Refrigeration Compressors
**Salient Features**

**KCX Series Compressor Nomenclature**

**MODEL PLATFORM**
- KCE
- KCJ
- KCH
- KCN

**APPLICATION**
- LL B P
- CC B P
- H HBP/AC

**MODEL SERIES VARIANT**
- A BASIC MODEL

**MOTOR CIRCUIT**
- 1 RSIR
- 2 CSIR
- 3 CSCR
- 4 PSC
- 5 3 Phase
- 6 RSIR With PTC
- 7 CSIR With PTC
- 8 CSCR With PTC
- 9 PSC With PTC

**BOM VARIANT**
- 0 Standard Model
- 1 Variant

**TOTAL NUMBER OF DIGITS IN THE COOLING CAPACITY AT 60 Hz (IN BTU/HOUR)**
- FIRST TWO DIGITS IN THE COOLING CAPACITY AT 60 Hz (IN BTU/HOUR)

**REFRIGERANT**
- A R-12
- E R-22
- G R-134a
- L R-404A

**VOLTAGE RANGE**
- A 230V (150-260), 50Hz, 1ph
- B 230V (180-260), 50Hz, 1ph
- C 230V (198-264), 50Hz, 1ph
- D 400V (360-460), 50Hz, 3ph
- E 400V (342-460), 50Hz, 3ph
- F 220V (198-264), 50Hz, 1ph

*It doesn't indicate that compressor is suitable for 60 Hz power supply. For more details please refer compressor specifications.*
Applications

- Deep Freezers
- Refrigerators
- Ice Cube machines
- Walk-in Freezers
- Laboratory Appliances
  and many more

- Bottle Coolers
- Visi Coolers
- Display Cabinets
- Pastry Cabinets
- Milk Chillers and
  many more

- Water Coolers
- Bubble Top Water-coolers
- Oil Coolers / Panel Coolers
- Water Chillers
- Refrigerated Air Dryers
  and many more

Model Selection Guide

Note: As per Government of India notification w.e.f. 01-01-2003, R12 should not be used for manufacturing new appliances.

<table>
<thead>
<tr>
<th>Deep freezer (Hard Top)</th>
<th>Softy Ice Cream (Batch Freezer)</th>
<th>Refrigerator</th>
<th>Bubble Top Water Cooler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal (Ltr)</td>
<td>Maximum (Ltr)*</td>
<td>Churner capacity (Ltr)</td>
<td>Single Door (Ltr)</td>
</tr>
<tr>
<td>KCN 372 LAG</td>
<td>170-250</td>
<td>300</td>
<td>-----</td>
</tr>
<tr>
<td>KCN 396 LAG</td>
<td>260-300</td>
<td>400</td>
<td>-----</td>
</tr>
<tr>
<td>KCN 411 LAG</td>
<td>350-400</td>
<td>450</td>
<td>-----</td>
</tr>
<tr>
<td>KCJ 411 LAG</td>
<td>280-340</td>
<td>400</td>
<td>-----</td>
</tr>
<tr>
<td>KCJ 412 LAG</td>
<td>340-400</td>
<td>480</td>
<td>-----</td>
</tr>
<tr>
<td>KCN 415 LAG</td>
<td>425-480</td>
<td>500</td>
<td>3</td>
</tr>
<tr>
<td>KCJ 423 LAG</td>
<td>600-800</td>
<td>900</td>
<td>-----</td>
</tr>
<tr>
<td>KCH 431 LAG</td>
<td>800-1100</td>
<td>1200</td>
<td>5</td>
</tr>
<tr>
<td>KCJ 430 LAL</td>
<td>800-1100</td>
<td>1200</td>
<td>5</td>
</tr>
<tr>
<td>KCJ 450 LAL</td>
<td>1100-1600</td>
<td>1850</td>
<td>10</td>
</tr>
</tbody>
</table>

* The maximum size mentioned is possible with very effective insulation, high conductivity inner cabinet material, good evaporator bonding and a very well balanced refrigeration system.

<table>
<thead>
<tr>
<th>Water Cooler (LPH)</th>
<th>Bottle Cooler (Ltr)</th>
<th>Visicooler (Case)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KCE 419 HAG</td>
<td>20</td>
<td>100-120</td>
</tr>
<tr>
<td>KCE 425 HAG</td>
<td>-----</td>
<td>150-200</td>
</tr>
<tr>
<td>KCE 432 CAG</td>
<td>-----</td>
<td>150-200</td>
</tr>
<tr>
<td>KCE 432 HAG</td>
<td>-----</td>
<td>220-250</td>
</tr>
<tr>
<td>KCE 416 CAG</td>
<td>-----</td>
<td>220-250</td>
</tr>
<tr>
<td>KCE 444 HAG</td>
<td>40</td>
<td>260-350</td>
</tr>
<tr>
<td>KCE 443 HAE</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>KCJ 444 HAG</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>KCJ 467 HAG</td>
<td>60</td>
<td>350-500</td>
</tr>
<tr>
<td>KCE 461 HAE</td>
<td>60</td>
<td>-----</td>
</tr>
<tr>
<td>KCJ 498 HAG</td>
<td>100</td>
<td>-----</td>
</tr>
<tr>
<td>KCJ 511 HAE</td>
<td>100</td>
<td>600-800</td>
</tr>
<tr>
<td>KCJ 513 HAE</td>
<td>150</td>
<td>-----</td>
</tr>
</tbody>
</table>
### Compressor Models

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Cooling Capacity (Btu/Hr)</th>
<th>Input Power (watts)</th>
<th>Input Current (Amps.)</th>
<th>Displacement (cc/rev)</th>
<th>Cooling Type</th>
<th>Voltage Range</th>
<th>Approx Weight (Kg.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R134a, LBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN372LAG</td>
<td>392</td>
<td>600</td>
<td>1490 –</td>
<td>159</td>
<td>1.34</td>
<td>7.31</td>
<td>Oil/Fan 260</td>
</tr>
<tr>
<td>KCN396LAG</td>
<td>533</td>
<td>800</td>
<td>1690 –</td>
<td>205</td>
<td>1.85</td>
<td>9.0</td>
<td>Oil/Fan 260</td>
</tr>
<tr>
<td>KCN411LAG</td>
<td>600</td>
<td>960</td>
<td>2375 –</td>
<td>250</td>
<td>2.1</td>
<td>11.1</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCN415LAG</td>
<td>710</td>
<td>1260</td>
<td>3170 –</td>
<td>325</td>
<td>2.0</td>
<td>15.33</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KJC411LAG</td>
<td>--</td>
<td>1025</td>
<td>3290 –</td>
<td>280</td>
<td>2.2</td>
<td>16.35</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KJC412LAG</td>
<td>--</td>
<td>1000</td>
<td>3260 –</td>
<td>310</td>
<td>2.75</td>
<td>18.27</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KJC423LAG</td>
<td>--</td>
<td>1925</td>
<td>5820 –</td>
<td>485</td>
<td>3.0</td>
<td>32.61</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCH431LAG</td>
<td>--</td>
<td>2650</td>
<td>10640 –</td>
<td>810</td>
<td>5.0</td>
<td>56.09</td>
<td>Fan 400</td>
</tr>
<tr>
<td><strong>R404A, LBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ430LAL</td>
<td>1572</td>
<td>2425</td>
<td>5180 –</td>
<td>580</td>
<td>3.2</td>
<td>16.35</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCJ450LAL</td>
<td>2490</td>
<td>4200</td>
<td>9480 –</td>
<td>975</td>
<td>5.0</td>
<td>32.64</td>
<td>Fan 350</td>
</tr>
<tr>
<td><strong>R12 LBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE336LAA</td>
<td>--</td>
<td>300</td>
<td>660 –</td>
<td>120</td>
<td>1.25</td>
<td>4.49</td>
<td>Oil/Fan 260</td>
</tr>
<tr>
<td>KCE346LAA</td>
<td>--</td>
<td>375</td>
<td>816 –</td>
<td>140</td>
<td>1.1</td>
<td>5.48</td>
<td>Oil/Fan 260</td>
</tr>
<tr>
<td>KCE360LAA</td>
<td>--</td>
<td>500</td>
<td>1125 –</td>
<td>210</td>
<td>1.8</td>
<td>7.58</td>
<td>Oil/Fan 260</td>
</tr>
<tr>
<td>KCE399LAA</td>
<td>--</td>
<td>825</td>
<td>2020 –</td>
<td>320</td>
<td>1.5</td>
<td>12.04</td>
<td>Oil/Fan260</td>
</tr>
<tr>
<td>KCJ410LAA</td>
<td>--</td>
<td>875</td>
<td>1925 –</td>
<td>300</td>
<td>2.3</td>
<td>12.58</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCJ415LAA</td>
<td>--</td>
<td>1330</td>
<td>2890 –</td>
<td>390</td>
<td>2.9</td>
<td>18.27</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCJ427LAA</td>
<td>--</td>
<td>2260</td>
<td>6100 –</td>
<td>530</td>
<td>3.2</td>
<td>32.64</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCH450LAA</td>
<td>--</td>
<td>4200</td>
<td>11200 –</td>
<td>1140</td>
<td>6.3</td>
<td>56.09</td>
<td>Fan 400</td>
</tr>
<tr>
<td><strong>R134a, CBP / HBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE419HAG</td>
<td>--</td>
<td>860</td>
<td>1585 –</td>
<td>245</td>
<td>1.6</td>
<td>5.79</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCE425HAG</td>
<td>--</td>
<td>1075</td>
<td>2145 –</td>
<td>360</td>
<td>2.3</td>
<td>7.58</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCE432HAG</td>
<td>--</td>
<td>1330</td>
<td>2690 –</td>
<td>375</td>
<td>2.8</td>
<td>9.42</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>--</td>
<td>1880</td>
<td>3675 –</td>
<td>475</td>
<td>2.2</td>
<td>12.05</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCJ444HAG</td>
<td>--</td>
<td>1720</td>
<td>3700 –</td>
<td>450</td>
<td>2.8</td>
<td>12.58</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCJ467HAG</td>
<td>--</td>
<td>2830</td>
<td>5600 –</td>
<td>675</td>
<td>3.85</td>
<td>18.27</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCJ498HAG</td>
<td>--</td>
<td>4100</td>
<td>8200 –</td>
<td>975</td>
<td>5.9</td>
<td>25.91</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCN463HAG</td>
<td>--</td>
<td>3130</td>
<td>5250 –</td>
<td>615</td>
<td>2.7</td>
<td>15.33</td>
<td>Fan 350</td>
</tr>
<tr>
<td>KCE432HAG</td>
<td>1730</td>
<td>3280</td>
<td>470 –</td>
<td>2.8</td>
<td>9.42</td>
<td>Fan 350</td>
<td>208-253</td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>2215</td>
<td>4275</td>
<td>550 –</td>
<td>2.4</td>
<td>12.05</td>
<td>Fan 350</td>
<td>208-253</td>
</tr>
<tr>
<td>KCN463HAG</td>
<td>3443</td>
<td>6300</td>
<td>810 –</td>
<td>3.65</td>
<td>15.33</td>
<td>Fan 350</td>
<td>208-253</td>
</tr>
<tr>
<td>KCJ467HAG</td>
<td>3400</td>
<td>6700</td>
<td>820 –</td>
<td>4.2</td>
<td>18.27</td>
<td>Fan 350</td>
<td>208-253</td>
</tr>
</tbody>
</table>

**60Hz Models**

Note: All our R12 compressor models are for replacement market only.
*These are optional accessories to be used for CSCR circuit.
<table>
<thead>
<tr>
<th>Specifications</th>
<th>Oil Charge (cc)</th>
<th>LRA (Amps.)</th>
<th>Wiring Drawing</th>
<th>Motor Circuit</th>
<th>Start Capacitor (MFD)</th>
<th>Run Capacitor (MFD)</th>
<th>Start Relay Type</th>
<th>Current Protector</th>
<th>Overload Protector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>340</td>
<td>10</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>340</td>
<td>10</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>380</td>
<td>10</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>380</td>
<td>14</td>
<td>4</td>
<td>CSCR</td>
<td>80 / 100</td>
<td>10</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>22</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>24</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>35</td>
<td>4</td>
<td>CSCR</td>
<td>150 / 200</td>
<td>10</td>
<td>LT85003</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>1330</td>
<td>42</td>
<td>4</td>
<td>CSCR</td>
<td>150 / 200</td>
<td>25</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>35</td>
<td>4</td>
<td>CSCR</td>
<td>150 / 200</td>
<td>10</td>
<td>LT85003</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>50</td>
<td>4</td>
<td>CSCR</td>
<td>150 / 200</td>
<td>25</td>
<td>LT85004</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>9</td>
<td>3</td>
<td>RSIR</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>10</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>13</td>
<td>4</td>
<td>CSCR</td>
<td>40 / 60</td>
<td>10</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>16</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>24</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>30</td>
<td>4</td>
<td>CSCR</td>
<td>150 / 200</td>
<td>10</td>
<td>LT85003</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>1330</td>
<td>42</td>
<td>4</td>
<td>CSCR</td>
<td>150 / 200</td>
<td>25</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>1330</td>
<td>17</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>Contactor : 16 A, 220 V Coil, Relay 2.5 - 4 A Setting : 3 A</td>
<td>INTERNAL</td>
<td>INTERNAL</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>11</td>
<td>3</td>
<td>RSIR</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>14</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>12.5</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>13</td>
<td>4 / 8</td>
<td>CSCR</td>
<td>40 / 60</td>
<td>10</td>
<td>LT85002</td>
<td>KCP 14PO</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>17</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>23</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>32</td>
<td>5</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>AC85001M</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>380</td>
<td>14</td>
<td>4</td>
<td>CSCR</td>
<td>80 / 100</td>
<td>15</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>12.5</td>
<td>7</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>------</td>
<td>------</td>
<td>KARP4741/ MTRP4741</td>
<td>KAT0072 / H3 or T0072 / H3</td>
</tr>
<tr>
<td></td>
<td>510</td>
<td>13</td>
<td>4 / 8</td>
<td>CSCR</td>
<td>40 / 60</td>
<td>10</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>380</td>
<td>14</td>
<td>4 / 8</td>
<td>CSCR</td>
<td>80 / 100</td>
<td>15</td>
<td>LT85002</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>890</td>
<td>23</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>------</td>
<td>------</td>
<td>KARP 5641</td>
<td>------</td>
</tr>
<tr>
<td>Compressor Model</td>
<td>Cooling Capacity (Btu/Hr)</td>
<td>Input Power (watts)</td>
<td>Input Current (Amps.)</td>
<td>Displacement (cc/rev)</td>
<td>Cooling Type</td>
<td>Voltage Range</td>
<td>Approx Weight (Kg.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------</td>
<td>--------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>-------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>R134a, CBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN413CAG</td>
<td>--</td>
<td>1080</td>
<td>2018</td>
<td>180</td>
<td>0.86</td>
<td>6.15</td>
<td>Fan 350</td>
<td>180-260</td>
<td>9.7</td>
</tr>
<tr>
<td>KCN416CAG</td>
<td>--</td>
<td>1340</td>
<td>2430</td>
<td>220</td>
<td>1.0</td>
<td>7.31</td>
<td>Fan 350</td>
<td>180-260</td>
<td>9.7</td>
</tr>
<tr>
<td><strong>R404A, CBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ461CAL</td>
<td>--</td>
<td>5100</td>
<td>9670</td>
<td>925</td>
<td>4.5</td>
<td>18.27</td>
<td>Fan 350</td>
<td>180-260</td>
<td>21.5</td>
</tr>
<tr>
<td>KCJ484CAL</td>
<td>--</td>
<td>7000</td>
<td>13248</td>
<td>1250</td>
<td>6.2</td>
<td>25.91</td>
<td>Fan 350</td>
<td>180-260</td>
<td>22.5</td>
</tr>
<tr>
<td><strong>R22, CBP/HBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAE</td>
<td>--</td>
<td>1620</td>
<td>3600</td>
<td>475</td>
<td>2.3</td>
<td>8.0</td>
<td>Fan 350</td>
<td>180-260</td>
<td>11.8</td>
</tr>
<tr>
<td>KCE461HAE</td>
<td>--</td>
<td>2590</td>
<td>5100</td>
<td>675</td>
<td>3.1</td>
<td>11.5</td>
<td>Fan 350</td>
<td>180-260</td>
<td>13.4</td>
</tr>
<tr>
<td>KCJ511HAE</td>
<td>--</td>
<td>4210</td>
<td>9150</td>
<td>1020</td>
<td>4.7</td>
<td>18.27</td>
<td>Fan 350</td>
<td>180-260</td>
<td>21.5</td>
</tr>
<tr>
<td>KCJ513HAE</td>
<td>--</td>
<td>6366</td>
<td>12800</td>
<td>1440</td>
<td>6.8</td>
<td>25.91</td>
<td>Fan 350</td>
<td>180-260</td>
<td>22.5</td>
</tr>
<tr>
<td><strong>R12, HBP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE423HAA</td>
<td>--</td>
<td>1075</td>
<td>1925</td>
<td>360</td>
<td>2.4</td>
<td>7.58</td>
<td>Fan 350</td>
<td>180-260</td>
<td>10.8</td>
</tr>
<tr>
<td>KCE431HAA</td>
<td>--</td>
<td>1330</td>
<td>2600</td>
<td>410</td>
<td>2.5</td>
<td>9.42</td>
<td>Fan 350</td>
<td>180-260</td>
<td>11.8</td>
</tr>
<tr>
<td>KCE443HAA</td>
<td>--</td>
<td>1975</td>
<td>3610</td>
<td>450</td>
<td>2.3</td>
<td>12.05</td>
<td>Fan 350</td>
<td>180-260</td>
<td>11.8</td>
</tr>
<tr>
<td>KCE443HAA</td>
<td>--</td>
<td>2100</td>
<td>3650</td>
<td>450</td>
<td>2.8</td>
<td>12.58</td>
<td>Fan 350</td>
<td>198-264</td>
<td>20.0</td>
</tr>
<tr>
<td>KCJ461HAA</td>
<td>--</td>
<td>2900</td>
<td>5100</td>
<td>675</td>
<td>4.0</td>
<td>18.27</td>
<td>Fan 350</td>
<td>180-260</td>
<td>21.0</td>
</tr>
<tr>
<td>KCJ494HAA</td>
<td>--</td>
<td>4200</td>
<td>7900</td>
<td>1000</td>
<td>5.9</td>
<td>25.91</td>
<td>Fan 350</td>
<td>198-264</td>
<td>21.5</td>
</tr>
</tbody>
</table>

Note: All our R12 compressor models are for replacement market only.

*These are optional accessories to be used for CSCR circuit.

### Rating Conditions

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>Evaporating Temperature</th>
<th>Condensing Temperature</th>
<th>Sub Cooled Liquid Temp</th>
<th>Expansion Device</th>
<th>Suction Gas Temperature</th>
<th>Suction Pressure</th>
<th>Discharge Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0°F 0°C</td>
<td>0°F 0°C</td>
<td>0°F 0°C</td>
<td>0°F 0°C</td>
<td>0°F 0°C</td>
<td>HFC-404a</td>
<td>HFC-404a</td>
</tr>
<tr>
<td><strong>High Back Pressure</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95 °F 35°C</td>
<td>45°F 7.2°C</td>
<td>130°F 54.4°F</td>
<td>115°F 46.1°F</td>
<td>95°F 35°C</td>
<td>93.7 psig 6.5 kg/cm²</td>
<td>354 psig 24.89 kg/cm²</td>
<td></td>
</tr>
<tr>
<td>95 °F 35°C</td>
<td>20°F -6.7°F</td>
<td>130°F 54.4°F</td>
<td>115°F 46.1°F</td>
<td>95°F 35°C</td>
<td>55.6 psig 3.9 kg/cm²</td>
<td>354 psig 24.89 kg/cm²</td>
<td></td>
</tr>
<tr>
<td><strong>Low Back Pressure</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90 °F 32°C</td>
<td>-10°F -23.3°F</td>
<td>130°F 54.4°F</td>
<td>90°F 32°F</td>
<td>90°F 32°F</td>
<td>24.6 psig 1.7 kg/cm²</td>
<td>354 psig 24.89 kg/cm²</td>
<td></td>
</tr>
</tbody>
</table>
### Specifications

<table>
<thead>
<tr>
<th>Oil Charge (cc)</th>
<th>LRA (Amps.)</th>
<th>Wiring Drawing</th>
<th>Motor Circuit</th>
<th>Start Capacitor (MFD)</th>
<th>Run Capacitor (MFD)</th>
<th>Start Relay Type</th>
<th>Type Current</th>
<th>Overload Protector</th>
</tr>
</thead>
<tbody>
<tr>
<td>340</td>
<td>10</td>
<td>8</td>
<td>CSCR</td>
<td>40 / 60</td>
<td>6</td>
<td>PTC-KCP14P0</td>
<td>KAT0411 / H3</td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>10</td>
<td>8</td>
<td>CSCR</td>
<td>40 / 60</td>
<td>6</td>
<td>PTC-KCP14P0</td>
<td>KAT0413 / H3</td>
<td></td>
</tr>
<tr>
<td>890</td>
<td>25</td>
<td>4</td>
<td>CSCR</td>
<td>80 / 100</td>
<td>25</td>
<td>LT85002</td>
<td>-----</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>890</td>
<td>37</td>
<td>4</td>
<td>CSCR</td>
<td>80 / 100</td>
<td>25</td>
<td>AC85001M</td>
<td>-----</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>510</td>
<td>13</td>
<td>4</td>
<td>PSC/CSCR*</td>
<td>40 / 60*</td>
<td>10</td>
<td>LT 85002*</td>
<td>-----</td>
<td>KAT 0072 / K3</td>
</tr>
<tr>
<td>590</td>
<td>17</td>
<td>1/4`</td>
<td>PSC/CSCR*</td>
<td>60 / 80*</td>
<td>15</td>
<td>LT 85003*</td>
<td>-----</td>
<td>MRT 36ALX - 112</td>
</tr>
<tr>
<td>905</td>
<td>25</td>
<td>1/4</td>
<td>PSC / CSCR*</td>
<td>80 / 100*</td>
<td>25</td>
<td>LT85002*</td>
<td>-----</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>890</td>
<td>30</td>
<td>1/4</td>
<td>PSC / CSCR*</td>
<td>80 / 100*</td>
<td>36</td>
<td>AC85001M*</td>
<td>-----</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>510</td>
<td>14</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>-----</td>
<td>-----</td>
<td>KARP4141</td>
<td>TAE 21 / H3</td>
</tr>
<tr>
<td>510</td>
<td>1</td>
<td>2.5</td>
<td>2</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>LT 85002</td>
<td>-----</td>
<td>KARP4741</td>
</tr>
<tr>
<td>510</td>
<td>13</td>
<td>4</td>
<td>CSCR</td>
<td>40 / 60</td>
<td>10</td>
<td>LT 85002</td>
<td>-----</td>
<td>KAT 0072 / K3</td>
</tr>
<tr>
<td>890</td>
<td>16</td>
<td>7</td>
<td>CSIR</td>
<td>40 / 60</td>
<td>-----</td>
<td>-----</td>
<td>KARP 5341</td>
<td>MRA 6985 -112</td>
</tr>
<tr>
<td>890</td>
<td>24</td>
<td>7</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>-----</td>
<td>-----</td>
<td>KARP 5641</td>
<td>-----</td>
</tr>
<tr>
<td>890</td>
<td>32</td>
<td>5</td>
<td>CSIR</td>
<td>80 / 100</td>
<td>-----</td>
<td>AC85001M</td>
<td>-----</td>
<td>T0163/B2 or KAT 0159/B2</td>
</tr>
</tbody>
</table>

### Notes

1. Electrical rating is 230 V, 50 Hz for single phase models & 400V, 50 Hz for three phase models.
2. Operating voltage range signifies the range of voltage for which the compressor can start and run up to 43°C ambient.
3. Cooling capacity & power consumption are nominal values at specified rating conditions and subject to ±5% variation.
4. Direct air flow on glass terminal cover should be avoided.
5. Permitted evaporating temperature range
   - HBP - R134a: -17.8°C to +12.8°C
   - R22: -6.7°C to +12.8°C
   - R12: -6.7°C to +12.8°C
   - LBP: -28.8°C to -6.7°C
   - CBP: -28.8°C to -6.7°C
5. Permitted evaporating temperature range
   - HBP - R404A-KCJ: -17.8°C to +10°C
   - LBP: -17.8°C to +12.8°C
   - CBP: -17.8°C to +10°C
6. Compressors with CSIR, CSCR circuit & THREE PHASE models may be used with thermostatic expansion valve.
7. Compressors with RSIR Circuit must use capillary tube only.
8. All compressors use two pole motors.
9. Compressors are rated as per IS-10617 Part I & Part III-1983.
10. All run capacitor should have a rating of 440 VAC and start capacitor 275 VAC surge, unless otherwise specified by Emerson Climate Technologies (India) Limited.
### Dimensional Drawings

#### KCE

<table>
<thead>
<tr>
<th>Model</th>
<th>Suction ID</th>
<th>Discharge ID</th>
<th>L</th>
<th>H</th>
<th>Oil Cooler Tube</th>
<th>Capacitor Mounting Bracket Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>mm</td>
<td>inch</td>
</tr>
<tr>
<td>KCE419HAG</td>
<td>1/4</td>
<td>6.5</td>
<td>1/4</td>
<td>6.5</td>
<td>253</td>
<td>196</td>
</tr>
<tr>
<td>KCE425HAG</td>
<td>1/4</td>
<td>6.5</td>
<td>1/4</td>
<td>6.5</td>
<td>257</td>
<td>196</td>
</tr>
<tr>
<td>KCE432HAG</td>
<td>5/16</td>
<td>8.0</td>
<td>1/4</td>
<td>6.5</td>
<td>257</td>
<td>212</td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>5/16</td>
<td>8.0</td>
<td>1/4</td>
<td>6.5</td>
<td>253</td>
<td>212</td>
</tr>
<tr>
<td>KCE439HAA</td>
<td>5/8</td>
<td>6.5</td>
<td>1/4</td>
<td>6.5</td>
<td>5/16</td>
<td>212</td>
</tr>
<tr>
<td>KCE431HAA</td>
<td>5/8</td>
<td>6.5</td>
<td>1/4</td>
<td>6.5</td>
<td>5/16</td>
<td>212</td>
</tr>
<tr>
<td>KCE443HAA</td>
<td>5/8</td>
<td>6.5</td>
<td>1/4</td>
<td>6.5</td>
<td>5/16</td>
<td>212</td>
</tr>
</tbody>
</table>

**R134a High Back Pressure**

**R12 Low Back Pressure**

---

**KCH431LAG / KCH450LAA**

**SQUARE MOUNT**

**KCE461HAe**

**KCJ430LAL**

**TRIANGULAR MOUNT**

**KCE443HAe**

**KCJ450LAL**
## Standard Bill of Material

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BOM India</th>
<th>BOM Export</th>
<th>FOUR LEG 7.5&quot; X 7.5&quot; (190mm X 190mm)</th>
<th>FOUR LEG 4.8&quot; X 8&quot; (122mm X 202mm)</th>
<th>FOUR LEG 4&quot; X 6.5&quot; (102mm X 165mm)</th>
<th>FOUR LEG 2.75&quot; X 6.69&quot; (70 X 170mm)</th>
<th>THREE LEG 8.44&quot; X 9.75&quot; (214mm X 248mm)</th>
<th>THREE LEG 6.12&quot; X 8&quot; (155mm X 203mm)</th>
<th>ELECTRICAL CIRCUIT</th>
<th>SERVICE VALVE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>[R134a LBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN372LAG</td>
<td>B130</td>
<td>B131</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN372LAG</td>
<td>B230</td>
<td>B231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN396LAG</td>
<td>B230</td>
<td>B231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN411LAG</td>
<td>B230</td>
<td>B230</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN415LAG</td>
<td>B330</td>
<td>B331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ411LAG</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ412LAG</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ423LAG</td>
<td>C320</td>
<td>C321</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCH431LAG</td>
<td>C310</td>
<td>C311</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCH431LAG</td>
<td>D510</td>
<td>D511</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R12 LBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE336LAA</td>
<td>A130</td>
<td>A131</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE345LAA</td>
<td>B130</td>
<td>B131</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE360LAA</td>
<td>B230</td>
<td>B231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE399LAA</td>
<td>B330</td>
<td>B331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ410LAA</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ415LAA</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCH427LAA</td>
<td>B320</td>
<td>B321</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCH450LAA</td>
<td>B310</td>
<td>B311</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R13a, HBP/ CBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE419HAG</td>
<td>B130</td>
<td>B131</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE425HAG</td>
<td>B130</td>
<td>B131</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE432HAG</td>
<td>B230</td>
<td>B231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>B330</td>
<td>B331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>B430</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>B630</td>
<td>B631</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>N630</td>
<td>F231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE444HAG</td>
<td>---</td>
<td>S331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ444HAG</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ467HAG</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCH463HAG</td>
<td>B330</td>
<td>B331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R22, HBP/ CBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAE</td>
<td>B330</td>
<td>B331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAE</td>
<td>---</td>
<td>B33X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAE</td>
<td>B430</td>
<td>B431</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE461HAE</td>
<td>B730</td>
<td>B741</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ511HAE</td>
<td>B321</td>
<td>B322</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ511HAE</td>
<td>B420</td>
<td>B421</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ513HAE</td>
<td>B420</td>
<td>B421</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ515HAE</td>
<td>B420</td>
<td>B421</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R17, HBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE432HAA</td>
<td>B230</td>
<td>B231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE432HAA</td>
<td>---</td>
<td>B231</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAA</td>
<td>B330</td>
<td>B331</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAA</td>
<td>B830</td>
<td>B831</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCE443HAA</td>
<td>---</td>
<td>C221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ461HAA</td>
<td>B220</td>
<td>B221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ494HAA</td>
<td>---</td>
<td>C221</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R124a, CBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN413CAG</td>
<td>B630</td>
<td>B631</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN413CAG</td>
<td>C230</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCN416CAG</td>
<td>B630</td>
<td>B631</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R404A, CBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ461CAL</td>
<td>B320</td>
<td>B322</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ484CAL</td>
<td>B520</td>
<td>B322</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>[R404A LBP]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ430LAL</td>
<td>B320</td>
<td>B321</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KCJ450LAL</td>
<td>B320</td>
<td>B321</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>