KEH “C” Generation
Condensing Units

Indoor/Outdoor Air-Cooled Hermetic Condensing Units

1/2 to 3 HP - Medium and Low Temperature Refrigeration

CONTENTS

Nomenclature................................................................................................................ 2
Features, Options and Pre-Selected Option Packages................................................ 2 - 3
SMARTSPEED® Fan Motor Technology .................................................................... 4
Capacity Data (Imperial and Metric)........................................................................... 5 - 8
Electrical Data............................................................................................................. 9
Dimensional Data...................................................................................................... 10 - 12
Specifications.......................................................................................................... 12
Wiring Diagrams....................................................................................................... 13 - 15
Wiring Diagrams - Models with SMARTSPEED® .................................................. 16
Project Information.................................................................................................. 19
Product Support Resources...................................................................................... BACK

NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.
**STANDARD FEATURES**

**Indoor Unit:**
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Welded-hermetic compressor
- High efficiency enhanced tube and fin condenser design
- Pre-formed piping
- Quiet fan motor operation
- Energy efficient PSC condenser fan motor
- Electrical control panel away from air flow stream
- Wide-open front design, spring latches and handle on 5Hp MT & HT or larger
- Unit leak tested and shipped with helium holding charge
- Painted cabinet

**Outdoor Unit: All Standard Features of Indoor Unit, Plus:**
- Receiver with fusible plug and liquid shut off valve
- Suction service valve
- Copper tubing secured with cushion clamps
- Fixed high and low pressure control
- Painted weather-resistant housing with removable hood
- Flooded head pressure control (non adjustable)
- Crankcase heater
PRE-SELECTED FACTORY MOUNTED OPTION PACKAGES

Package A:
- Standard Features (see pg. 2)

Package B:
- Standard Features (see pg. 2)
  - Plus Sealed Liquid Line Filter Drier & Sight Glass

Package C:
- Standard Features (see pg. 2)
  - Plus Sealed Liquid Line Filter Drier & Sight Glass
  - Plus Suction Accumulator
  - Plus Electric Defrost Kit

Package D:
- Standard Features (see pg. 2)
  - Plus Sealed Liquid Line Filter Drier & Sight Glass
  - Plus Heated and Insulated Receiver

Package E:
- Standard Features (see pg. 2)
  - Plus Sealed Liquid Line Filter Drier & Sight Glass
  - Plus Heated and Insulated Receiver
  - Plus Suction Accumulator
  - Plus Electric Defrost Kit

Package F:
- Standard Features (see pg. 2)
  - Plus Sealed liquid line filter drier and sight glass
  - Plus Electric Defrost Kit

Package G:
- Standard Features (see pg. 2)
  - Plus Sealed liquid line filter drier and sight glass
  - Plus Electric Defrost Kit
  - Plus Heated and insulated receiver

Package H:
- Standard Features (see pg. 2)
  - Plus Sealed Liquid Line Filter Drier and Sight Glass
  - Plus Timeclock

Package J:
- Standard Features (see pg. 2)
  - Plus Sealed Liquid Line Filter Drier and Sight Glass
  - Plus Heated and insulated receiver
  - Plus Suction Accumulator

AVAILABLE OPTIONS

- Sealed suction filter
- Suction accumulator
- Suction accumulator with boil-out coil
- Heated and insulated receiver
- Sealed liquid line filter drier and sight glass
- Liquid line solenoid valve with 230-volt coil (shipped loose)
- Compressor circuit breaker
- Compressor time delay relay
- Variable speed EC motors only as head pressure control (see Bulletin K40-HPC-AG or https://docs.k-rp.com/1101110.pdf for details)
- QuickVac Evacuation and Refrigerant Recovery Valves
- SmartSpeed Fan Motor Technology (see page 4)
- Pump down toggle switch
- Electric defrost kit with mechanical time clock and contactors, as required
- Hoffman variable fan speed control
- Lockout control circuit relay (for liquid solenoid valve)
- Disconnect switch (fused or non-fused)
- Electronic phase / voltage monitor
- Leg kit or air discharge hood

NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.
DESIGN FEATURES

- Available on 1/2 - 3.5 HP Hermetic, Scroll or Semi-Hermetic Condensing Units

- No special controls required. No worries about wind or cold climates.

- Ambients above 55°F - EC motor operates at full speed, crankcase heater and heated + insulated receiver disabled from control circuit

- Ambients below 55°F - EC motor operates at low speed, crankcase heater and heated + insulated receiver enabled from control circuit

Condensing Unit EER - Standard Unit vs. SmartSpeed

* BIN ANALYSIS SHOWS AN AVERAGE OF 10% SAVINGS OVER THE RANGE OF THE YEAR

Refer to Page 16 For Wiring Details
### CAPACITY DATA - MEDIUM TEMPERATURE

#### 60Hz

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SATURATED SUCTION TEMPERATURE °F</th>
<th>CAPACITY BTU/H (WATTS)</th>
<th>R448A</th>
<th>AMBIENT TEMPERATURE °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEHA006M8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEHA008M8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEHA009M8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEHA010M8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEHA011M8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEHA013M8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

- To convert to dew point ratings, use 0.95 multiplier.

For R448A, use R448A data.
## CAPACITY DATA - R407C
### MEDIUM TEMPERATURE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SATURATED SUCTION TEMPERATURE</th>
<th>CAPACITY BTU/H (WATTS)</th>
<th>AMBIENT TEMPERATURE °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEHA006M8</td>
<td>80 (26.0)</td>
<td>10010 (2930)</td>
<td>3800°F</td>
</tr>
<tr>
<td></td>
<td>85 (29.4)</td>
<td>10780 (2930)</td>
<td>3800°F</td>
</tr>
<tr>
<td></td>
<td>90 (32.2)</td>
<td>10860 (2930)</td>
<td>3800°F</td>
</tr>
<tr>
<td></td>
<td>95 (35.0)</td>
<td>10880 (2930)</td>
<td>3800°F</td>
</tr>
<tr>
<td></td>
<td>100 (37.8)</td>
<td>10900 (2930)</td>
<td>3800°F</td>
</tr>
<tr>
<td></td>
<td>105 (40.6)</td>
<td>10920 (2930)</td>
<td>3800°F</td>
</tr>
<tr>
<td></td>
<td>110 (43.3)</td>
<td>10940 (2930)</td>
<td>3800°F</td>
</tr>
</tbody>
</table>

**NOTES:**
- Above ratings are based on mean temperature.
- To convert to dew point ratings, use 0.95 multiplier.

**NOTE:** Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.
### CAPACITY DATA - R404A / R507

#### MEDIUM TEMPERATURE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>KEH</th>
<th>SATURATED SUCCTION TEMPERATURE</th>
<th>CAPACITY BTU/H (Watts)</th>
<th>R404A</th>
<th>R507</th>
<th>AMBIENT TEMPERATURE °F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>°F</td>
<td>(26.6)</td>
<td>(29.4)</td>
<td>(32.2)</td>
<td>(35.0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80</td>
<td>90</td>
<td>100</td>
<td>105</td>
<td>110</td>
</tr>
<tr>
<td>KEHA006M8</td>
<td></td>
<td>30 (-1.1)</td>
<td>7970 (2335)</td>
<td>7260 (2127)</td>
<td>6890 (2019)</td>
<td>6520 (1910)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 (-3.9)</td>
<td>7290 (2136)</td>
<td>6650 (1948)</td>
<td>6310 (1849)</td>
<td>5960 (1746)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 (-6.7)</td>
<td>6505 (1964)</td>
<td>6060 (1766)</td>
<td>5750 (1685)</td>
<td>5450 (1597)</td>
</tr>
<tr>
<td>Compressor Model RST45C1E*</td>
<td></td>
<td>15 (-9.4)</td>
<td>6040 (1770)</td>
<td>5780 (1694)</td>
<td>5500 (1612)</td>
<td>5230 (1532)</td>
</tr>
<tr>
<td></td>
<td>10 (-12.2)</td>
<td>5450 (1597)</td>
<td>5220 (1529)</td>
<td>4970 (1456)</td>
<td>4730 (1386)</td>
<td>4470 (1310)</td>
</tr>
<tr>
<td></td>
<td>0 (-15.0)</td>
<td>4890 (1433)</td>
<td>4460 (1371)</td>
<td>4140 (1307)</td>
<td>3820 (1242)</td>
<td>3490 (1177)</td>
</tr>
<tr>
<td></td>
<td>-5 (-20.6)</td>
<td>4370 (1280)</td>
<td>4170 (1222)</td>
<td>3970 (1165)</td>
<td>3770 (1105)</td>
<td>3570 (1046)</td>
</tr>
<tr>
<td></td>
<td>-10 (-23.3)</td>
<td>3670 (1075)</td>
<td>3510 (1028)</td>
<td>3340 (979)</td>
<td>3160 (926)</td>
<td>2980 (873)</td>
</tr>
<tr>
<td>KEHA008M8</td>
<td></td>
<td>30 (-1.1)</td>
<td>9400 (2754)</td>
<td>8930 (2616)</td>
<td>8450 (2476)</td>
<td>7990 (2341)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 (-3.9)</td>
<td>8650 (2534)</td>
<td>8210 (2406)</td>
<td>7770 (2277)</td>
<td>7340 (2151)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 (-6.7)</td>
<td>7930 (2323)</td>
<td>7520 (2203)</td>
<td>7110 (2083)</td>
<td>6700 (1963)</td>
</tr>
<tr>
<td>Compressor Model RST55C1E*</td>
<td></td>
<td>15 (-9.4)</td>
<td>7220 (2115)</td>
<td>6850 (2007)</td>
<td>6470 (1896)</td>
<td>6090 (1784)</td>
</tr>
<tr>
<td></td>
<td>10 (-12.2)</td>
<td>6550 (1919)</td>
<td>6210 (1820)</td>
<td>5860 (1717)</td>
<td>5510 (1614)</td>
<td>5170 (1515)</td>
</tr>
<tr>
<td></td>
<td>5 (-15.0)</td>
<td>5910 (1732)</td>
<td>5600 (1641)</td>
<td>5270 (1544)</td>
<td>4960 (1454)</td>
<td>4640 (1364)</td>
</tr>
<tr>
<td></td>
<td>0 (-17.8)</td>
<td>5300 (1553)</td>
<td>5020 (1471)</td>
<td>4730 (1386)</td>
<td>4430 (1296)</td>
<td>4150 (1216)</td>
</tr>
<tr>
<td></td>
<td>-5 (-20.6)</td>
<td>4510 (1386)</td>
<td>4260 (1248)</td>
<td>4010 (1175)</td>
<td>3760 (1102)</td>
<td>3510 (1028)</td>
</tr>
<tr>
<td></td>
<td>-10 (-23.3)</td>
<td>3900 (1172)</td>
<td>3780 (1108)</td>
<td>3560 (1043)</td>
<td>3300 (976)</td>
<td>3110 (911)</td>
</tr>
</tbody>
</table>

--- Outside Operating Range  † Max 40°F GRT  * Not suitable for use with R-507
### CAPACITY DATA - R404A R507

#### LOW TEMPERATURE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SATURATED SUCTION TEMPERATURE °F °C</th>
<th>CAPACITY BTU/H (WATTS) R404A R507</th>
<th>AMBIENT TEMPERATURE °F °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEH006L6</td>
<td>10 (-12.2) 18°F (-28.9) 39°F (14°C)</td>
<td>5580 (1635) 5380 (1577) 5160 (1512) 4940 (1448) 4690 (1374) 4460 (1307) 4200 (1231)</td>
<td>10 (308) 30°F (11°C) 38°F (10°C) 45°F (8°C) 52°F (4°C) 60°F (2°C) 68°F (0°C) 76°F (3°C)</td>
</tr>
<tr>
<td>KEH008L6</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>5960 (1744) 5460 (1603) 5180 (1558) 4900 (1486) 4690 (1376) 4500 (1312) 4080 (1346)</td>
<td>60°F (2°C) 68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>RFT22C1E</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>6570 (1925) 6310 (1849) 6040 (1770) 5760 (1688) 5500 (1612) 5170 (1515) 4900 (1436) 4660 (1366) 4400 (1290)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>RFT26C1E</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>7560 (2204) 7200 (2118) 6860 (2012) 6500 (1974) 6140 (1897) 5760 (1747) 5400 (1658) 5070 (1590) 4740 (1519)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CF04K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>11200 (3263) 10500 (3077) 9740 (2855) 9100 (2641) 8270 (2424) 7540 (2210) 6810 (1996) 6120 (1880) 5430 (1763)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CF05K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>13500 (3956) 12700 (3721) 11900 (3487) 11100 (3252) 10300 (3018) 9540 (2795) 8780 (2457) 8020 (2250) 7300 (2061)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CF06K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>15200 (4455) 14000 (4109) 13000 (3919) 11900 (3485) 10900 (3192) 10000 (2932) 9100 (2718) 8300 (2533) 7500 (2342)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CF07K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>18400 (5393) 17000 (5107) 15700 (4856) 14600 (4460) 13500 (4150) 12000 (3721) 10900 (3485) 9900 (2932) 9100 (2718)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CF08K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>23900 (6712) 22600 (6644) 21300 (6243) 20100 (5981) 18500 (5810) 17500 (5129) 16300 (4977) 15300 (4842) 14600 (4729)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CF09K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>27900 (8177) 26400 (7737) 24800 (7268) 23300 (6829) 21800 (6389) 20200 (5952) 18700 (5481) 17600 (5192) 16600 (4953)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CP0120K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>25300 (7415) 23900 (7005) 22500 (6594) 21100 (6184) 19700 (5774) 18300 (5363) 16900 (4953) 15600 (4602) 14500 (4279)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
<tr>
<td>CP0130K6E*</td>
<td>10 (-12.2) 18°F (-28.9) 30°F (13°C)</td>
<td>31000 (8909) 29500 (8655) 28100 (8244) 2680 (785) 2520 (739) 2370 (695) 2220 (651) 2070 (607) 1920 (564)</td>
<td>68°F (0°C) 76°F (3°C) 84°F (5°C) 92°F (7°C) 100°F (10°C) 108°F (12°C) 116°F (14°C)</td>
</tr>
</tbody>
</table>

**NOTE:** Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

---

*Outside Operating Range*  
† Max 40°F RGT  
*Not suitable for use with R-507*
### ELECTRICAL DATA
#### COPELAND MODELS

<table>
<thead>
<tr>
<th>MODEL KEH</th>
<th>COMPRESSOR MODEL NO.</th>
<th>POWER SUPPLY</th>
<th>COMPRESSOR RLA</th>
<th>CONDENSER FAN MOTOR UNIT</th>
<th>QTY</th>
<th>WATTS</th>
<th>FLA</th>
<th>MCA</th>
<th>MOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEHA006M8- * S2C</td>
<td>RST45C1E-CAV</td>
<td>208-230/1/60</td>
<td>4.6</td>
<td>26.5</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>6.3</td>
<td>15</td>
</tr>
<tr>
<td>KEHA008M8- * S2C</td>
<td>RST55C1E-CAV</td>
<td>208-230/1/60</td>
<td>8.0</td>
<td>43.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>10.5</td>
<td>15</td>
</tr>
<tr>
<td>KEHA009M8- * S2C</td>
<td>RST64C1E-CAV</td>
<td>208-230/1/60</td>
<td>6.9</td>
<td>46.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>9.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA010M8- * T3C</td>
<td>RST70C1E-TA5</td>
<td>208-230/3/60</td>
<td>9.3</td>
<td>46.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>10.9</td>
<td>15</td>
</tr>
<tr>
<td>KEHA011M8- * T3C</td>
<td>RST80C1E-TA5</td>
<td>208-230/3/60</td>
<td>5.1</td>
<td>36.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>6.9</td>
<td>15</td>
</tr>
<tr>
<td>KEHA013M8- * T3C</td>
<td>RST97C1E-TA5</td>
<td>208-230/3/60</td>
<td>9.0</td>
<td>51.0</td>
<td>1</td>
<td>240</td>
<td>1.1</td>
<td>12.4</td>
<td>20</td>
</tr>
<tr>
<td>KEHA006L6- * S2C</td>
<td>RST12C1E-CAV</td>
<td>208-230/1/60</td>
<td>4.7</td>
<td>29.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>6.4</td>
<td>15</td>
</tr>
<tr>
<td>KEHA008L6- * S2C</td>
<td>RFT22C1E-CAV</td>
<td>208-230/1/60</td>
<td>4.7</td>
<td>29.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>6.4</td>
<td>15</td>
</tr>
<tr>
<td>KEHA010L6- * S2C</td>
<td>CF04K6E-PFV</td>
<td>208-230/1/60</td>
<td>8.0</td>
<td>43.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>11.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA012L6- * T3C</td>
<td>CF06K6E-TF5</td>
<td>208-230/3/60</td>
<td>5.7</td>
<td>36.0</td>
<td>1</td>
<td>130</td>
<td>0.5</td>
<td>8.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA013L6- * T3C</td>
<td>CF12K6E-TF5</td>
<td>460/3/60</td>
<td>11.0</td>
<td>85.0</td>
<td>1</td>
<td>240</td>
<td>1.1</td>
<td>14.9</td>
<td>25</td>
</tr>
</tbody>
</table>

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

### ELECTRICAL DATA
#### Copeland Models with EC Motor(s)†

<table>
<thead>
<tr>
<th>MODEL KEH</th>
<th>COMPRESSOR MODEL NO.</th>
<th>POWER SUPPLY</th>
<th>COMPRESSOR RLA</th>
<th>ECM CONDENSER FAN UNIT</th>
<th>QTY</th>
<th>WATTS</th>
<th>FLA</th>
<th>MCA</th>
<th>MOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEHA006M8- * S2C</td>
<td>RST45C1E-CAV</td>
<td>208-230/1/60</td>
<td>4.6</td>
<td>26.5</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>6.8</td>
<td>15</td>
</tr>
<tr>
<td>KEHA008M8- * S2C</td>
<td>RST55C1E-CAV</td>
<td>208-230/1/60</td>
<td>6.1</td>
<td>33.7</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>8.6</td>
<td>15</td>
</tr>
<tr>
<td>KEHA009M8- * S2C</td>
<td>RST64C1E-CAV</td>
<td>208-230/1/60</td>
<td>8.1</td>
<td>43.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>11.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA010M8- * T3C</td>
<td>RST70C1E-TFC</td>
<td>208-230/3/60</td>
<td>9.3</td>
<td>46.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>9.6</td>
<td>15</td>
</tr>
<tr>
<td>KEHA011M8- * T3C</td>
<td>RST97C1E-TA5</td>
<td>208-230/3/60</td>
<td>5.1</td>
<td>36.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>7.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA013M8- * T3C</td>
<td>RST97C1E-TA5</td>
<td>208-230/3/60</td>
<td>9.0</td>
<td>51.0</td>
<td>1</td>
<td>175</td>
<td>2.0</td>
<td>13.3</td>
<td>20</td>
</tr>
<tr>
<td>KEHA006L6- * S2C</td>
<td>RFT22C1E-CAV</td>
<td>208-230/1/60</td>
<td>4.7</td>
<td>29.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>6.8</td>
<td>15</td>
</tr>
<tr>
<td>KEHA008L6- * S2C</td>
<td>RFT26C1E-CAV</td>
<td>208-230/1/60</td>
<td>8.0</td>
<td>43.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>11.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA010L6- * T3C</td>
<td>CF04K6E-PFV</td>
<td>208-230/1/60</td>
<td>8.0</td>
<td>43.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>11.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA012L6- * T3C</td>
<td>CF06K6E-TF5</td>
<td>208-230/3/60</td>
<td>5.7</td>
<td>36.0</td>
<td>1</td>
<td>100</td>
<td>1.0</td>
<td>8.1</td>
<td>15</td>
</tr>
<tr>
<td>KEHA013L6- * T3C</td>
<td>CF12K6E-TF5</td>
<td>460/3/60</td>
<td>11.0</td>
<td>85.0</td>
<td>1</td>
<td>240</td>
<td>1.1</td>
<td>14.9</td>
<td>25</td>
</tr>
</tbody>
</table>

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.
† Applies to units with variable speed EC motors or SmartSpeed (1/2 - 5 HP only). Contact factory for details.
DIMENSIONAL DATA  
(Small Chassis Models)  

DRAWING #1

INDOOR DIMENSIONS

OUTDOOR DIMENSIONS

NOTE: Discharge hood, legs and wind guard are optional components

REFER TO PAGE 12 FOR  
DIMENSIONAL DATA FOR SPECIFIC MODELS

NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.
NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

DIMENSIONAL DATA
(Large Chassis Models)

DRAWING #2

INDOOR DIMENSIONS

OUTDOOR DIMENSIONS

NOTE: Discharge hood, legs and wind guard are optional components

REFER TO PAGE 12 FOR DIMENSIONAL DATA FOR SPECIFIC MODELS
NOTE: Models in this document are not certified to DOE/NRCA energy efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

### KEHA COPELAND MODELS

#### OUTDOOR MODELS

<table>
<thead>
<tr>
<th>DRAWING # (see table below)</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>Inches</td>
<td>mm</td>
</tr>
<tr>
<td>With Hood, add:</td>
<td>Inches</td>
<td>mm</td>
</tr>
<tr>
<td>Wind Guard, add:</td>
<td>Inches</td>
<td>mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>KEHA</th>
<th>CHASSIS</th>
<th>DEPTH</th>
<th>OUTDOOR MODELS</th>
<th>INDOOR MODELS</th>
</tr>
</thead>
</table>

#### INDOOR MODELS

<table>
<thead>
<tr>
<th>DRAWING #</th>
<th>PAGE #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>11</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

#### KEHA COPELAND MODELS

#### UNIT CONNECTIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>KEHA</th>
<th>SUCTION (OD)</th>
<th>LIQUID (OD)</th>
<th>R404A RECIPIENT CAPACITY 90% FULL</th>
<th>APPROX. SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Inches</td>
<td>mm</td>
<td>Lbs.</td>
<td>Kgs</td>
</tr>
<tr>
<td>KEHA006M8</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA008M8</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA009M8</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA010M8</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA011M8</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA013M8</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>11.3</td>
</tr>
<tr>
<td>KEHA006L6</td>
<td>1/2</td>
<td>13</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA008L6</td>
<td>1/2</td>
<td>13</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA010L6</td>
<td>5/8</td>
<td>16</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA015L6</td>
<td>7/8</td>
<td>22</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA020L6</td>
<td>7/8</td>
<td>22</td>
<td>3/8</td>
<td>10</td>
<td>5.4</td>
</tr>
<tr>
<td>KEHA025L6</td>
<td>7/8</td>
<td>22</td>
<td>3/8</td>
<td>10</td>
<td>14.4</td>
</tr>
<tr>
<td>KEHA030L6</td>
<td>7/8</td>
<td>22</td>
<td>1/2</td>
<td>13</td>
<td>14.4</td>
</tr>
</tbody>
</table>

#### NOTE ON ALTERNATE REFRIGERANTS:

* Published receiver capacity is based on R404A on models using "6" as refrigerant code.

For alternate refrigerants, multiply the R404A value by the appropriate value below:

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>R407A</td>
<td>1.10</td>
</tr>
<tr>
<td>R406C</td>
<td>1.10</td>
</tr>
<tr>
<td>R443A</td>
<td>1.05</td>
</tr>
<tr>
<td>R507</td>
<td>1.00</td>
</tr>
<tr>
<td>R22</td>
<td>1.15</td>
</tr>
</tbody>
</table>

* For R449A, use R448A data.
NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

TYPICAL SYSTEM WIRING DIAGRAM

- 208/230V-1-60 or 200/220V-1-50 Hz
- INHERENT LINE BREAK MOTOR PROTECTION
- STANDARD CTRL CIRCUIT

CONDENSING UNIT WIRING DIAGRAM

REFER TO CONDENSING UNIT NAMEPLATE FOR ELECTRICAL REQUIREMENTS

COMPRESSOR

DISCONNECT SWITCH (NOTE C3)
FUSED (NOTE C3)

drain breaker or fuses (NOTE C3)

CONDENSER CIRCUIT BREAKER & AUXILIARY SWITCHES

COMPRESSOR CONTACTOR & AUXILIARY SWITCHES

NOTES:
C1. USE COPPER CONDUCTORS ONLY
C2. USE 70C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDENSER WIRING

FACTORY WIRING

OPTIONAL WIRING

WIRING BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

CONDENSING UNIT CONTROL PANEL

REFER TO COND UNIT WIRING SECTION ABOVE

NOTES:
E1. USE COPPER CONDUCTORS ONLY
E2. USE 70C WIRE (OR HIGHER)
E3. OPTIONAL COMPONENT MAY BE FACTORY INSTALLED IN COND. UNIT, EVAPORATOR, OR SUPPLIED BY OTHERS
E4. OVERCURRENT PROTECTION FOR EVAPORATOR MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE.
E5. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED HIGHER THAN OPERATING VOLTAGE

TERMINALS

- COMPONENT TERMINAL - MARKED
- COMPONENT TERMINAL - UNMARKED (IDENTIFIABLE BY LOCATION)
- COMPONENT TERMINAL - UNMARKED (UNIDENTIFIABLE)
- TERMINAL BLOCK TERMINAL
- WIRE SPlice

CONDUCTORS WIRING

FACTORY WIRING

OPTIONAL WIRING (COST OPTIONAL COMPONENTS MAY BE FACTORY WIRED)

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

CUSTOMER

COND UNIT MODEL:

EVAPORATOR MODEL:

CUSTOMER ORDER:

REVISIONS

DRAWING NUMBER

17/12/19

KA101

17/12/19

S2A1A

60Hz

K40-KEHC-PDS-3

- 13 -
NOTE: Models in this document are not certified to DOE/NRCan efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.
NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

TYPICAL SYSTEM WIRING DIAGRAM
460/3/60, 575/3/60

CONDENSING UNIT WIRING DIAGRAM

- 460V 3-60, 575V 3-60 or 380V/400V 3-50 Hz
- CENTRALIZED LINE IRREVERSIBLE MOTOR PROTECTION
- STANDARD CONTROL CIRCUIT WITH PHASE-VOLT MONITOR

KEH 60Hz

TYPICAL EVAPORATOR WIRING: FOR TWO MED PROFILES ELECT DEFROST EVAPORATORS - SINGLE POINT

FOR USE WITH: THREE PHASE CONDENSING UNITS WITH DEFROST TIME CLOCK, & EVAP FAN AND DEFR. HTR, CONTACTORS.

NOTES
C1. USE COPPER CONDUCTORS ONLY
C2. USE 75°C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDENSER/WIRING
- FACTORY WIRING
- OPTIONAL WIRING
- WIRING BY OTHERS

FACTORY WIRING

OPTIONAL WIRING

WIRING BY OTHERS

NOTES

1. USE COPPER CONDUCTORS ONLY
2. USE 75°C WIRE (OR HIGHER)
3. OPTIONAL COMPONENT, MAY BE FACTORY INSTALLED IN COND. UNIT, EVAPORATOR, OR SUPPLIED BY OTHERS
4. HEATER LOADS ARE NOT CONCURRENT WITH REFRIGERATION LOAD
5. OVERCURRENT PROTECTION FOR EVAPORATOR MUST EXCEED MAXIMUM VALUE SHOWN ON (EVAPORATOR NAMEPLATE)
6. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE TERMINALS

- COMPONENT TERMINAL — MARKED
- COMPONENT TERMINAL — DYNAMICS
- COMPONENT TERMINAL — UNMARKED (UNIDENTIFIABLE)
- TERMINAL BLOCK TERMINAL

CONDUCTORS/WIRING
- FACTORY WIRING
- WIRING BY OTHERS
- OPTIONAL COMPONENT WIRING (SOME OPTIONAL COMPONENTS MAY BE FACTORY WIRING)

CUSTOMER
- COND. UNIT MODEL
- EVAPORATOR MODEL
- CUSTOMER ORDER #

17/12/19
TYPICAL SYSTEM WIRING DIAGRAM

208-230/1/60 Unit with SMARTSPEED with 230V Air Defrost Evaporator

CONDENSING UNIT WIRING DIAGRAM

NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

TYPICAL EVAPORATOR WIRING: FOR SINGLE AIR DEFROST EVAPORATOR- SINGLE POINT


NOTES:

1. USE COPPER CONDUCTORS ONLY
2. USE 75°C WIRE (OR HIGHER)
3. MAY BE FACTORY INSTALLED IN COND. UNIT, EVAPORATOR, OR SUPPLIED BY OTHERS
4. OVERCURRENT PROTECTION FOR EVAPORATOR MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE
5. ALL FUSES TO BE CLASS CC OF 2.2 AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONNECTIONS/WIRING

- FACTORY WIRING
- WIRING BY OTHERS
- OPTIONAL COMPONENT WIRING

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

CUSTOMER

- EVAPORATOR MODEL
- CUSTOMER ORDER #

REVISED DATE

- 1/18/12
- 17/12/19

MANUFACTURED IN

- A

K40-KEHC-PDS-3-16

KEH

EC MOTORS

60Hz

K40-KEHC-PDS-3

NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.
NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq. ft.
NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq. ft.
<table>
<thead>
<tr>
<th>System</th>
<th>Refrigerant</th>
<th>Electrical Supply</th>
<th>NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>Date of Start-Up</td>
<td>Service Contractor</td>
<td></td>
</tr>
<tr>
<td>Serial Number</td>
<td>Phone</td>
<td>E-Mail</td>
<td></td>
</tr>
</tbody>
</table>

60Hz
NOTE: Models in this document are not certified to DOE/NRCAN efficiency standards and should not be used for coolers or freezers less than 3000 sq.ft.

PRODUCT SUPPORT RESOURCES

**PRODUCT SUPPORT**

- **web:** [www.k-rp.com/keh](http://www.k-rp.com/keh)
- **email:** smcu@k-rp.com
- **call:** 1-844-893-3222 x521

**TROUBLESHOOTING**

- **email:** troubleshooting@k-rp.com
- **call:** 1-844-893-3222 x529

**SERVICE PARTS**

- **web:** [www.k-rp.com/parts](http://www.k-rp.com/parts)
- **email:** parts@k-rp.com
- **call:** 1-844-893-3222 x521

**WARRANTY**

- **web:** [www.k-rp.com/warranty](http://www.k-rp.com/warranty)
- **email:** warranty@k-rp.com
- **call:** 1-844-893-3222 x501

**ORDERS**

- **email:** orders@k-rp.com
- **call:** 1-844-893-3222 x501

**SHIPPING**

- **email:** shipping@k-rp.com
- **call:** 1-844-893-3222 x503

KeepRite Refrigeration
Brantford, ON • Longview, TX
1-800-463-9517  info@k-rp.com  www.k-rp.com

Due to the manufacturer’s policy of continuous product improvement, we reserve the right to make changes without notice.