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<td>6</td>
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<td>No. Stages</td>
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<td>Gas Connection Pipe Size in. [mm]</td>
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<td>1/Scroll</td>
<td>1/Scroll</td>
<td>1/Scroll</td>
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<td>Outdoor Sound Rating (dB)</td>
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<td>78</td>
<td>78</td>
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<td><strong>Outdoor Coil—Fin Type</strong></td>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
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<td>0.7 [18]</td>
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<tr>
<td>Tube Type</td>
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<td>MicroChannel</td>
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<td>MicroChannel</td>
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<td>4.8 [0.45]</td>
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<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<td>Drain Connection No./Size in. [mm]</td>
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<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
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<td><strong>Outdoor Fan—Type</strong></td>
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<td>Motor RPM</td>
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<td>1075</td>
<td>1075</td>
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<td><strong>Indoor Fan—Type</strong></td>
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<tr>
<td>No. Used/Diameter in. [mm]</td>
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<td>1/10x10 [254x254]</td>
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<td><strong>Filter—Type</strong></td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
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<td>(1)x16x25 [25x406x635]</td>
<td>(1)x16x25 [25x406x635]</td>
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<tr>
<td><strong>Weights</strong></td>
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See Page 34 for Notes.

[ ] Designates Metric Conversions
## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

### Cooling Performance

<table>
<thead>
<tr>
<th>Model RKPN- Series</th>
<th>A060CK13</th>
<th>A060CL10</th>
<th>A060CL13</th>
<th>A060CM10</th>
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<tr>
<td>Gross Cooling Capacity Btu [kW]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
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<tr>
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<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
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<td>Net System Power kW</td>
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### Heating Performance (Gas)

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<tr>
<td></td>
<td>135,000 [39.55]</td>
<td>109,400 [32.05]</td>
<td>40-70 [22.2-38.9]</td>
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<tr>
<td>No. Burners</td>
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<td>5</td>
<td>4</td>
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<tr>
<td>No. Stages</td>
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### Compressor

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### Outdoor Coil—Fin Type

<table>
<thead>
<tr>
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<th>MicroChannel</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
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<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
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<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
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### Indoor Coil—Fin Type

<table>
<thead>
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<th>Tube Type</th>
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<th>MicroChannel</th>
<th>MicroChannel</th>
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</thead>
<tbody>
<tr>
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<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
</tr>
<tr>
<td>Refrigerant Control</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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### Indoor Fan—Type

<table>
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<tbody>
<tr>
<td>No. Motors</td>
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<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
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<tr>
<td>Motor RPM</td>
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<td>1075</td>
<td>1075</td>
<td>1075</td>
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### Outdoor Fan—Type

<table>
<thead>
<tr>
<th>No. Used/Diameter in. [mm]</th>
<th>1/10x10 [254x254]</th>
<th>1/11x10 [279x254]</th>
<th>1/11x10 [279x254]</th>
<th>1/11x10 [279x254]</th>
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<tbody>
<tr>
<td>Drive Type</td>
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<td>Belt (Adjustable)</td>
<td>Belt (Adjustable)</td>
<td>Belt (Adjustable)</td>
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<td>Single</td>
<td>Single</td>
<td>Single</td>
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<td>Motor HP</td>
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<td>3/4</td>
<td>1</td>
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<tr>
<td>Motor RPM</td>
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<td>1725</td>
<td>1725</td>
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<tr>
<td>Motor Frame Size</td>
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<td>56</td>
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### Filter—Type

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<tr>
<th>Furnished</th>
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<th>Disposable</th>
<th>Disposable</th>
<th>Disposable</th>
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<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
<td>(1)x16x25 [25x406x635]</td>
<td>(1)x16x25 [25x406x635]</td>
<td>(1)x16x25 [25x406x635]</td>
<td>(1)x16x25 [25x406x635]</td>
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<tr>
<td>Refrigerant Charge Oz. [g]</td>
<td>63 [1786]</td>
<td>63 [1786]</td>
<td>63 [1786]</td>
<td>63 [1786]</td>
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### Weights

### Cooling Performance

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<th>Model RKPN- Series</th>
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<th>A060DK10</th>
<th>A060DK13</th>
<th>A060DL10</th>
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</thead>
<tbody>
<tr>
<td>Gross Cooling Capacity [Btu] [kW]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
</tr>
<tr>
<td>EER/SEER</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
</tr>
<tr>
<td>Net System Power kW</td>
<td>4.95</td>
<td>4.95</td>
<td>4.95</td>
<td>4.95</td>
</tr>
</tbody>
</table>

### Heating Performance (Gas)

| 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] |
| Refrigerant Control | TX Valves | TX Valves | TX Valves | TX Valves |

### Compressor

| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB) | 83 | 83 | 83 | 83 |
| 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] |

### Outdoor Coil—Fin Type

| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| 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] |

### Indoor Coil—Fin Type

| Tube Type | MicroChannel | MicroChannel | MicroChannel | MicroChannel |
| Face Area sq. ft. [sq. m] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] | 4.8 [0.45] |
| 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

| Drive Type | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| 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

| 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

| 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] |
| Refrigerant Charge Oz. [g] | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |

### Weights


See Page 34 for Notes. [ ] Designates Metric Conversions
### Cooling Performance

<table>
<thead>
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<th>A060DM13</th>
<th>A060JK10</th>
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</thead>
<tbody>
<tr>
<td>Gross Cooling Capacity Btu [kW]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
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<tr>
<td>EER/SEER</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
<td>11.6/14</td>
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<tr>
<td>Net System Power kW</td>
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### Heating Performance (Gas)

<table>
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<tr>
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<th>A060DM13</th>
<th>A060JK10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating Input Btu [kW]</td>
<td>135,000 [39.55]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
<td>100,000 [29.3]</td>
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<tr>
<td>Heating Output Btu [kW]</td>
<td>109,400 [32.05]</td>
<td>81,000 [23.73]</td>
<td>109,400 [32.05]</td>
<td>81,000 [23.73]</td>
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<tr>
<td>AFUE %</td>
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<tr>
<td>Steady State Efficiency (%)</td>
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<tr>
<td>No. Burners</td>
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<td>No. Stages</td>
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<td>Gas Connection Pipe Size in. [mm]</td>
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<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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### Compressor

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### Outdoor Coil—Fin Type

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<th>A060DM13</th>
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</thead>
<tbody>
<tr>
<td>Tube Type</td>
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<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
</tr>
<tr>
<td>MicroChannel Depth in. [mm]</td>
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<td>0.7 [18]</td>
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<td>Face area sq. ft. [sq. m]</td>
<td>16.4 [1.52]</td>
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### Indoor Coil—Fin Type

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<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<td>Face area sq. ft. [sq. m]</td>
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<tr>
<td>TX Valves</td>
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<td>Yes</td>
<td>Yes</td>
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<tr>
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<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
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### Filter—Type

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<th>A060DM10</th>
<th>A060DM13</th>
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<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
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<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
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### Refrigerant Charge Oz. [g]

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<th>A060DM13</th>
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### Weights

<table>
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See Page 34 for Notes.

[ ] Designates Metric Conversions
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<th>A060YL13</th>
<th>A060YM13</th>
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<td><strong>Cooling Performance</strong>¹</td>
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<tr>
<td>Gross Cooling Capacity Btu [kW]</td>
<td>60,000 [17.58]</td>
<td>60,000 [17.58]</td>
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<td>EER/SEER²</td>
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<td>11.6/14</td>
<td>11.6/14</td>
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<td>Net System Power kW</td>
<td>4.95</td>
<td>4.95</td>
<td>4.95</td>
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<tr>
<td>**Heating Performance (Gas)**³</td>
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<tr>
<td>Heating Output Btu [kW]</td>
<td>110,000 [31.64]</td>
<td>109,400 [32.05]</td>
<td>109,400 [32.05]</td>
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<td>AFUE %</td>
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<td>81</td>
<td>81</td>
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<tr>
<td>Steady State Efficiency (%)</td>
<td>82</td>
<td>82</td>
<td>82</td>
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<tr>
<td>No. Burners</td>
<td>6</td>
<td>6</td>
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</tr>
<tr>
<td>No. Stages</td>
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<td>1</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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<td>No./Type</td>
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<td>1/Scroll</td>
<td>1/Scroll</td>
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<tr>
<td>**Outdoor Sound Rating (dB)**⁴</td>
<td>83</td>
<td>83</td>
<td>83</td>
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<tr>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
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<td>MicroChannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
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<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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<td>Refrigerant Control</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<tr>
<td>Drain Connection No./Size in. [mm]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
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<tr>
<td><strong>Outdoor Fan—Type</strong></td>
<td>Propeller</td>
<td>Propeller</td>
<td>Propeller</td>
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<tr>
<td>Drive Type/No. Speeds</td>
<td>Direct/1</td>
<td>Direct/1</td>
<td>Direct/1</td>
</tr>
<tr>
<td>No. Motors/HP</td>
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<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
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<tr>
<td>Motor RPM</td>
<td>1075</td>
<td>1075</td>
<td>1075</td>
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<tr>
<td><strong>Indoor Fan—Type</strong></td>
<td>FC Centrifugal</td>
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<td>No. Used/Diameter in. [mm]</td>
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<td>Belt (Adjustable)</td>
<td>Belt (Adjustable)</td>
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<tr>
<td>No. Speeds</td>
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<td>No. Motors</td>
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<td><strong>Filter—Type</strong></td>
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See Page 34 for Notes. [  ] Designates Metric Conversions
## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<th>A036CK12</th>
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<td>2.72</td>
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<td><strong>Heating Performance (Gas)3</strong></td>
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<tr>
<td>Heating Input Btu [kW]</td>
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<td>120,000 [35.16]</td>
<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
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<td>81</td>
<td>81</td>
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<td>Steady State Efficiency (%)</td>
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<td>82</td>
<td>82</td>
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<td>No. Burners</td>
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<td>6</td>
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<tr>
<td>Tube Type</td>
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<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
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<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
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<td>Tube Type</td>
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<td>MicroChannel</td>
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<td>4.8 [0.45]</td>
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<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
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<td>1/3 HP</td>
<td>1/3 HP</td>
<td>1/3 HP</td>
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<td>Motor RPM</td>
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<td>1075</td>
<td>1725</td>
<td>1725</td>
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<td><strong>Indoor Fan—Type</strong></td>
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<tr>
<td>No. Used/Diameter in. [mm]</td>
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<td>1/10x10x10 [254x254x254]</td>
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<td><strong>Filter—Type</strong></td>
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<td>Yes</td>
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<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
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<td>(1)1x16x25 [25x406x635]</td>
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<td>54 [1531]</td>
<td>54 [1531]</td>
<td>54 [1531]</td>
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<tr>
<td><strong>Weights</strong></td>
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</table>

See Page 34 for Notes.

[1] Designates Metric Conversions
### MODEL RKQN- Series

**Model**
- A036CM08
- A036CM12
- A036DK08
- A036DK12

#### Cooling Performance

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<th>A036DK08</th>
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<tbody>
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<td>12.5/15</td>
<td>12.5/15</td>
<td>12.5/15</td>
<td>12.5/15</td>
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<tr>
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#### Heating Performance (Gas)

<table>
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<th>A036DK08</th>
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<tbody>
<tr>
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<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
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<tr>
<td>AFUE %</td>
<td>81</td>
<td>81</td>
<td>81</td>
<td>81</td>
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<tr>
<td>Steady State Efficiency (%)</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
</tr>
<tr>
<td>No. Burners</td>
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<td>6</td>
<td>4</td>
<td>6</td>
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#### Compressor

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<td>Scroll</td>
<td>Scroll</td>
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<tr>
<td>Outdoor Fan—Type</td>
<td>Propeller</td>
<td>Propeller</td>
<td>Propeller</td>
<td>Propeller</td>
</tr>
<tr>
<td>Drive Type/No. Speeds</td>
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<td>Direct/1</td>
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<tr>
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<td>Outdoor Coil—Fin Type</td>
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<td>Louvered</td>
<td>Louvered</td>
<td>Louvered</td>
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<tr>
<td>MicroChannel Depth [mm]</td>
<td>0.7 [18]</td>
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<td>0.7 [18]</td>
<td>0.7 [18]</td>
</tr>
<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>13.9 [1.29]</td>
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<td>13.9 [1.29]</td>
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#### Indoor Coil—Fin Type

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<th>A036DK12</th>
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<td>Face Area sq. ft. [sq. m]</td>
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<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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<tr>
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<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
</tr>
<tr>
<td>Drain Connection No./Size in. [mm]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
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#### Refrigerant Charge Oz. [g]

<table>
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<th>A036DK08</th>
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<td>54 [1531]</td>
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#### Weights

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See Page 34 for Notes.
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<th>A036DL12</th>
<th>A036DM08</th>
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<td>2.72</td>
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<td><strong>Heating Performance (Gas)2</strong></td>
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<tr>
<td>Heating Input Btu [kW]</td>
<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
<td>80,000 [23.44]</td>
<td>120,000 [35.16]</td>
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<tr>
<td>Steady State Efficiency (%)</td>
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<td>No. Burners</td>
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<td>6</td>
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<td>No. Stages</td>
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<td>1/Scroll</td>
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<td>Tube Type</td>
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<td>TX Valves</td>
<td>TX Valves</td>
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<td>Direct/1</td>
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<td>Belt (Adjustable)</td>
<td>Belt (Adjustable)</td>
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<td>(1)1x16x25 [25x406x635]</td>
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See Page 34 for Notes.

[ ] Designates Metric Conversions
### Cooling Performance

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<th>A036JK12</th>
<th>A048CK08</th>
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<td>12.5/15</td>
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### Heating Performance (Gas)

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<tbody>
<tr>
<td>Heating Input Btu [kW]</td>
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<td>120,000 [35.16]</td>
<td>80,000 [23.44]</td>
<td>100,000 [29.3]</td>
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<tr>
<td>Heating Output Btu [kW]</td>
<td>64,000 [18.76]</td>
<td>97,000 [27.83]</td>
<td>64,800 [18.99]</td>
<td>81,000 [23.73]</td>
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<td>AFUE %</td>
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<td>81</td>
<td>81</td>
<td>81</td>
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<tr>
<td>Steady State Efficiency (%)</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
</tr>
<tr>
<td>No. Burners</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
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<tr>
<td>No. Stages</td>
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<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
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<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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### Compressor

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### Outdoor Coil—Fin Type

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<th>Louvered</th>
<th>Louvered</th>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>MicroChannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>13.9 [1.29]</td>
<td>13.9 [1.29]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
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### Indoor Coil—Fin Type

<table>
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<th>Louvered</th>
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<tbody>
<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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<td>Refrigerant Control</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
</tr>
<tr>
<td>Drain Connection No./Size in. [mm]</td>
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<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
<td>1/0.75 [19.05]</td>
</tr>
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</table>

### Outdoor Fan—Type

| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| 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

| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| Drive Type | Direct | Direct | Direct | Direct |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP | 1/2 | 1/2 | 3/4 | 3/4 |
| Motor RPM | 1075 | 1075 | 1075 | 1075 |
| Motor Frame Size | 48 | 48 | 48 | 48 |

### Filter—Type

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<tr>
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<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
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<td>(1)x16x25 [25x406x635]</td>
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### Weights

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

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<td><strong>Heating Performance (Gas)</strong></td>
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<tr>
<td>Heating Input Btu [kW]</td>
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<td>80,000 [23.44]</td>
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<td>64,800 [18.99]</td>
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<td>AFUE %</td>
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<td>81</td>
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<td>Steady State Efficiency (%)</td>
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See Page 34 for Notes.
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<th>Model RKQN- Series</th>
<th>A048CM08</th>
<th>A048CM10</th>
<th>A048CM13</th>
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<tr>
<td>Heating Output Btu [kW]</td>
<td>64,800 [18.99]</td>
<td>81,000 [23.73]</td>
<td>109,400 [32.05]</td>
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<td>Steady State Efficiency (%)</td>
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<tr>
<td>Tube Type</td>
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<td>Face Area sq. ft. [sq. m]</td>
<td>16.4 [1.52] 16.4 [1.52] 16.4 [1.52] 16.4 [1.52]</td>
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<td>Tube Type</td>
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<tr>
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<td><strong>Filter—Type</strong></td>
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<tr>
<td>Furnished</td>
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See Page 34 for Notes.

[ ] Designates Metric Conversions
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<td>TX Valves</td>
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See Page 34 for Notes. [ ] Designates Metric Conversions
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

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<td>Heating Input Btu [kW]</td>
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<td>80,000 [23.44]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
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<td>Heating Output Btu [kW]</td>
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<td>64,800 [18.99]</td>
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<td>Steady State Efficiency (%)</td>
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<td>Tube Type</td>
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<td>TX Valves</td>
<td>TX Valves</td>
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#### Outdoor Fan—Type

| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| 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

| 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 |
| Motor Frame Size | 48 | 56 | 56 | 56 |

#### Filter—Type

| 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] |

#### Refrigerant Charge Oz. [g]


#### Weights


See Page 34 for Notes.
### Cooling Performance

|--------------|-----------------------------------|----------|----------------------------------|--------------------------------------|----------------------------------|-------------------------------|----------------------|

### Heating Performance (Gas)

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<td>Indoor</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
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<tr>
<td>Outdoor</td>
<td>Propeller</td>
<td>Propeller</td>
<td>Propeller</td>
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<td>FC Centrifugal</td>
<td>FC Centrifugal</td>
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<td>Direct</td>
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<tr>
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<td>Multiple</td>
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<td>Motor HP</td>
<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
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<tr>
<td>Motor RPM</td>
<td>1075</td>
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### Filter—Type

<table>
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<tr>
<td>Size</td>
<td>1x16x25 [25x406x635]</td>
<td>1x16x25 [25x406x635]</td>
<td>1x16x25 [25x406x635]</td>
</tr>
<tr>
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<td>1x16x25 [25x406x635]</td>
<td>1x16x25 [25x406x635]</td>
<td></td>
</tr>
</tbody>
</table>

### Refrigerant Charge [Oz. [g]]

| Net Weight lbs. [kg] | 533 [242] | 538 [244] | 543 [246] |
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

#### Cooling Performance

<table>
<thead>
<tr>
<th>Model RKQN- Series</th>
<th>A060CK10</th>
<th>A060CK13</th>
<th>A060CV10</th>
<th>A060CV13</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gross Cooling Capacity Btu [kW]</strong></td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
</tr>
<tr>
<td><strong>SEER</strong></td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>EER (1st stage / 2nd stage)</strong></td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
</tr>
<tr>
<td><strong>Net Latent Capacity (1st / 2nd stage) Btu [kW]</strong></td>
<td>211x642</td>
<td>211x642</td>
<td>211x642</td>
<td>211x642</td>
</tr>
<tr>
<td><strong>Net System Power (1st / 2nd stage) [kW]</strong></td>
<td>2.1 / 4.8</td>
<td>2.1 / 4.8</td>
<td>2.1 / 4.8</td>
<td>2.1 / 4.8</td>
</tr>
</tbody>
</table>

#### Heating Performance (Gas)

| 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] |
| AFUE % | 81 | 81 | 81 | 81 |
| Steady State Efficiency (%) | 82 | 82 | 82 | 82 |
| No. Burners | 5 | 6 | 5 | 6 |
| No. Stages | 1 | 1 | 1 | 1 |

#### Compressor

<table>
<thead>
<tr>
<th>No./Type</th>
<th>1/Scroll</th>
<th>1/Scroll</th>
<th>1/Scroll</th>
<th>1/Scroll</th>
</tr>
</thead>
</table>

#### Outdoor Sound Rating (dBA)

<table>
<thead>
<tr>
<th>Outdoor Sound Rating (dB)</th>
<th>83</th>
<th>83</th>
<th>83</th>
<th>83</th>
</tr>
</thead>
</table>

#### Outdoor Coil—Fin Type

<table>
<thead>
<tr>
<th>Tube Type</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroChannel Depth in. [mm]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
</tr>
<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
</tr>
</tbody>
</table>

#### Indoor Coil—Fin Type

<table>
<thead>
<tr>
<th>Tube Type</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
<th>MicroChannel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
</tr>
<tr>
<td>Refrigerant Control</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
</tr>
<tr>
<td>Drain Connection No./Size in. [mm]</td>
<td>1 / 0.75 [25x406x635]</td>
<td>1 / 0.75 [25x406x635]</td>
<td>1 / 0.75 [25x406x635]</td>
<td>1 / 0.75 [25x406x635]</td>
</tr>
</tbody>
</table>

#### Outdoor Fan—Type

| Drive Type/No. Speeds | Direct/1 | Direct/1 | Direct/1 | Direct/1 |
| 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

| No. Used/Diameter in. [mm] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] | 1/10x10 [254x254] |
| 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 |

#### Refrigerant Charge Oz. [g]

| Refrigerant Charge Oz. [g] | 63 [1786] | 63 [1786] | 63 [1786] | 63 [1786] |

#### Weights


See Page 34 for Notes.

[ ] Designates Metric Conversions
<table>
<thead>
<tr>
<th>Model RKQN- Series</th>
<th>A060DK10</th>
<th>A060DK13</th>
<th>A060DV10</th>
<th>A060DV13</th>
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<tr>
<td><strong>Cooling Performance</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Cooling Capacity Btu [kW]</td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
</tr>
<tr>
<td>SEER&lt;sup&gt;2&lt;/sup&gt;</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>EER (1st stage / 2nd stage)</td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
</tr>
<tr>
<td>No. Burners</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>No. Stages</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
</tr>
<tr>
<td><strong>Heating Performance (Gas)</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating Input Btu [kW]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
<td>100,000 [29.3]</td>
<td>135,000 [39.55]</td>
</tr>
<tr>
<td>Heating Output Btu [kW]</td>
<td>81,000 [23.73]</td>
<td>109,400 [32.05]</td>
<td>81,000 [23.73]</td>
<td>109,400 [32.05]</td>
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<td>AFUE %</td>
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<td>81</td>
<td>81</td>
<td>81</td>
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<tr>
<td>Steady State Efficiency (%)</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
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<tr>
<td>No. Burners</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>6</td>
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<td>No. Stages</td>
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<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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<td><strong>Compressor</strong></td>
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<tr>
<td>No./Type</td>
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<td>1/Scroll</td>
<td>1/Scroll</td>
<td>1/Scroll</td>
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<tr>
<td><strong>Outdoor Sound Rating (dB)</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>No. Burners</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>No. Stages</td>
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<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Gas Connection Pipe Size in. [mm]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
<td>0.5 [12.7]</td>
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<tr>
<td><strong>Outdoor Coil—Fin Type</strong></td>
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<tr>
<td>Tube Type</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
<td>MicroChannel</td>
</tr>
<tr>
<td>MicroChannel Depth in. [mm]</td>
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<td>0.7 [18]</td>
<td>0.7 [18]</td>
<td>0.7 [18]</td>
</tr>
<tr>
<td>Face Area sq. ft. [sq. m]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
<td>16.4 [1.52]</td>
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<td>Tube Type</td>
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<tr>
<td>Face Area sq. ft. [sq. m]</td>
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<td>4.8 [0.45]</td>
<td>4.8 [0.45]</td>
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<tr>
<td>Refrigerant Control</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
<td>TX Valves</td>
</tr>
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<td>Drain Connection No./Size in. [mm]</td>
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<td>1 / 0.75 [19.05]</td>
<td>1 / 0.75 [19.05]</td>
<td>1 / 0.75 [19.05]</td>
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<td><strong>Outdoor Fan—Type</strong></td>
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<td>Direct/1</td>
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<td>No. Motors/HP</td>
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<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
<td>1 at 1/3 HP</td>
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<tr>
<td>Motor RPM</td>
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<td>1075</td>
<td>1075</td>
<td>1075</td>
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<tr>
<td><strong>Indoor Fan—Type</strong></td>
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<tr>
<td>No. Used/Diameter in. [mm]</td>
<td>1/10x10 [254x254]</td>
<td>1/10x10 [254x254]</td>
<td>1/10x10 [254x254]</td>
<td>1/10x10 [254x254]</td>
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<td>Direct</td>
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<td>Multiple</td>
<td>Variable</td>
<td>Variable</td>
</tr>
<tr>
<td>No. Motors</td>
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<td>1</td>
</tr>
<tr>
<td>Motor RPM</td>
<td>1075</td>
<td>1075</td>
<td>1075</td>
<td>1075</td>
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<tr>
<td>Motor Frame Size</td>
<td>48</td>
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<td>Filter—Type</td>
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<td>Disposable</td>
<td>Disposable</td>
<td>Disposable</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>(NO.) Size Recommended in. [mm x mm x mm]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
<td>(1)1x16x25 [25x406x635]</td>
</tr>
<tr>
<td>Refrigerant Charge Oz. [g]</td>
<td>63 [1786]</td>
<td>63 [1786]</td>
<td>63 [1786]</td>
<td>63 [1786]</td>
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<tr>
<td>Weights</td>
<td></td>
<td></td>
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</tbody>
</table>

See Page 34 for Notes.

[ ] Designates Metric Conversions
### NOM. SIZES 3-5 TONS [10.6-17.6 kW]

<table>
<thead>
<tr>
<th>Model RKQN- Series</th>
<th>A060JK10</th>
<th>A060JK13</th>
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<tbody>
<tr>
<td><strong>Cooling Performance</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Cooling Capacity Btu [kW]</td>
<td>59,000 [17.29]</td>
<td>59,000 [17.29]</td>
</tr>
<tr>
<td>SEER&lt;sup&gt;2&lt;/sup&gt;</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>EER (1st stage / 2nd stage)</td>
<td>19.9/11.6</td>
<td>19.9/11.6</td>
</tr>
<tr>
<td>AHRI Rated CFM (1st / 2nd stage) [L/s]</td>
<td>1375 / 1800 [649 / 849]</td>
<td>1375 / 1800 [649 / 849]</td>
</tr>
<tr>
<td>AHRI Net Cooling Capacity (1st / 2nd stage) Btu [kW]</td>
<td>49,000 / 57,000 [14.3/16.7]</td>
<td>49,000 / 57,000 [14.3/16.7]</td>
</tr>
<tr>
<td>Net System Power (1st / 2nd stage) [kW]</td>
<td>2.1 / 4.8</td>
<td>2.1 / 4.8</td>
</tr>
</tbody>
</table>

| **Heating Performance (Gas)**<sup>3</sup> |          |          |
| Heating Input Btu [kW] | 100,000 [29.3] | 135,000 [39.55] |
| Heating Output Btu [kW] | 81,000 [23.73] | 106,000 [30.84] |
| 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)**<sup>4</sup> | 83 | 83 |

**Outdoor Coil—Fin Type**

| 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] |

**Indoor Coil—Fin Type**

| 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] |
| 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**

| 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**

| 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**

| Furnished | Yes | Yes |
| (NO.) Size Recommended in. [mm x mm x mm] | (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.
NOTES:

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

2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.

3. 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] 

<table>
<thead>
<tr>
<th>CFM (L/s)</th>
<th>71°F [21.7°C]</th>
<th>67°F [19.4°C]</th>
<th>63°F [17.2°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1375 [494]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1250 [509]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1062 [501]</td>
<td></td>
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</tbody>
</table>

### OUTDOOR DRY BULB TEMPERATURE °F [°C]

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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>95°F [35°C]</td>
<td>37.8 [3.2]</td>
<td>32.2 [9.5]</td>
<td>95 [35]</td>
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<tr>
<td>100°F [37.8°C]</td>
<td>30.9 [8.3]</td>
<td>29.4 [8.7]</td>
<td>100 [37.8]</td>
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<tr>
<td>105°F [40.6°C]</td>
<td>30.9 [8.3]</td>
<td>29.4 [8.7]</td>
<td>105 [40.6]</td>
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<td>110°F [43.3°C]</td>
<td>30.9 [8.3]</td>
<td>29.4 [8.7]</td>
<td>110 [43.3]</td>
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<tr>
<td>120°F [48.9°C]</td>
<td>30.9 [8.3]</td>
<td>29.4 [8.7]</td>
<td>120 [48.9]</td>
</tr>
<tr>
<td>125°F [51.7°C]</td>
<td>30.9 [8.3]</td>
<td>29.4 [8.7]</td>
<td>125 [51.7]</td>
</tr>
</tbody>
</table>

### NOTES:
- When the entering air dry bulb is other than 80°F [26.7°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (wbE – 80)].

### Conversion:
- [J] Designates Metric Conversions
# GROSS SYSTEMS PERFORMANCE DATA—RKPN-A048

## Entering Indoor Air @ 80°F [26.7°C] dbE ①

<table>
<thead>
<tr>
<th>CFM (L/s)</th>
<th>1650 (779)</th>
<th>1500 (708)</th>
<th>1275 (602)</th>
<th>1650 (779)</th>
<th>1500 (708)</th>
<th>1275 (602)</th>
<th>1650 (779)</th>
<th>1500 (708)</th>
<th>1275 (602)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR (°F)</td>
<td>0.1</td>
<td>0.08</td>
<td>0.05</td>
<td>0.1</td>
<td>0.08</td>
<td>0.05</td>
<td>0.1</td>
<td>0.08</td>
<td>0.05</td>
</tr>
<tr>
<td>75 [23.9]</td>
<td>58.2 [17.1]</td>
<td>34.7 [10.2]</td>
<td>2.7</td>
<td>55.4 [16.2]</td>
<td>40.9 [12.0]</td>
<td>2.7</td>
<td>52.4 [16.2]</td>
<td>45.8 [13.4]</td>
<td>2.7</td>
</tr>
<tr>
<td>80 [26.7]</td>
<td>56.7 [16.6]</td>
<td>34.0 [10.0]</td>
<td>2.8</td>
<td>53.8 [15.8]</td>
<td>40.2 [11.8]</td>
<td>2.8</td>
<td>51.5 [15.8]</td>
<td>45.1 [13.2]</td>
<td>2.8</td>
</tr>
<tr>
<td>100 [37.8]</td>
<td>50.2 [14.7]</td>
<td>30.7 [9.0]</td>
<td>3.5</td>
<td>47.3 [13.9]</td>
<td>36.9 [10.8]</td>
<td>3.5</td>
<td>45.2 [13.3]</td>
<td>42.7 [12.5]</td>
<td>3.5</td>
</tr>
<tr>
<td>125 [51.7]</td>
<td>41.1 [12.1]</td>
<td>25.5 [7.5]</td>
<td>3.8</td>
<td>42.0 [12.3]</td>
<td>34.5 [10.7]</td>
<td>3.7</td>
<td>38.2 [12.3]</td>
<td>34.0 [11.0]</td>
<td>3.7</td>
</tr>
</tbody>
</table>

**NOTES:** ① When the entering air dry bulb is below 80°F [26.7°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

<table>
<thead>
<tr>
<th>CFM (L/s)</th>
<th>71°F [21.7°C]</th>
<th>67°F [19.4°C]</th>
<th>63°F [17.2°C]</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>13</td>
<td>12</td>
<td>0.09</td>
</tr>
<tr>
<td><strong>DR (°C)</strong></td>
<td><strong>Total BTUH (kW)</strong></td>
<td><strong>Sens BTUH (kW)</strong></td>
<td><strong>Power</strong></td>
</tr>
<tr>
<td>75 (23.9)</td>
<td>72.0 [21.1]</td>
<td>41.1 [12.0]</td>
<td>3.7</td>
</tr>
<tr>
<td>90 (32.2)</td>
<td>66.9 [19.6]</td>
<td>38.8 [11.4]</td>
<td>4.3</td>
</tr>
<tr>
<td>100 (37.8)</td>
<td>63.0 [18.5]</td>
<td>36.8 [10.8]</td>
<td>4.8</td>
</tr>
<tr>
<td>105 (40.6)</td>
<td>60.9 [17.8]</td>
<td>35.7 [10.5]</td>
<td>5.1</td>
</tr>
<tr>
<td>110 (43.3)</td>
<td>58.8 [17.2]</td>
<td>34.5 [10.1]</td>
<td>5.3</td>
</tr>
<tr>
<td>115 (46.1)</td>
<td>56.3 [16.5]</td>
<td>33.2 [9.7]</td>
<td>5.5</td>
</tr>
<tr>
<td>120 (48.9)</td>
<td>53.8 [15.8]</td>
<td>31.9 [9.3]</td>
<td>5.8</td>
</tr>
<tr>
<td>125 (51.7)</td>
<td>51.3 [15.0]</td>
<td>30.4 [8.9]</td>
<td>6.0</td>
</tr>
</tbody>
</table>

① When the entering air dry bulb is other than 80°F [26.7°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

**NOTES:**
- 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

**INTEGRATED AIR & WATER**

[ ] Designates Metric Conversions
<table>
<thead>
<tr>
<th>Outdoor Dry Bulb Temperature (°F)</th>
<th>Total BTUH (kW)</th>
<th>Sens. BTUH (kW)</th>
<th>Power (kw)</th>
<th>Total BTUH (kW)</th>
<th>Sens. BTUH (kW)</th>
<th>Power (kw)</th>
<th>Total BTUH (kW)</th>
<th>Sens. BTUH (kW)</th>
<th>Power (kw)</th>
<th>Total BTUH (kW)</th>
<th>Sens. BTUH (kW)</th>
<th>Power (kw)</th>
<th>Total BTUH (kW)</th>
<th>Sens. BTUH (kW)</th>
<th>Power (kw)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°(23.9)</td>
<td>44.3 (13.0)</td>
<td>43.6 (12.8)</td>
<td>2.0</td>
<td>41.9 (12.3)</td>
<td>41.1 (12.1)</td>
<td>2.0</td>
<td>40.0 (11.7)</td>
<td>39.8 (11.7)</td>
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<td>39.1 (11.5)</td>
<td>2.0</td>
<td>37.2 (10.7)</td>
<td>37.9 (11.1)</td>
<td>2.0</td>
</tr>
<tr>
<td>80°(26.7)</td>
<td>43.2 (12.7)</td>
<td>42.4 (12.4)</td>
<td>2.1</td>
<td>40.7 (11.9)</td>
<td>40.0 (11.7)</td>
<td>2.1</td>
<td>38.9 (11.4)</td>
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<td>2.1</td>
<td>37.9 (11.1)</td>
<td>37.7 (11.1)</td>
<td>2.1</td>
<td>37.0 (10.8)</td>
<td>37.4 (11.0)</td>
<td>2.1</td>
</tr>
<tr>
<td>85°(29.4)</td>
<td>42.0 (12.3)</td>
<td>41.2 (12.1)</td>
<td>2.2</td>
<td>39.5 (11.6)</td>
<td>38.8 (11.4)</td>
<td>2.2</td>
<td>37.7 (11.1)</td>
<td>37.1 (10.8)</td>
<td>2.2</td>
<td>36.7 (10.5)</td>
<td>35.5 (10.0)</td>
<td>2.2</td>
<td>35.8 (9.7)</td>
<td>35.2 (9.6)</td>
<td>2.2</td>
</tr>
<tr>
<td>90°(32.2)</td>
<td>40.7 (11.9)</td>
<td>40.0 (11.7)</td>
<td>2.3</td>
<td>38.2 (11.2)</td>
<td>37.6 (11.0)</td>
<td>2.3</td>
<td>36.5 (10.7)</td>
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<td>2.3</td>
<td>34.9 (10.3)</td>
<td>35.9 (9.9)</td>
<td>2.3</td>
</tr>
<tr>
<td>95°(35)</td>
<td>39.4 (11.6)</td>
<td>38.7 (11.3)</td>
<td>2.5</td>
<td>36.9 (10.8)</td>
<td>36.3 (10.6)</td>
<td>2.5</td>
<td>35.3 (10.3)</td>
<td>34.9 (10.2)</td>
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<td>33.8 (9.9)</td>
<td>33.9 (10.1)</td>
<td>2.5</td>
<td>33.7 (9.7)</td>
<td>33.2 (9.5)</td>
<td>2.5</td>
</tr>
<tr>
<td>100°(37.8)</td>
<td>38.1 (11.2)</td>
<td>37.4 (11.0)</td>
<td>2.5</td>
<td>35.6 (10.4)</td>
<td>35.0 (10.3)</td>
<td>2.5</td>
<td>34.0 (10.0)</td>
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<td>32.0 (9.4)</td>
<td>32.0 (9.9)</td>
<td>2.5</td>
<td>31.8 (9.3)</td>
<td>31.5 (9.4)</td>
<td>2.5</td>
</tr>
<tr>
<td>105°(40.6)</td>
<td>36.7 (10.8)</td>
<td>36.1 (10.6)</td>
<td>2.6</td>
<td>34.3 (10.0)</td>
<td>33.6 (9.9)</td>
<td>2.6</td>
<td>32.7 (9.8)</td>
<td>32.2 (9.4)</td>
<td>2.6</td>
<td>30.7 (9.0)</td>
<td>31.0 (9.4)</td>
<td>2.6</td>
<td>29.8 (8.7)</td>
<td>29.5 (8.7)</td>
<td>2.6</td>
</tr>
<tr>
<td>110°(43.3)</td>
<td>35.3 (10.4)</td>
<td>34.7 (10.2)</td>
<td>2.5</td>
<td>32.9 (9.6)</td>
<td>32.3 (9.5)</td>
<td>2.5</td>
<td>31.4 (9.2)</td>
<td>30.8 (9.0)</td>
<td>2.5</td>
<td>29.3 (8.6)</td>
<td>28.8 (8.4)</td>
<td>2.5</td>
<td>28.6 (8.1)</td>
<td>28.1 (8.2)</td>
<td>2.5</td>
</tr>
<tr>
<td>115°(46.1)</td>
<td>33.9 (9.9)</td>
<td>33.3 (9.8)</td>
<td>2.5</td>
<td>31.4 (9.2)</td>
<td>30.8 (9.0)</td>
<td>2.5</td>
<td>30.0 (8.8)</td>
<td>29.3 (8.6)</td>
<td>2.5</td>
<td>28.3 (8.4)</td>
<td>27.9 (8.2)</td>
<td>2.5</td>
<td>27.0 (7.9)</td>
<td>26.6 (7.8)</td>
<td>2.5</td>
</tr>
<tr>
<td>120°(48.9)</td>
<td>32.4 (9.5)</td>
<td>31.8 (9.3)</td>
<td>3.0</td>
<td>29.9 (8.8)</td>
<td>29.4 (8.6)</td>
<td>3.0</td>
<td>28.6 (8.4)</td>
<td>27.9 (8.2)</td>
<td>3.0</td>
<td>26.6 (7.8)</td>
<td>25.7 (7.8)</td>
<td>3.0</td>
<td>25.8 (7.4)</td>
<td>25.0 (7.4)</td>
<td>3.0</td>
</tr>
<tr>
<td>125°(51.7)</td>
<td>30.9 (9.1)</td>
<td>30.3 (8.9)</td>
<td>3.5</td>
<td>28.4 (8.3)</td>
<td>27.9 (8.2)</td>
<td>3.5</td>
<td>27.1 (8.0)</td>
<td>26.3 (7.7)</td>
<td>3.5</td>
<td>25.5 (7.4)</td>
<td>24.7 (7.2)</td>
<td>3.5</td>
<td>24.5 (7.1)</td>
<td>24.2 (7.1)</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**NOTES:**

1. When the entering 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 (dB E – 80)].

**Designates Metric Conversions**
<table>
<thead>
<tr>
<th>OUTDOOR DRY BULB TEMPERATURE °F</th>
<th>71°F [21.7°C]</th>
<th>67°F [19.4°C]</th>
<th>63°F [17.2°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total BTUH [W]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sens BTUH [W]</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Power [W]</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Sens BTUH [W]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power [W]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sens BTUH [W]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power [W]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CFM (L/s)</th>
<th>71°F [21.7°C]</th>
<th>67°F [19.4°C]</th>
<th>63°F [17.2°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1760 [831]</td>
<td>57.9 [17.0]</td>
<td>56.9 [16.7]</td>
<td>55.3 [16.2]</td>
</tr>
<tr>
<td>1600 [755]</td>
<td>55.0 [16.1]</td>
<td>54.0 [15.8]</td>
<td>52.5 [15.4]</td>
</tr>
<tr>
<td>1360 [642]</td>
<td>52.3 [15.3]</td>
<td>51.4 [15.1]</td>
<td>50.0 [14.6]</td>
</tr>
</tbody>
</table>

**NOTES:**
1. When the entering air dry bulb is other than 80°F [26.7°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].
### Gross Systems Performance Data

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

<table>
<thead>
<tr>
<th>Air Temperature</th>
<th>Sensible BTUH [kW]</th>
<th>Power</th>
<th>Total BTUH [kW]</th>
</tr>
</thead>
<tbody>
<tr>
<td>71°F [21.7°C]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1530 [722]</td>
<td>3.6</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>1530 [722]</td>
<td>35.7 [10.5]</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>1800 [850]</td>
<td>35.7 [10.5]</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>1980 [934]</td>
<td>35.7 [10.5]</td>
<td>3.5</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**Entering Indoor Air @ 80°F [26.7°C] dbE**

<table>
<thead>
<tr>
<th>CFM (L/s)</th>
<th>Sensible BTUH [kW]</th>
<th>Power</th>
<th>Total BTUH [kW]</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 [37.8]</td>
<td>4.4</td>
<td>4.4</td>
<td>4.4</td>
</tr>
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<td>105 [40.6]</td>
<td>35.4 [10.4]</td>
<td>4.9</td>
<td>4.8</td>
</tr>
<tr>
<td>110 [43.3]</td>
<td>35.4 [10.4]</td>
<td>4.9</td>
<td>4.8</td>
</tr>
<tr>
<td>115 [46.1]</td>
<td>35.4 [10.4]</td>
<td>4.9</td>
<td>4.8</td>
</tr>
<tr>
<td>120 [48.9]</td>
<td>35.4 [10.4]</td>
<td>4.9</td>
<td>4.8</td>
</tr>
<tr>
<td>125 [51.7]</td>
<td>35.4 [10.4]</td>
<td>4.9</td>
<td>4.8</td>
</tr>
</tbody>
</table>

**Notes:**
- \( \text{DR} \) — Depressurization ratio
- \( \text{dB}E \) — Entering air dry bulb
- \( \text{wbE} \) — Entering air wet bulb

**Designates Metric Conversions**
### DIRECT-DRIVE 208 AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>CFM Setting</th>
<th>CFM [L/s]</th>
<th>Air Delivery/RPM/Watts-208/230/460 Volts</th>
<th>External Static Pressure—Inches W.C. [kPa]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.1 (.02)</td>
<td>0.2 (.05)</td>
<td>0.3 (.07)</td>
</tr>
<tr>
<td>FACTORY SETTING</td>
<td>1400</td>
<td>1393</td>
<td>1418</td>
</tr>
<tr>
<td>RPM</td>
<td>610</td>
<td>600</td>
<td>688</td>
</tr>
<tr>
<td>Watts</td>
<td>215</td>
<td>266</td>
<td>314</td>
</tr>
<tr>
<td>OPTIONAL</td>
<td>1600</td>
<td>1579</td>
<td>1599</td>
</tr>
<tr>
<td>RPM</td>
<td>676</td>
<td>734</td>
<td>793</td>
</tr>
<tr>
<td>Watts</td>
<td>302</td>
<td>349</td>
<td>404</td>
</tr>
<tr>
<td>FACTORY SETTING</td>
<td>1800</td>
<td>1738</td>
<td>1734</td>
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<tr>
<td>RPM</td>
<td>722</td>
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<tr>
<td>Watts</td>
<td>392</td>
<td>451</td>
<td>508</td>
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<tr>
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<td>2075</td>
<td>2087</td>
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<tr>
<td>RPM</td>
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<td>897</td>
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<tr>
<td>Watts</td>
<td>590</td>
<td>646</td>
<td>714</td>
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<tr>
<td>OPTIONAL</td>
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<td>2222</td>
<td>2220</td>
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<tr>
<td>RPM</td>
<td>841</td>
<td>883</td>
<td>933</td>
</tr>
<tr>
<td>Watts</td>
<td>717</td>
<td>777</td>
<td>856</td>
</tr>
</tbody>
</table>

[ ] Designates Metric Conversions
<table>
<thead>
<tr>
<th>Unit Model</th>
<th>Motor Speed From Factory</th>
<th>Heating Input BTU/hr [kW]</th>
<th>Manufacturer Recommended Air-Flow Range (Min/Max) CFM</th>
<th>Motor Speed</th>
<th>CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>10x10/1350</td>
<td>Low</td>
<td>0.1 [0.2] 0.2 [0.05] 0.3 [0.07] 0.4 [0.10] 0.5 [0.12] 0.6 [0.15] 0.7 [0.17] 0.8 [0.20]</td>
</tr>
<tr>
<td>RKPN-A036</td>
<td>Low</td>
<td>80,000 [23.45]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>120,000 [35.17]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RKPN-A048</td>
<td>Low</td>
<td>80,000 [23.45]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>100,000 [29.31]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>135,000 [39.26]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RKPN-A060</td>
<td>Low</td>
<td>100,000 [29.31]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>175,000 [51.26]</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>135,000 [38.56]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[ ] Designates Metric Conversions
## DIRECT-DRIVE 230/460 AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Unit Model</th>
<th>Motor Speed From Factory</th>
<th>Heating Input BTU/hr (kW)</th>
<th>Manufacturer Recommended Air-Flow Range (Min/Max) CFM</th>
<th>Motor Speed</th>
<th>CFM (L/s) Air Delivery/RPM/Watts-230/460 Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>RKPN-A036</td>
<td>Low</td>
<td>80,000 [23.45]</td>
<td>1050/1350</td>
<td>Low</td>
<td>CFM 1346 131 129 1287 1212 1157 969 838 Watts 596 580 557 523 483 463 401 371</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td></td>
<td></td>
<td>Hgh</td>
<td>CFM 1868 1834 1786 1719 1636 1521 1345 1037 Watts 870 839 799 754 713 657 591 503</td>
</tr>
<tr>
<td>RKPN-A048</td>
<td>Low</td>
<td>80,000 [23.45]</td>
<td>1400/1800</td>
<td>Low</td>
<td>CFM 1355 1352 1340 1318 1275 1200 1094 912 Watts 598 580 562 541 512 473 432 385</td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>100,000 [29.31]</td>
<td></td>
<td>Med</td>
<td>CFM 1504 1490 1474 1440 1396 1324 1215 1087 Watts 677 656 635 606 576 536 488 442</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>135,000 [39.56]</td>
<td></td>
<td>Hgh</td>
<td>CFM 1875 1846 1798 1740 1679 1602 1464 1268 Watts 874 842 805 765 729 688 629 559</td>
</tr>
<tr>
<td>RKPN-A090</td>
<td>Low</td>
<td>100,000 [29.31]</td>
<td>1750/2250</td>
<td>Low</td>
<td>CFM 1678 1641 1599 1557 1521 1471 1430 1384 Watts 354 364 386 409 430 456 470 491</td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td></td>
<td></td>
<td>Med</td>
<td>CFM 1842 1820 1781 1741 1703 1659 1613 1536 Watts 455 479 498 516 529 551 574 571</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td></td>
<td></td>
<td>Hgh</td>
<td>CFM 2476 2417 2336 2229 2120 1965 1816 1625 Watts 1010 989 977 918 862 781 707 620</td>
</tr>
</tbody>
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[ ] Designates Metric Conversions
## Direct-Drive 208/230/460 Airflow Performance

### RKQN Series

<table>
<thead>
<tr>
<th>Unit Model</th>
<th>Motor Speed From Factory</th>
<th>Heating Input BTU/hr (kW)</th>
<th>Manufacturer Recommended Air-Flow Range (Min/Max) CFM</th>
<th>Motor Speed</th>
<th>CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Low (Tap 2)</td>
<td>0.1 (0.2) 0.2 (0.05) 0.3 (0.07) 0.4 (0.10) 0.5 (0.12) 0.6 (0.15) 0.7 (0.17) 0.8 (0.20)</td>
</tr>
<tr>
<td>RKQN-A036</td>
<td>Low (Tap 2)</td>
<td>80,000 (23.45)</td>
<td>10x10 1/2 HP (573) 3 Speed Motor (X-13 Motor)</td>
<td>Low (Tap 2)</td>
<td>CFM 1345 1302 1260 1220 1178 1122 1076 979</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Watts</td>
<td>215 230 245 260 274 284 303 320</td>
</tr>
<tr>
<td></td>
<td>High (Tap 4)</td>
<td>120,000 (35.17)</td>
<td></td>
<td>Watts</td>
<td>261 276 291 306 320 334 348 362</td>
</tr>
<tr>
<td>RKQN-A048</td>
<td>Low (Tap 1)</td>
<td>80,000 (23.45)</td>
<td>10x10 3/4 HP (559) 4 Speed Motor (X-13 Motor)</td>
<td>Low (Tap 1)</td>
<td>CFM 1438 1398 1360 1322 1284 1245 1200 1137</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Watts</td>
<td>142 159 176 193 209 226 243 260</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Watts</td>
<td>146 163 180 197 214 235 256 277</td>
</tr>
<tr>
<td>RKQN-A060</td>
<td>Low Cool (Tap 1)</td>
<td>100,000 (29.31)</td>
<td>10x10 5 HP (745) 5 Speed Motor (X-13 Motor)</td>
<td>Low Cool (Tap 1)</td>
<td>CFM 1403 1345 1310 1269 1212 1164 1083 1028</td>
</tr>
<tr>
<td></td>
<td>High Cool (Tap 3)</td>
<td></td>
<td></td>
<td>Watts</td>
<td>232 244 255 267 283 297 315 324</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Watts</td>
<td>277 290 303 316 330 343 365 384</td>
</tr>
<tr>
<td></td>
<td>Low (Tap 2)</td>
<td>100,000 (29.31)</td>
<td>1st Stage Cool 1350/1400 2nd Stage Cool 1750/2250</td>
<td>Low (Tap 2)</td>
<td>CFM 1677 1639 1597 1559 1522 1487 1432 1390</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Watts</td>
<td>354 367 382 396 412 425 442 459</td>
</tr>
<tr>
<td></td>
<td>High (Tap 4)</td>
<td>135,000 (39.56)</td>
<td></td>
<td>Watts</td>
<td>354 367 382 396 412 425 442 459</td>
</tr>
<tr>
<td></td>
<td>Med. (Tap 3)</td>
<td></td>
<td></td>
<td>Watts</td>
<td>1795 1758 1718 1688 1645 1607 1571 1535</td>
</tr>
<tr>
<td></td>
<td>Med. (Tap 4)</td>
<td></td>
<td></td>
<td>Watts</td>
<td>429 446 459 473 493 508 525 541</td>
</tr>
</tbody>
</table>

[ ] Designates Metric Conversions
### AIRFLOW PERFORMANCE — 3 TON [10.55 kW] 3 PHASE BELT DRIVE

<table>
<thead>
<tr>
<th>Air Flow CFM [L/s]</th>
<th>Capacity 3 Ton [10.55 kW]</th>
<th>Voltage 208/230/460/575, 3-Phase</th>
<th>External Static Pressure—Inches of Water (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM</td>
<td>W</td>
<td>RPM</td>
<td>W</td>
</tr>
<tr>
<td>900 (425)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1000 (472)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1100 (519)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1200 (566)</td>
<td>643</td>
<td>278</td>
<td>690</td>
</tr>
<tr>
<td>1300 (614)</td>
<td>661</td>
<td>316</td>
<td>716</td>
</tr>
<tr>
<td>1400 (661)</td>
<td>669</td>
<td>352</td>
<td>739</td>
</tr>
<tr>
<td>1500 (708)</td>
<td>702</td>
<td>399</td>
<td>763</td>
</tr>
</tbody>
</table>

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

### COMPONENT AIR RESISTANCE

<table>
<thead>
<tr>
<th>CFM [L/s]</th>
<th>Standard Indoor Airflow—CFM [L/s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance—Inches of Water (kPa)</td>
<td></td>
</tr>
<tr>
<td>Wet Coil</td>
<td>0.035</td>
</tr>
<tr>
<td>Downflow</td>
<td>0.055</td>
</tr>
<tr>
<td>R.S.I. Economizer</td>
<td>0.05</td>
</tr>
</tbody>
</table>

NOTES:
1. Performance shown with dry coil & standard 2” [50.8 mm] filters.
2. Standard CFM @ .075 lbs./cu. ft.
3. Motor efficiency = 80%.
4. BHP = Watts x Motor Eff.

5. Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions
### Air Indoor Airflow Performance

**RKPN/RKQN Series**

Factory sheave settings are shown in bold print.

#### Drive Package

<table>
<thead>
<tr>
<th>RPM</th>
<th>W</th>
<th>RPM</th>
<th>W</th>
<th>RPM</th>
<th>W</th>
<th>RPM</th>
<th>W</th>
<th>RPM</th>
<th>W</th>
<th>RPM</th>
<th>W</th>
<th>RPM</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>966</td>
<td>1200</td>
<td>918</td>
<td>1200</td>
<td>873</td>
<td>1200</td>
<td>836</td>
<td>1200</td>
<td>800</td>
<td>1200</td>
<td>764</td>
<td>1200</td>
<td>728</td>
</tr>
<tr>
<td>1300</td>
<td>817</td>
<td>1300</td>
<td>764</td>
<td>1300</td>
<td>711</td>
<td>1300</td>
<td>661</td>
<td>1300</td>
<td>618</td>
<td>1300</td>
<td>574</td>
<td>1300</td>
<td>530</td>
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<tr>
<td>1400</td>
<td>711</td>
<td>1400</td>
<td>658</td>
<td>1400</td>
<td>606</td>
<td>1400</td>
<td>553</td>
<td>1400</td>
<td>500</td>
<td>1400</td>
<td>447</td>
<td>1400</td>
<td>404</td>
</tr>
<tr>
<td>1500</td>
<td>618</td>
<td>1500</td>
<td>566</td>
<td>1500</td>
<td>513</td>
<td>1500</td>
<td>461</td>
<td>1500</td>
<td>408</td>
<td>1500</td>
<td>355</td>
<td>1500</td>
<td>302</td>
</tr>
<tr>
<td>1600</td>
<td>529</td>
<td>1600</td>
<td>476</td>
<td>1600</td>
<td>423</td>
<td>1600</td>
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<td>1600</td>
<td>317</td>
<td>1600</td>
<td>264</td>
<td>1600</td>
<td>211</td>
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<tr>
<td>1700</td>
<td>440</td>
<td>1700</td>
<td>387</td>
<td>1700</td>
<td>334</td>
<td>1700</td>
<td>281</td>
<td>1700</td>
<td>228</td>
<td>1700</td>
<td>175</td>
<td>1700</td>
<td>122</td>
</tr>
<tr>
<td>1800</td>
<td>566</td>
<td>1800</td>
<td>513</td>
<td>1800</td>
<td>460</td>
<td>1800</td>
<td>407</td>
<td>1800</td>
<td>354</td>
<td>1800</td>
<td>301</td>
<td>1800</td>
<td>248</td>
</tr>
<tr>
<td>1900</td>
<td>692</td>
<td>1900</td>
<td>639</td>
<td>1900</td>
<td>586</td>
<td>1900</td>
<td>533</td>
<td>1900</td>
<td>480</td>
<td>1900</td>
<td>427</td>
<td>1900</td>
<td>374</td>
</tr>
</tbody>
</table>

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

### COMPONENT AIR RESISTANCE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 [472]</td>
<td>0.035</td>
<td>0.040</td>
<td>0.060</td>
<td>0.070</td>
<td>0.085</td>
<td>0.100</td>
<td></td>
</tr>
<tr>
<td>1200 [561]</td>
<td>0.055</td>
<td>0.060</td>
<td>0.066</td>
<td>0.072</td>
<td>0.080</td>
<td>0.086</td>
<td></td>
</tr>
<tr>
<td>1400 [661]</td>
<td>0.05</td>
<td>0.06</td>
<td>0.07</td>
<td>0.08</td>
<td>0.09</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>1600 [755]</td>
<td>0.05</td>
<td>0.06</td>
<td>0.07</td>
<td>0.08</td>
<td>0.09</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>1800 [850]</td>
<td>0.05</td>
<td>0.06</td>
<td>0.07</td>
<td>0.08</td>
<td>0.09</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>2000 [944]</td>
<td>0.05</td>
<td>0.06</td>
<td>0.07</td>
<td>0.08</td>
<td>0.09</td>
<td>0.10</td>
<td></td>
</tr>
</tbody>
</table>

**Resistance—Inches Water [kPa]**

| Wet Coil | 0.035 | 0.040 | 0.060 | 0.070 | 0.085 | 0.100 |
| Downflow | 0.055 | 0.060 | 0.066 | 0.072 | 0.080 | 0.086 |
| R.S.I. Economizer | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 |
| R.A. Damper | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 |

**NOTES:**

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

[ ] Designates Metric Conversions
# Airflow Performance — 5 Ton [10.55 kW] 3 Phase Belt Drive

<table>
<thead>
<tr>
<th>Airflow CFM [L/s]</th>
<th>Capacity 5 Ton [17.6 kW] 14 SEER</th>
<th>Voltage 208/230/460/575, 3-Phase</th>
<th>External Static Pressure—Inches of Water [kPa]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM</td>
<td>W</td>
<td>RPM</td>
<td>W</td>
</tr>
<tr>
<td>1400 [661]</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1500 [708]</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1600 [755]</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1700 [802]</td>
<td>—</td>
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</tr>
<tr>
<td>1800 [850]</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1900 [897]</td>
<td>716</td>
<td>491</td>
<td>778</td>
</tr>
<tr>
<td>2000 [944]</td>
<td>745</td>
<td>562</td>
<td>797</td>
</tr>
<tr>
<td>2100 [991]</td>
<td>773</td>
<td>637</td>
<td>819</td>
</tr>
<tr>
<td>2200 [1038]</td>
<td>797</td>
<td>706</td>
<td>842</td>
</tr>
<tr>
<td>2300 [1085]</td>
<td>822</td>
<td>783</td>
<td>866</td>
</tr>
<tr>
<td>2400 [1133]</td>
<td>847</td>
<td>870</td>
<td>889</td>
</tr>
<tr>
<td>2500 [1179]</td>
<td>873</td>
<td>966</td>
<td>914</td>
</tr>
</tbody>
</table>

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

**Drive Package**

- **Motor H.P. [W]**: 3/4 [559] 1 [746] N Drive (Field Supplied)

**Motor Sheave**

- **6.4" Pitch Diameter**:
  - 3/4 [559] 1 [746] 2.8" - 3.8" Pitch Diameter

**Motor Sheave**

- **2.8" - 3.8" Pitch Diameter**:
  - 3/4 [559] 1 [746] 4.0" - 5.0" Pitch Diameter

**Turns Open**

- 0 1 2 3 4 5

**RPM Range**

- 1248 1203 1163 1123 1078 1042

### Component Air Resistance

#### Standard Indoor Airflow—CFM [L/s]

- **1600 (755)**
- **1800 (850)**
- **2000 (944)**
- **2200 (1038)**
- **2400 (1133)**
- **2600 (1227)**

#### Resistance—Inches Water [kPa]

- **Wet Coil**
  - 0.070
  - 0.085
  - 0.100
  - 0.110
  - 0.120
  - 0.125

- **Downflow**
  - 0.072
  - 0.080
  - 0.086
  - 0.093
  - 0.100
  - 0.107

- **R.S.I. Economizer**
  - 0.08
  - 0.09
  - 0.10
  - 0.11
  - 0.12
  - 0.13

- **R.A. Damper**
  - 0.08
  - 0.09
  - 0.10
  - 0.11
  - 0.12

**NOTES:**

1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
2. Standard CFM @ .075 lbs./cu. ft.
3. Motor efficiency = 80%
4. BHP = Watts x Motor Eff.

5. Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions
## ELECTRICAL DATA – RKPN SERIES

<table>
<thead>
<tr>
<th>Unit Information</th>
<th>A036CK</th>
<th>A036CL</th>
<th>A036CM</th>
<th>A036DK</th>
<th>A036DL</th>
<th>A036DM</th>
<th>A036JK</th>
<th>A036YL</th>
<th>A036YM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volts</strong></td>
<td>208/230</td>
<td>208/230</td>
<td>208/230</td>
<td>460</td>
<td>460</td>
<td>460</td>
<td>208/230</td>
<td>575</td>
<td>575</td>
</tr>
<tr>
<td><strong>Minimum Circuit Ampacity</strong></td>
<td>17/17</td>
<td>16/16</td>
<td>16/16</td>
<td>11</td>
<td>10</td>
<td>10</td>
<td>24/24</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>Minimum Overcurrent Protection Device Size</strong></td>
<td>20/20</td>
<td>20/20</td>
<td>20/20</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>30/30</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>Maximum Overcurrent Protection Device Size</strong></td>
<td>25/25</td>
<td>20/20</td>
<td>20/20</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>35/35</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

### 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 | 3/4 | 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

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1. Horsepower Per Compressor.
2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.
# ELECTRICAL DATA – RKPN SERIES

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1. Horsepower Per Compressor.
2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.
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| **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** | 20/20 | 20/20 | 20/20 | 15 | 15 | 15 | 30/30 | 30/30 | 30/30 |
| **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, each)** | 71/71 | 71/71 | 71/71 | 38 | 38 | 38 | 77/77 | 83.1/83.1 | 83.1/83.1 |

|                  | A036JK | A048CL |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|        |        |        |        |        |        |
| **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** | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 | 1/3 |
| **HP** | 1.5/1.5 | 1.5/1.5 | 1.5/1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| **Amps (FLA, each)** | 3/3 | 3/3 | 3/3 | 1.9 | 1.9 | 1.9 | 3/3 | 3/3 | 3/3 |
| **Amps (LRA, each)** | 11.3/11.3 | 11.3/11.3 | 11.3/11.3 | 6.2 | 6.2 | 6.2 | 0/0 | 0/0 | 11.3/11.3 |

|                  | A036JK | A048CL |        |        |        |        |        |        |        |
|------------------|--------|--------|        |        |        |        |        |        |        |
| **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** | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| **HP** | 2.8/2.8 | 2.8/2.8 | 2.8/2.8 | 1.4 | 1.4 | 1.4 | 4.1/4.1 | 4.1/4.1 | 4.1/4.1 |
| **Amps (FLA, each)** | 6/6 | 6/6 | 6/6 | 2.8/2.8 | 2.8/2.8 | 2.8/2.8 | 2.8/2.8 | 2.8/2.8 | 2.8/2.8 |
| **Amps (LRA, each)** | 11.3/11.3 | 11.3/11.3 | 11.3/11.3 | 6.2 | 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

### Unit Information

<table>
<thead>
<tr>
<th>Unit Operating Voltage Range</th>
<th>A048CM</th>
<th>A048DK</th>
<th>A048DL</th>
<th>A048DM</th>
<th>A048JK</th>
<th>A060CK</th>
<th>A060CV</th>
<th>A060DK</th>
<th>A060DV</th>
<th>A060JK</th>
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<tbody>
<tr>
<td>Volts</td>
<td>208/230</td>
<td>460</td>
<td>460</td>
<td>460</td>
<td>208/230</td>
<td>208/230</td>
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<tr>
<td>Minimum Circuit Amperage</td>
<td>22/22</td>
<td>12</td>
<td>11</td>
<td>11</td>
<td>33/33</td>
<td>31/33</td>
<td>32/32</td>
<td>15</td>
<td>16</td>
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<td>Minimum Overcurrent Protection Device Size</td>
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<td>15</td>
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<td>40/40</td>
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<td>40/40</td>
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<td>60/60</td>
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<tr>
<td>Maximum Overcurrent Protection Device Size</td>
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<td>15</td>
<td>15</td>
<td>50/50</td>
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### Compressor Motor

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<th>RPM</th>
<th>HP, Compressor 1</th>
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<th>Amps (LRA), Comp. 1</th>
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### Condenser Motor

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<th>HP</th>
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<th>Amps (LRA, each)</th>
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<tr>
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### Evaporator Fan

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<th>Amps (LRA, each)</th>
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### Notes

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

RKPN/RKQN Series

**COMPRESSOR/CONTROL BOX ACCESS**

**FLUE OUTLET**

**BASE GAS ENTRY**

**BASE ELECTRICAL ENTRY**

**SUPPLY GAS ENTRY**

\( \frac{3}{4} '' \) [13 mm] NPT

7\( \frac{7}{8} '' \) [183 mm]

24\( \frac{1}{4} '' \) [616 mm]

**BOTTOM VIEW**

[ ] Designates Metric Conversions
SUPPLY COVER 76\(\frac{1}{4}\)" [1937 mm]
RETURN COVER
COIL/FILTER ACCESS
BLOWER ACCESS
CONDENSATE DRAIN 3/4" [19 mm] NPT FEMALE

SUPPLY AND RETURN DIMENSIONS

[ ] Designates Metric Conversions
### WEIGHS

<table>
<thead>
<tr>
<th>Accessory</th>
<th>3-5 Ton [10.6-17.6 kW]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping</td>
<td>Operating</td>
</tr>
<tr>
<td>lbs [kg]</td>
<td>lbs [kg]</td>
</tr>
<tr>
<td>Economizer with Single Enthalpy</td>
<td>71 [32]</td>
</tr>
<tr>
<td>Economizer with Smoke Detector</td>
<td>74 [34]</td>
</tr>
<tr>
<td>Roof Curb 14&quot;</td>
<td>92 [42]</td>
</tr>
<tr>
<td>Roof Curb 24&quot;</td>
<td>108 [49]</td>
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<tr>
<td>Side Discharge Concentric Diffuser RXRN-FA60</td>
<td>35 [16]</td>
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### CENTER OF GRAVITY (C.G.)

<table>
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<tr>
<th>Capacity Tons [kW]</th>
<th>A in. [mm]</th>
<th>B in. [mm]</th>
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</thead>
<tbody>
<tr>
<td>3-5 [10.6-17.6]</td>
<td>38(\frac{1}{4}) [972]</td>
<td>25(\frac{3}{4}) [654]</td>
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### CLEARANCES

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

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

<table>
<thead>
<tr>
<th>Recommended Clearance in. [mm]</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>48 [1219]</td>
<td>A - Front</td>
</tr>
<tr>
<td>18 [457]</td>
<td>B - Condenser Coil</td>
</tr>
<tr>
<td>12 [305]</td>
<td>C - Duct Side</td>
</tr>
<tr>
<td>36 [914]</td>
<td>D - Evaporator End</td>
</tr>
<tr>
<td>60 [1524]</td>
<td>E - Above</td>
</tr>
</tbody>
</table>

"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.

**NOTE:** Designates Metric Conversions
### ACCESSORY EQUIPMENT

<table>
<thead>
<tr>
<th>Accessory Description</th>
<th>Model Application 3 to 5 Ton [10.6 to 17.6 kW]</th>
<th>Accessory Model No. 3 to 5 Ton [10.6 to 17.6 kW]</th>
<th>Factory Installed 3 to 5 Ton [10.6 to 17.6 kW]</th>
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<tbody>
<tr>
<td>Thermostats</td>
<td>RKPN/RKQN</td>
<td>See Thermostat Specification Sheet (T11-001)</td>
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<td>Roofcurb, 14&quot;</td>
<td>RKPN/RKQN</td>
<td>RXKG-CAD14</td>
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<tr>
<td>Roofcurb, 24&quot;</td>
<td>RKPN/RKQN</td>
<td>RXKG-CAD24</td>
<td>No</td>
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<tr>
<td>Roofcurb Adapters</td>
<td>RKPN/RKQN</td>
<td>RXRX-BBCBD21, RXRX-BBCBD22, RXRX-BBCBD23</td>
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<tr>
<td>Economizer with Single Enthalpy</td>
<td>RKPN/RKQN</td>
<td>AXRD-01RECAM3</td>
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<tr>
<td>Economizer with Smoke Detector</td>
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<td>AXRD-01RECBM3</td>
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<td>Dual Enthalpy Kit</td>
<td>RKPN/RKQN</td>
<td>RXRX-AV04</td>
<td>No</td>
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<td>CO2 Sensor Only</td>
<td>RKPN/RKQN</td>
<td>RXRX-AR02</td>
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<td>Power Exhaust</td>
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<td>AXRX-BGF04C, D, Y</td>
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<td>RKPN/RKQN</td>
<td>AXRF-FBA1</td>
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<td>AXRF-FBB1</td>
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<td>Rectangular to Round 18&quot; Duct Adapters for Concentric Diffuser</td>
<td>RKPN/RKQN</td>
<td>RXMC-CB03</td>
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<td>Rectangular to Round 20&quot; Duct Adapters for Concentric Diffuser</td>
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<td>RXRN-FA70, RXRN-FA75</td>
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<td>RXMC-BB01</td>
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<td>Louver Kit (3 Sides) 4 &amp; 5-Ton</td>
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<td>Time Delay</td>
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<td>RXMD-B01</td>
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<td>Low Ambient Control to 0°F [-18°C]</td>
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<td>RXRZ-A04</td>
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<td>LP Conversion Kits for use with White Rodgers Gas Valve ➀</td>
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<td>LP Conversion Kits for use with Honeywell Gas Valve ➀</td>
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<td>Canadian High Altitude Kit (for Natural Gas Only) ➀</td>
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*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
Air Accessories
RKPN/RKQN Series

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, (-)RGG,
(-)RG (4-5 TON [14-18 kW])
(-)PNC, (-)PND, (-)RGH
(3½, 4 TON [12-14 kW])

[ ] Designates Metric Conversions

THERMOSTATS

200-Series *
Programmable

300-Series *
Deluxe
Programmable

400-Series *
Special Applications/
Programmable

* Photos are representative. Actual models may vary.
For detailed thermostat match-up information, see specification sheet form number T11-001.

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<th>Brand</th>
<th>Descriptor (3 Characters)</th>
<th>Series (3 Characters)</th>
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<th>Type (2 Characters)</th>
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<td>213</td>
<td>UN</td>
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<td>-</td>
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<td>200=Programmable</td>
<td>MS</td>
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<td>RHC=3am</td>
<td>-</td>
<td>TST</td>
<td>300=Deluxe Programmable</td>
<td>SS</td>
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<td>RXRA-DB21 (2)</td>
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<td>(-)RGH</td>
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For detailed thermostat match-up information, see specification sheet form number T11-001.
Roofcurb Adapters

Carrier to Rheem Roofcurb Adapter - RXRX-EACC35*
Replaces Carrier/Bryant/ICP Models:

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<tr>
<th>Carrier Models</th>
<th>Packaged G/E</th>
<th>Packaged AC</th>
<th>Packaged HP</th>
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<td>50DJ004 - 007</td>
<td>50GJ004 - 006</td>
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<td>48GJ*006</td>
<td>50GJ006</td>
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<td>48HE*003 - 006</td>
<td>50HE003 - 006</td>
<td>50HEO003 - 006</td>
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<td>48HU*004 - 007</td>
<td>50HJ004 - 007</td>
<td>50HJQ004 - 007</td>
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<td>48HM*007</td>
<td>50HM007</td>
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<td>48LJ*004 - 007</td>
<td>50LJ004 - 007</td>
<td>50LJQ004 - 006</td>
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<td>48TC*004 - 007</td>
<td>50TC004 - 007</td>
<td>50TCQ004 - 007</td>
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<td>50TF004 - 007</td>
<td>50TFQ004 - 007</td>
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<td>48TM*004 - 007</td>
<td>50TM004 - 007</td>
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<thead>
<tr>
<th>Bryant Models</th>
<th>Packaged G/E</th>
<th>Packaged AC</th>
<th>Packaged HP</th>
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<tbody>
<tr>
<td>581B*V036 – 072</td>
<td>551B*X036 – 072</td>
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<tr>
<td>580C*V036 – 072</td>
<td>558C*X036 – 072</td>
<td>548C*X036 – 060</td>
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<td>580D*V036 – 072</td>
<td>558D*X036 – 072</td>
<td>548D*X036 – 072</td>
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<td>580F*V036 – 072</td>
<td>558F*X036 – 072</td>
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<td>580J*04 - 07</td>
<td>558J*04 – 07</td>
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<th>Packaged HP</th>
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<td>PAE036 – 072</td>
<td>PHE072</td>
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</tr>
<tr>
<td>PGH036 – 072</td>
<td>PAH036 – 072</td>
<td>PHH036 – 072</td>
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</tr>
<tr>
<td>PGS072</td>
<td>PAS072</td>
<td>PHS072</td>
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<tr>
<td>RGS036 – 072</td>
<td>RAS036 - 072</td>
<td>RHS036 – 072</td>
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*RXRX-EACC35 Carrier to Rheem roofcurb adapter requires high static “M” drive for all tonnages.

Trane to Rheem Roofcurb Adapter - RXRX-EACT35
Replaces Trane Models:

<table>
<thead>
<tr>
<th>Trane Models</th>
<th>Packaged G/E</th>
<th>Packaged AC</th>
<th>Packaged HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>YCD-036,037, 048,049,060</td>
<td>TCD-036,037, 048,049,060</td>
<td>WCD-036,037, 048,049,060</td>
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</table>

<table>
<thead>
<tr>
<th>Model #</th>
<th>CFM</th>
<th>Static Pressure</th>
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<tr>
<td>RXRX-EACT35</td>
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<tr>
<td>1000</td>
<td>.08</td>
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<tr>
<td>1200</td>
<td>.10</td>
<td></td>
</tr>
<tr>
<td>1400</td>
<td>.15</td>
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<tr>
<td>1600</td>
<td>.18</td>
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<td>1800</td>
<td>.21</td>
<td></td>
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<tr>
<td>2000</td>
<td>.25</td>
<td></td>
</tr>
<tr>
<td>2200</td>
<td>.30</td>
<td></td>
</tr>
</tbody>
</table>

[ ] Designates Metric Conversions
ROOFCURBS (Full Perimeter)

- Rheem's new roof curb 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 Roof curb.
- Packaged for easy field assembly.

<table>
<thead>
<tr>
<th>Roofcurb Model</th>
<th>Height of Curb</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXKG-CAD14</td>
<td>14&quot; [356 mm]</td>
</tr>
<tr>
<td>RXKG-CAD24</td>
<td>24&quot; [610 mm]</td>
</tr>
</tbody>
</table>

[ ] Designates Metric Conversions

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
RXRX-AV04—3-5 Ton [10.6-17.6 kW] Models
RXRX-AR02—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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>No. of Fans</th>
<th>Volts</th>
<th>Phase</th>
<th>Watts (ea.)</th>
<th>High Speed</th>
<th>FLA (ea.)</th>
<th>LRA (ea.)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CFM (➀)</td>
<td>RPM</td>
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<tr>
<td>AXRX-BGF04C</td>
<td>1</td>
<td>208-230</td>
<td>1</td>
<td>1000</td>
<td>2500</td>
<td>1725</td>
<td>4.4</td>
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<tr>
<td>AXRX-BGF04D</td>
<td>1</td>
<td>460</td>
<td>1</td>
<td>800</td>
<td>2370</td>
<td>1620</td>
<td>1.8</td>
</tr>
<tr>
<td>AXRX-BGF04Y</td>
<td>1</td>
<td>575</td>
<td>1</td>
<td>800</td>
<td>2370</td>
<td>1620</td>
<td>1.5</td>
</tr>
</tbody>
</table>

➀ 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)
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

PLACE 1/8" [3 mm] X 1/8" [13 mm] GASKET
ON UNDERSIDE OF 1 1/2" [38 mm] FLANGE
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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>Duct Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXRN-FA60</td>
<td>47⅛” [1210 mm]</td>
<td>23⅛” [600 mm]</td>
<td>11⅛” [289 mm]</td>
<td>21⅛” [546 mm]</td>
<td>45⅛” [1156 mm]</td>
<td>22⅛” [572 mm]</td>
<td>11⅛” [292 mm]</td>
<td>10⅛” [273 mm]</td>
<td>45⅛” [1156 mm]</td>
<td>21⅛” [546 mm]</td>
<td>7⅛” [181 mm]</td>
<td>18RD</td>
</tr>
<tr>
<td>RXRN-FA65</td>
<td>47⅛” [1210 mm]</td>
<td>29⅛” [752 mm]</td>
<td>14⅛” [365 mm]</td>
<td>27⅛” [699 mm]</td>
<td>45⅛” [1156 mm]</td>
<td>22⅛” [572 mm]</td>
<td>11⅛” [292 mm]</td>
<td>13⅛” [349 mm]</td>
<td>45⅛” [1156 mm]</td>
<td>27⅛” [699 mm]</td>
<td>8⅛” [206 mm]</td>
<td>20RD</td>
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ENGINEERING DATA

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<tr>
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<td>351</td>
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<td>20</td>
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<tr>
<td>1200 [566]</td>
<td>.17</td>
<td>11-18</td>
<td>421</td>
<td>421</td>
<td>20</td>
<td></td>
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<tr>
<td>1400 [661]</td>
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<td>12-19</td>
<td>491</td>
<td>491</td>
<td>20</td>
<td></td>
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<tr>
<td>1600 [755]</td>
<td>.24</td>
<td>12-20</td>
<td>561</td>
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<tr>
<td>1800 [850]</td>
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<td>13-21</td>
<td>632</td>
<td>632</td>
<td>20</td>
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<tr>
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<td>14-23</td>
<td>702</td>
<td>702</td>
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<tr>
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<td>669</td>
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<td>720</td>
<td>720</td>
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<td>3000 [1416]</td>
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<td>3200 [1510]</td>
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<td>623</td>
<td>623</td>
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[ ] 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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>F</th>
<th>G</th>
<th>H</th>
<th>Duct Size</th>
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<td>23½&quot;</td>
<td>13½&quot;</td>
<td>21&quot;</td>
<td>45°</td>
<td>22½°</td>
<td>111/4&quot;</td>
<td>10½&quot;</td>
<td>18RD</td>
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<tr>
<td></td>
<td>[1210 mm]</td>
<td>[600 mm]</td>
<td>[343 mm]</td>
<td>[533 mm]</td>
<td>[1143 mm]</td>
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<td>[267 mm]</td>
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<td>29½&quot;</td>
<td>16½&quot;</td>
<td>27°</td>
<td>45°</td>
<td>22½°</td>
<td>111/4&quot;</td>
<td>13½&quot;</td>
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<td>[1210 mm]</td>
<td>[752 mm]</td>
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<td>[666 mm]</td>
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ENGINEERING DATA

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<tbody>
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<td>17-24</td>
<td>547</td>
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<td>RXRN-FA75</td>
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<td>19-24</td>
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<td>20-28</td>
<td>714</td>
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<td>22-29</td>
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<td>3400 [1605]</td>
<td>.37</td>
<td>22-30</td>
<td>667</td>
<td>1692</td>
<td>40</td>
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</tbody>
</table>

[ ] Designates Metric Conversions
GUIDE SPECIFICATIONS RKPN/RKQN-A036 thru A060
You may copy this document directly into your building specification. This specification is written to comply with the 2004 version of the "master-format" as published by the Construction Specification Institute. www.csinet.org.

GAS HEAT PACKAGED ROOFTOP
HVAC Guide Specifications
Size Range: 3 to 5 Nominal Tons

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 06 80</td>
<td>Schedules for Decentralized HVAC Equipment</td>
</tr>
<tr>
<td>23 06 80.13</td>
<td>Decentralized Unitary HVAC Equipment Schedule</td>
</tr>
<tr>
<td>23 06 80.13.A</td>
<td>Rooftop unit schedule</td>
</tr>
<tr>
<td></td>
<td>1. Schedule is per the project specification requirements.</td>
</tr>
<tr>
<td>23 07 16</td>
<td>HVAC Equipment Insulation</td>
</tr>
<tr>
<td>23 07 16.13</td>
<td>Decentralized, Rooftop Units:</td>
</tr>
<tr>
<td></td>
<td>1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick,</td>
</tr>
<tr>
<td></td>
<td>minimum 1-1/2 lb density, flexible fiberglass insulation bonded with a</td>
</tr>
<tr>
<td></td>
<td>phenolic binder, with aluminum foil facing on the air side.</td>
</tr>
<tr>
<td></td>
<td>2. Insulation and adhesive shall meet NFPA 90A requirements for flame</td>
</tr>
<tr>
<td></td>
<td>spread and smoke generation.</td>
</tr>
<tr>
<td>23 09 13</td>
<td>Instrumentation and Control Devices for HVAC</td>
</tr>
<tr>
<td>23 09 13.23</td>
<td>Sensors and Transmitters:</td>
</tr>
<tr>
<td>23 09 13.23.A</td>
<td>Thermostats</td>
</tr>
<tr>
<td></td>
<td>1. Thermostat must</td>
</tr>
<tr>
<td></td>
<td>a. have capability to energize 2 different stages of cooling, and 1 stage</td>
</tr>
<tr>
<td></td>
<td>of heating.</td>
</tr>
<tr>
<td></td>
<td>b. must include capability for occupancy scheduling.</td>
</tr>
<tr>
<td>23 09 33</td>
<td>Electric and Electronic Control System for HVAC</td>
</tr>
<tr>
<td>23 09 33.13</td>
<td>Decentralized, Rooftop Units:</td>
</tr>
<tr>
<td>23 09 33.13.A</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>1. Shall be complete with self-contained low-voltage control circuit.</td>
</tr>
<tr>
<td></td>
<td>Transformer size is 40VA.</td>
</tr>
<tr>
<td></td>
<td>2. Shall utilize color-coded wiring.</td>
</tr>
<tr>
<td></td>
<td>3. Unit shall provide “pigtail” termination points for connection of control</td>
</tr>
<tr>
<td></td>
<td>wiring.</td>
</tr>
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<td></td>
<td>4. The heat exchanger shall be controlled by an integrated furnace controller</td>
</tr>
<tr>
<td></td>
<td>(IFC) microprocessor. See heat exchanger section of this specification.</td>
</tr>
<tr>
<td>23 09 33.13.B</td>
<td>Safeties:</td>
</tr>
<tr>
<td></td>
<td>1. Compressor over-temperature, over current.</td>
</tr>
<tr>
<td></td>
<td>2. Loss of charge switch.</td>
</tr>
<tr>
<td></td>
<td>3. High-pressure switch.</td>
</tr>
<tr>
<td></td>
<td>5. Heating section shall be provided with the following minimum protections.</td>
</tr>
<tr>
<td></td>
<td>a. High-temperature limit switches.</td>
</tr>
<tr>
<td></td>
<td>b. Induced draft motor pressure switch.</td>
</tr>
<tr>
<td></td>
<td>c. Flame rollout switch.</td>
</tr>
<tr>
<td></td>
<td>d. Flame proving controls.</td>
</tr>
<tr>
<td>23 09 93</td>
<td>Sequence of Operations for HVAC Controls</td>
</tr>
<tr>
<td>23 09 93.13</td>
<td>Decentralized, Rooftop Units:</td>
</tr>
<tr>
<td>23 09 93.13</td>
<td>INSERT SEQUENCE OF OPERATION</td>
</tr>
<tr>
<td>23 40 13</td>
<td>Panel Air Filters</td>
</tr>
<tr>
<td>23 40 13.13</td>
<td>Decentralized, Rooftop Units:</td>
</tr>
<tr>
<td>23 40 13.13.A</td>
<td>Standard filter section</td>
</tr>
<tr>
<td></td>
<td>1. Shall consist of factory-installed, low velocity, throwaway 1-in. thick</td>
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<td></td>
<td>fiberglass filters of commercially available sizes.</td>
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<td></td>
<td>2. Unit shall use only one filter size. Multiple sizes are not acceptable.</td>
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<td></td>
<td>3. Filter face velocity shall not exceed 365 fpm at nominal airflows.</td>
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<td></td>
<td>4. Filters shall be accessible through an access panel as described in the</td>
</tr>
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<td></td>
<td>unit cabinet section of the specification (23 81 19.13.H).</td>
</tr>
<tr>
<td></td>
<td>5. Filter rack will also accept 2-in thick fiberglass filters of commercially</td>
</tr>
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<td></td>
<td>available sizes by removal of a tab.</td>
</tr>
<tr>
<td>23 81 19</td>
<td>Self-Contained Air Conditioners</td>
</tr>
<tr>
<td>23 81 19.13</td>
<td>Small-Capacity Self-Contained Air Conditioners</td>
</tr>
<tr>
<td>23 81 19.13.A</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>1. Outdoor, rooftop mounted, electrically controlled, heating and cooling</td>
</tr>
<tr>
<td></td>
<td>unit utilizing a hermetic scroll compressor for cooling duty and gas</td>
</tr>
<tr>
<td></td>
<td>combustion for heating duty.</td>
</tr>
<tr>
<td></td>
<td>2. Factory assembled, single-piece heating and cooling rooftop unit.</td>
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<td></td>
<td>Contained within the unit enclosure shall be all factory wiring, piping,</td>
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<td></td>
<td>controls, and special features required prior to field start-up.</td>
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<td></td>
<td>3. Unit shall use environmentally safe, R-410A refrigerant.</td>
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<td></td>
<td>4. Unit shall be installed in accordance with the manufacturer’s instructions.</td>
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<td></td>
<td>5. Unit must be selected and installed in compliance with local, state, and</td>
</tr>
<tr>
<td></td>
<td>federal codes.</td>
</tr>
</tbody>
</table>
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.
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.
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 x 10^5 sccs of 100% helium at 200 psig, and qualified to UL 1995 burst test at 1950 psig.
   c. Evaporator coil includes internal distributor plate to prevent mal-distribution of two-phase refrigerant.

23 81 19.13.k. Refrigerant Components
1. Refrigerant circuit shall include the following control, safety, and maintenance features:
   a. Thermal Expansion Valves (TXV).
   b. Refrigerant filter drier.
   c. Service gauge connections on suction and liquid lines.
   d. External pressure gauge ports access shall be located in front exterior of cabinet.
2. Compressors
   a. Unit shall use one fully hermetic, scroll compressor.
   b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
   c. Compressors shall be internally protected from high discharge temperature conditions.
   d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
   e. Compressor shall be factory mounted on rubber grommets.
   f. Compressor motors shall have internal line break thermal and current overload protection along with high pressure differential protection.
   g. Crankcase heaters shall not be required for normal operating range.

23 81 19.13.l. Filter Section
1. Filters access is specified in the unit cabinet section of this specification.
2. Shall consist of factory-installed, low velocity, throw-away 1-in. thick fiberglass filters.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be standard, commercially available sizes.
5. Only one size filter per unit is allowed.
6. Filter rack will also accept 2-in thick fiberglass filters of commercially available sizes by removal of a tab.

23 81 19.13.m. Evaporator Fan and Motor
1. Evaporator fan motor:
   a. Shall have permanently lubricated bearings.
   b. Shall have inherent automatic-reset thermal overload protection.
   c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
2. Belt-driven Evaporator Fan:
   a. Belt drive shall include an adjustable-pitch motor pulley.
   b. Shall use sealed, permanently lubricated ball-bearing type.
   c. Blower fan shall be double-inlet type with forward-curved blades.
   d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

3. High-Static Belt-driven Evaporator Fan Motor(s) and Drive(s):
   a. High-static motor(s) and drive(s) shall be factory-installed to provide additional performance range.

23 81 19.13.N. Condenser Fans and Motors
1. Condenser fan motors:
   a. Shall be a totally enclosed motor.
   b. Shall use permanently lubricated bearings.
   c. Shall have inherent thermal overload protection with an automatic reset feature.
   d. Shall use a shaft-down design. Shaft-up designs including those with “rain-slinger devices” shall not be allowed.

2. Condenser Fans shall:
   a. Shall be a direct-driven propeller type fan
   b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

23 81 19.13.O. Special Features
1. Integrated Economizers:
   a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
   b. Module designed for vertical or horizontal return configurations. Vertical return configuration shall be available as a factory installed option.
   c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
   d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
   e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
   f. Shall be capable of introducing up to 100% outdoor air.
   g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air. The barometric relief damper shall include seals, hardware and hoods to relieve building pressure. Damper shall gravity close upon unit shut down.
   h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
   i. An outdoor single-enthalpy sensor shall be provided as standard. Outdoor air enthalpy set point shall be adjustable and shall range from the enthalpy equivalent of 59.2°F @ 50% rh to 74.8°F @ 50% rh. Additional sensor options shall be available as accessories.
   j. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 50%, with a range of 0% to 100%.
   k. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
   l. Economizer controller shall accept a 2-10Vdc 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 electromechanical units shall be Honeywell W7220 that provides:
      i. 2-line LCD interface screen for setup, configuration and troubleshooting
      ii. Onboard fault detection and diagnostics
      iii. Sensor failure loss of communication identification
      iv. Automatic sensor detection
      v. Utilize digital sensors: Dry bulb and Enthalpy
      vi. Adjustable Compressor lockout setpoint shall open at 35°F and close at 50°F.

2. Two-Position Damper
   a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable % open setpoint.
   b. Damper shall include adjustable damper travel from 25% to 100% (full open).
   c. Damper shall include single or dual blade, gear driven damper and actuator motor.
   d. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
   e. Damper will admit up to 100% outdoor air for applicable rooftop units.
   f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
   g. The damper actuator shall plug into the rooftop unit’s wiring harness plug. No hard wiring shall be required.
   h. Outside air hood shall include aluminum water entrainment filter.
3. Manual Damper
   a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year-round ventilation.

4. Head Pressure Control Package
   a. Controller shall control coil head pressure by condenser-fan cycling.

5. Condenser Coil Hail Guard Assembly
   a. Shall protect against damage from hail. b. Shall be louvered design.

6. Thru-the-Base Connectors:
   a. Kits shall provide connectors to permit 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 controller.

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.

    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.
NOTES

COMPONENT CODES

WIRE COLOR CODE

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

WIRING INFORMATION

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.

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

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

ORIGINAL RELEASE
NO.:

ELECTRICAL WIRING DIAGRAM

MODELED BY:
CHECKED:
APPROVED:

REV:
PART NO.:
DATE:

R-1058S007
90-23596-38
2-11-13

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

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. 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. CONTACTOR 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. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT 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. WIRED FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
11. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

ALCB, ALC, CT, DISC, FLMSFT, GL, GND, GV, HPC, IBM, IDM, IF, LC, LPC, MRLC, N, PC, OFF, OM, PL, RC, SET, DC, WN, MGR (J3)
NOTES

COMPONENT CODES

WIRE COLOR CODE

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

WIRING INFORMATION

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.

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

FIELD INSTALLED
-FACTORY STANDARD
-FACTORY OPTION
-FACTORY STANDARD

ORIGINAL RELEASE
NO.:

ELECTRICAL WIRING DIAGRAM
MODELED BY:
CHECKED:
APPROVED:

REV:
PART NO.:
DATE:

R-1058S007
90-23596-44
2-11-13

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

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. 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. CONTACTOR 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. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT 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. WIRED FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
11. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.
NOTES COMPONENT CODES

WIRE COLOR CODE

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

WIRING INFORMATION

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.

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

FIELD INSTALLED
- FACTORY STANDARD

LOW VOLTAGE
- FIELD INSTALLED
- FACTORY OPTION
- FACTORY STANDARD

LINE VOLTAGE
- FACTORY STANDARD

ORIGINAL RELEASE
NO.:

ELECTRICAL WIRING DIAGRAM
MODELED BY:
CHECKED:
APPROVED:
REV:
PART NO.:
DATE:

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

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. 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. CONTACTOR 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. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT 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. WIRED FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.

10. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.

ALC
BRCC
COMP
CT
DISCFLMSFT
GL
GND
GVHPCIBM
IDM
IFCLAC
LC
LPC
MRLCNPCOFM
PL
RC
SESRTDC
WN

AUX. LIMIT CONTROL
BLOWER RELAY
COMPRESSOR CONTACTOR
COMPRESSOR
CONTROL TRANSFORMER
DISCONNECT SWITCH
FLAME SENSOR
FREEZE STAT
GROUND LUG
GROUND
GAS VALVE
HIGH PRESSURE CONTROL
INDOOR BLOWER MOTOR
DIRECT DRIVE
INDUCED DRAFT MOTOR
INTEGRATED FURNACE CONTROL
LOW AMBIENT COOLING CONTROL
LIMIT CONTROL
LOW PRESSURE CONTROL
MANUAL RESET LIMIT CONTROL
NEGATIVE PRESSURE CONTROL
OUTDOOR FAN MOTOR
PLUG
RUN CAPACITOR
SPARK ELECTRODE
START RELAY
TIME DELAY CONTROL
WIRE NUT

WIRING INFORMATION
NOTES

COMPONENT CODES

WIRE COLOR CODE

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

WIRING INFORMATION

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.

REPLACEMENT WIRE

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

FIELD INSTALLED

- FACTORY STANDARD

LOW VOLTAGE

- FIELD INSTALLED

- FACTORY OPTION

- FACTORY STANDARD

LINE VOLTAGE

ORIGINAL RELEASE

NO.

ELECTRICAL WIRING DIAGRAM

MODELED BY:

CHECKED:

APPROVED:

REV:

PART NO.

DATE:

R-1058S011

90-23596-50

6-24-13

03

208 / 230, 3 PHASE

CV DRIVE W/ EON-MOTOR

2-STAGE

ALCBCCC

COMP

CT

FLMSFTGL

GND

GV

HPCIBMIBM CB

IDM

IFC

LACLC

LPC

MRLC

NPCOFMPL

RC

SE

TDCWN

AUX. LIMIT CONTROL

BLOWER CONTACTOR

COMPRESSOR CONTACTOR

COMPRESSOR CONTROL TRANSFORMER

FLAME SENSOR

FREEZE STAT

GROUND LUG

GAS VALVE

HIGH PRESSURE CONTROL

INDOOR BLOWER MOTOR CV DRIVE

INDOOR BLOWER MOTOR CONTROL BOARD

INDUCED DRAFT MOTOR

INTEGRATED FURNACE CONTROL

LOW AMBIENT COOLING CONTROL

LIMIT CONTROL

LOW PRESSURE CONTROL

MANUAL RESET LIMIT CONTROL

NEGATIVE PRESSURE CONTROL

OUTDOOR FAN MOTOR

PLUG

RUN CAPACITOR

SPARK ELECTRODE

TIME DELAY CONTROL

WIRE NUT

MGR

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. 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. CONTACTOR 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...

(7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.

10. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.
Air Wiring Diagrams
RKPN/RKQN Series

NOTES COMPONENT CODES
WIRE COLOR CODE
BK......BLACK
BR......BROWN
BL.......BLUE
G........GREEN
GY......GRAY
O........ORANGE
PR......PURPLE
R........RED
W.......WHITE
Y........YELLOW

WIRING INFORMATION
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.

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

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

LINE VOLTAGE

ORIGINAL RELEASE
NO.:

ELECTRICAL WIRING DIAGRAM
MODELED BY:
CHECKED:
APPROVED:
REV:
PART NO.:
DATE:

ALC
BCCCCOMPCTDISCFLMSFTFUGFCOGLGNDHPCIBMIDMIDRIFCLAC
LC
LPCMRLCNPCOFMPLRCSDSESDTTDCWN

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

LIMIT CONTROL
LOW PRESSURE CONTROL
MANUAL RESET LIMIT CONTROL
NEGATIVE PRESSURE CONTROL
OUTDOOR FAN MOTOR
PLUG
RUN CAPACITOR
SMOKE DETECTOR
PART ELECTRODE
STEPDOWN TRANSFORMER
TIME DELAY CONTROL
WIRE NUT

460V X-DRIVE MOTOR
DV DRIVE W/ EON BLOWER
2-STAGE
90-20308-51
MGR 6-25-13 R-1058S011

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. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
4. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
5. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
6. ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
7. CONTROL TRANSFORMER PRIMARY LEADS: BLUE-COMMON: BK/RED-460V. 60 HZ./380V. 50 HZ.: RED-575V. 60 HZ./415V. 50 HZ.
8. WIRES FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
9. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY (J3)
Air Wiring Diagrams
RKPN/RKQN Series

NOTES

WIRE COLOR CODE

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

WIRING INFORMATION

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.

REPLACEMENT WIRE
- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C. MIN.)
- FIELD INSTALLED
- FACTORY STANDARD
- LOW VOLTAGE
- FIELD INSTALLED
- FACTORY OPTION
- FACTORY STANDARD
- LINE VOLTAGE

ORIGINAL RELEASE
- NO.:

ELECTRICAL WIRING DIAGRAM
MODELED BY:
CHECKED:
APPROVED:
REV:
PART NO.:
DATE:

208 / 230, 3 PHASE, 60 Hz
BELT DRIVE

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. 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. CONTACTOR 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. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT 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. WIRED FROM PL2 (6 & 9) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.

10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

11. REMOVE JUMPER FOR FIELD INSTALLED OCCUPANCY RELAY.
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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Period</th>
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<tbody>
<tr>
<td>Compressor, 3-Phase, Commercial</td>
<td>Five (5) Years</td>
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<tr>
<td>Applications</td>
<td></td>
</tr>
<tr>
<td>Parts, 3-Phase, Commercial</td>
<td>One (1) Year</td>
</tr>
<tr>
<td>Applications</td>
<td></td>
</tr>
<tr>
<td>Factory Standard Heat Exchanger</td>
<td>Ten (10) Years</td>
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<tr>
<td>3-Phase, Commercial Applications</td>
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</tr>
<tr>
<td>Stainless Steel Heat Exchanger</td>
<td>Twenty (20) Years</td>
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<tr>
<td>3-Phase, Commercial Applications</td>
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