## SPECIFICATION OF PANASONIC COMPRESSOR

**Model:** DJK51C73RAU  
**115V 60Hz**  
**No.: DJK051U0RFA0B**

### Application:
- Low back pressure
- Refrigerant: R134a (CF₃ CH₂F)
- Design type: Reciprocating connecting rod
- Compressor cooling:
- Fan cooling

### Evaporating temp. range:
-35 °C to -5 °C (-31 °F to 23 °F)

### Refrigerant control:
Capillary tube

### Motor type:
RSCR, PTC relay

### Voltage range:
103V to 127V, 60Hz

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity *</td>
<td>W ±7 %</td>
<td>180</td>
</tr>
<tr>
<td>kW/1000</td>
<td>0.155</td>
<td>0.176</td>
</tr>
<tr>
<td>kJ/h</td>
<td>615</td>
<td>700</td>
</tr>
<tr>
<td>Motor input *</td>
<td>W</td>
<td>105</td>
</tr>
<tr>
<td>A</td>
<td>0.94</td>
<td>0.90</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>±7 %</td>
<td>1.72</td>
</tr>
<tr>
<td>Btu/Wh</td>
<td>5.86</td>
<td>6.96</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condensing temp.:</td>
<td>54.4°C (130°F)</td>
<td>40.6°C (105°F)</td>
</tr>
<tr>
<td>Ambient temp.:</td>
<td>32.2°C (90°F)</td>
<td>32.2°C (90°F)</td>
</tr>
<tr>
<td>Gas superheated to:</td>
<td>32.2°C (90°F)</td>
<td>32.2°C (90°F)</td>
</tr>
<tr>
<td>Liquid subcooled to:</td>
<td>32.2°C (90°F)</td>
<td>32.2°C (90°F)</td>
</tr>
</tbody>
</table>

### Displacement
- cm³: 5.10
- in³: 0.311

### Oil charge
- cm³: 250
- in³: 15.3

### Weight (with oil)
- kg: 9.0
- lbs: 19.8

### Rated current
- A: 1.05

### Starting current
- #1: 7.37/13.63

### Winding resistance
- MΩ (T: 20°C 68°F): 6.10
- Ω (T: 70°C 158°F): 6.69

### High potential test
- V/s: 1800

### Residual moisture
- mg max.: 120

### Impurities
- mg max.: 10

### Motor protector model
- #2: 4TM314LFBYY

### PTC relay model
- #2: 7M6R8M

### Approved oils:
- FREOL alpha10,10E
- EMKARATE RL10HLN,10H

### Note:
- #1: Starting current: A/B  
  A=Amps for UL/CSA, B = Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.

### Approval:
- APPROVED BY: Y. MUNAKATA
- PREPARED BY: M. KAKUTANI

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PANASONIC CORPORATION  
REFRIGERATION DEVICES BUSINESS UNIT

DJK051U0RFA0B.xls
**SPECIFICATION OF PANASONIC COMPRESSOR**

**Model:** DJK51C73RAU 115V 60Hz  
No.: DJK051U0RSA0B

- **Application:** Evaporating temp. range: -35 °C to -5 °C (-31 °F to 23 °F)
- **Refrigerant:** R134a (CF₃ CH₂F) Capillary tube
- **Design type:** Motor type:
  - Reciprocating connecting rod RSCR, PTC relay
- **Compressor cooling:** Voltage range: 103V to 127V, 60Hz
- **Static cooling**

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity * W kcal/h</td>
<td>180</td>
<td>155</td>
</tr>
<tr>
<td>Btu/h ±7 °F</td>
<td>615</td>
<td>176</td>
</tr>
<tr>
<td>Motor input * W</td>
<td>105</td>
<td>700</td>
</tr>
<tr>
<td>Current * A</td>
<td>0.94</td>
<td>0.90</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>1.72</td>
<td>2.04</td>
</tr>
<tr>
<td>E.E.R. * Btu/Wh ±7 °F</td>
<td>5.86</td>
<td>6.96</td>
</tr>
</tbody>
</table>

- **Displacement:** cm³ 5.10
- **Oil charge:** cm³ ±5 cm³ 250
- **Weight (with oil):** kg 9.0
- **Rated current:** A 1.05
- **Starting current:** A 7.37/13.63
- **Winding resistance (T: 20°C 68°F):** M ohm 6.10
- **High potential test:** V/s 1800
- **Residual moisture:** mg max. 120
- **Impurities:** mg max. 10

<table>
<thead>
<tr>
<th>Motor protector model</th>
<th>#2</th>
<th>4TM314NFBYY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Opening temperature</strong> °C</td>
<td>±5 °C</td>
<td>120</td>
</tr>
<tr>
<td>°F</td>
<td>±9 °F</td>
<td>248</td>
</tr>
<tr>
<td><strong>Closing temperature</strong> °C</td>
<td>±9 °C</td>
<td>61</td>
</tr>
<tr>
<td>°F</td>
<td>±16 °F</td>
<td>142</td>
</tr>
<tr>
<td><strong>Trip current (T: 70°C 158°F)</strong> A</td>
<td>±7.5 °C</td>
<td>2.60</td>
</tr>
<tr>
<td><strong>Trip current (T: 25°C 77°F, t: 16 s max)</strong> A</td>
<td>11.3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PTC relay model</th>
<th>#2</th>
<th>7M6R8M</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resistance (T: 25°C 77°F):</strong> ohm</td>
<td>±20 %</td>
<td>6.8</td>
</tr>
<tr>
<td><strong>Power consumption:</strong> W max.</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td><strong>Operating time:</strong> s</td>
<td>0.6 to 1.8</td>
<td></td>
</tr>
<tr>
<td><strong>Recovery time:</strong> s max.</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

- **Starting capacitor** #2 - microF. - V min.
- **Running capacitor** #2 12 microF. 180 V min.

---

**Approved oils:**
- FREL alpha10,10E
- EMKARATE RL10HLN,10H

**Note:**
- #1: Starting current: A/B
  - A=Amps for UL/CSA , B = Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.
  - Combination relay 5SP15*283RF(#)
  - MTP37F04

---

**DATE:** Mar.13.2012

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**PANASONIC CORPORATION**  
REFRIGERATION DEVICES BUSINESS UNIT

**PREPARED BY:** M.KAKUTANI

**APPROVED BY:** Y.MUNAKATA

---

DJK051U0RSA0B.xls
**SPECIFICATION OF PANASONIC COMPRESSOR**

**Model:** DJK57C89RAU 115V 60Hz  No.: DJK057U0RSA0A

**Application:**
- Low back pressure

**Refrigerant:**
- R134a (CF3 CH2F)

**Design type:**
- Reciprocating connecting rod

**Compressor cooling:**
- Capillary tube

**Static cooling:**
- RSCR, PTC relay

**Test conditions**

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Test conditions (1)</th>
<th>Test conditions (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity *</td>
<td>W ±7 % 205 230 kcal/h ±7 % 176 198 Btu/h ±7 % 700 785</td>
<td>Evaporating temp.: -23.3°C (-10°F) Condensing temp.: 54.4°C (130°F)</td>
</tr>
<tr>
<td>Motor input *</td>
<td>W ±7 % 120 116</td>
<td>Ambient temp.: 32.2°C (90°F)</td>
</tr>
<tr>
<td>Current *</td>
<td>A ±7 % 1.05 1.01</td>
<td>Gas superheated to: 32.2°C (90°F)</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>Btu/Wh ±7 % 1.71 1.98</td>
<td>Liquid subcooled to: 32.2°C (90°F)</td>
</tr>
<tr>
<td>E.E.R. *</td>
<td>Btu/Wh ±7 % 5.83 6.77</td>
<td>Comp. shell temp.: 65°C (150°F)</td>
</tr>
</tbody>
</table>

**Displacement**
- cm³: 5.65
- m³: 0.345

**Oil charge**
- cm³: ±5 cm³ 250
- m³: ±0.3 m³: 15.3

**Weight (with oil)**
- kg: 9.4
- lbs: 20.7

**Rated current**
- A: 1.04

**Starting current**
- #1: A 8.7/14.7

**Winding resistance**
- M (T: 20°C 68°F): 5.09
- S (T: 20°C 68°F): 6.79

**High potential test**
- V/s: 1800

**Residual moisture**
- mg max.: 120

**Impurities**
- mg max.: 10

**Motor protector model**
- #2: 4TM314NFBYY

| Opening temperature | 120 | 248 |
| Closing temperature | 61 | 142 |
| Trip current (T: 70°C 158°F) | A ±7.5 % 2.60 |
| Trip current (T: 25°C 77°F, t: 16 s max) | A 11.3 |

**PTC relay model**
- #2: 7M6R8M

| Resistance (T: 25°C 77°F) | ohm ±20 % 6.8 |
| Power consumption | W max. 2.9 |
| Operating time | s 0.6 to 1.8 |
| Recovery time | s max. 60 |

**Starting capacitor**
- #2: - microF. - V min. 12 microF. 210 V min.

**Running capacitor**
- #2: - microF. - V min. 12 microF. 210 V min.

**Approved oils:**
- FREOL alpha10,10E EMKARATE RL10HLN,10H

**Date:** Jan.31.2014 **Date:** Jan.31.2014

**Note:**
- #1: Starting current: A/B
- A=Amps for UL/CSA, B=Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third parties.

- Combination relay
  - 5SP15*314NF(#)
  - MSC72*53J3

---

**Approved by:** PANASONIC CORPORATION
**Prepared by:** REFRIGERATION DEVICES BUSINESS DIVISION

**DATE:** Jan.31.2014 **DATE:** Jan.31.2014
## Specification of Panasonic Compressor

### Model: DJK73C12RAU  115V 60Hz  No.: DJK073U0RSA0A

#### Application:
- Low back pressure

#### Refrigerant:
- R134a (CF₃ CH₂F)

#### Design type:
- Reciprocating connecting rod

#### Compressor cooling:
- Motor type: RSCR, PTC relay

#### Test conditions:

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity * W</td>
<td>270</td>
<td>295</td>
</tr>
<tr>
<td>kcal/h</td>
<td>232</td>
<td>254</td>
</tr>
<tr>
<td>Btu/h</td>
<td>922</td>
<td>1,007</td>
</tr>
<tr>
<td>Motor input * W</td>
<td>150.7</td>
<td>141.8</td>
</tr>
<tr>
<td>Current * A</td>
<td>1.37</td>
<td>1.28</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>1.79</td>
<td>2.08</td>
</tr>
<tr>
<td>E.E.R. * Btu/W</td>
<td>6.12</td>
<td>7.10</td>
</tr>
</tbody>
</table>

#### Displacement

| cm³ | 7.27 |
| in³ | 0.444 |

#### Oil charge

| cm³ | ±5 cm³ | 250 |
| in³ | ±0.3 in³ | 15.3 |

#### Weight (with oil)

| kg | 9.8 |
| lbs | 21.6 |

#### Rated current A

| 1.30 |

#### Starting current

| #1 | 12.1/19.2 |
| #2 | 12.0 |

#### Winding resistance

| M ohm | 3.47 |
| S ohm | 4.98 |

#### High potential test V/s

| 1800 |

#### Residual moisture mg max.

| 120 |

#### Impurities mg max.

| 10 |

### Motor protector model

#### Opening temperature

| °C | ±5 °C | 120 |
| °F | ±9 °F | 248 |

#### Closing temperature

| °C | ±9 °C | 61 |
| °F | ±16 °F | 142 |

#### Trip current

- (T: 70°C 158°F)
  - A | ±7.5 °C | 4.05 |
- (T: 25°C 77°F, t: 16 s max)
  - A | 12.0 |

### PTC relay model

#### Resistance

| ohm | ±20 % | 6.8 |

#### Power consumption W max.

| 2.9 |

#### Operating time s

| 0.6 to 1.8 |

#### Recovery time s max.

| 60 |

### Note:

- #1: Starting current: A/B
  - A = Amps for UL/CSA, B = Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third parties.
- Combination relay #2
  - 5SP15*757LF(#)
  - MSC72F71G3

### Approved oils:

- FREOEL alpha10.10E
- EMKARATE RL10HLN,10H

### Approval and Preparation:

- PANASONIC CORPORATION REFRIGERATION DEVICES BUSINESS DIVISION

- DATE: Nov.26.2013
- PREPARED BY
  - A.TERASAKI
  - KM.SIM

- APPROVED BY
  - DJK073U0RSA0A.xls
## SPECIFICATION OF PANASONIC COMPRESSOR

**Model:** DKK51C78RAU 115V 60Hz  
**No.:** DKK051U0RFA0C

### Application:
- Low back pressure
- Refrigerant: R134a (CF₃ CH₂F)
- Design type: Reciprocating connecting rod
- Compressor cooling: Fan cooling

### Evaporating temp. range:
-35 °C to -5 °C (-31 °F to 23 °F)

### Refrigerant control:
Capillary tube

### Motor type:
RSCR, PTC relay

### Voltage range:
103V to 127V, 60Hz

### Test conditions

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity * W kcal/h Btu/h</td>
<td>180 155 615</td>
<td>205 176 700</td>
</tr>
<tr>
<td>Motor input * W</td>
<td>101.5</td>
<td>97</td>
</tr>
<tr>
<td>Current * A</td>
<td>0.91</td>
<td>0.87</td>
</tr>
<tr>
<td>C.O.P. * Btu/Wh</td>
<td>1.77</td>
<td>2.11</td>
</tr>
<tr>
<td>E.E.R. * Btu/Wh</td>
<td>6.05</td>
<td>7.21</td>
</tr>
<tr>
<td>Displacement cm³ in³</td>
<td>5.10 0.311</td>
<td></td>
</tr>
<tr>
<td>Oil charge cm³ ±5 cm³ in³ ±0.3 in³</td>
<td>250 15.3</td>
<td></td>
</tr>
<tr>
<td>Weight (with oil) kg lbs</td>
<td>9.5 20.9</td>
<td></td>
</tr>
<tr>
<td>Rated current A</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Starting current #1 A</td>
<td>7.5/13.7</td>
<td></td>
</tr>
<tr>
<td>Winding resistance M ohm S ohm</td>
<td>5.44 6.08</td>
<td></td>
</tr>
<tr>
<td>High potential test V/s</td>
<td>1800</td>
<td></td>
</tr>
<tr>
<td>Residual moisture mg max.</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>Impurities mg max.</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

### Motor protector model
- Model: 4TM302LFBYY

### PTC relay model
- Model: 7M6R8M

### Starting capacitor #2
- - microF. - V min.

### Running capacitor #2
- 12 microF. 180 V min.

### Approved oils:
- FREOL alpha10,10E
- EMKARATE RL10HLN,10H

### Note:
- #1: Starting current : A/B  
  A=Amps for UL/CSA , B = Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.
- Combination relay  
  5SP15*302LF(#)  
  MTP37F04
- Where tolerances are not indicated, data is shown for reference only.

**DATE:** Mar.06.2012  
**APPROVED BY:** Y. MUNAKATA  
**PREPARED BY:** M.KAKUTANI
SPECIFICATION OF PANASONIC COMPRESSOR

Model: DKK51C78RAU  115V  60Hz
No.: DKK051U0RFB0A

Application:
- Low back pressure
Refrigerant:
- R134a (CF3 CH2F)
Design type:
- Reciprocating connecting rod
Compressor cooling:
- Motor type:
- Fan cooling

Evaporating temp. range:
-35 °C to -5 °C (-31 °F to 23 °F)
Refrigerant control:
- Capillary tube
Motor type:
- RSCR, PTC relay
Voltage range:
- 103V to 127V, 60Hz

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity *</td>
<td>180</td>
<td>205</td>
</tr>
<tr>
<td>kcal/h ±7 %</td>
<td>155</td>
<td>176</td>
</tr>
<tr>
<td>Btu/h ±7 %</td>
<td>615</td>
<td>700</td>
</tr>
<tr>
<td>Motor input *</td>
<td>101.5</td>
<td>97</td>
</tr>
<tr>
<td>W</td>
<td>0.91</td>
<td>0.87</td>
</tr>
<tr>
<td>Current *</td>
<td>±7 %</td>
<td>1.77</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>6.05</td>
<td>7.21</td>
</tr>
<tr>
<td>E.E.R. *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Displacement
- cm³ 5.10
- in³ 0.311

Oil charge
- cm³ 250
- in³ 15.3

Weight (with oil)
- kg 9.5
- lbs 20.9

Rated current
- A 1.00

Starting current
- A 7.5/13.7

Winding resistance
- M 5.44
- ohm 6.08

High potential test
- V/ς 1800

Residual moisture
- mg max. 120

Impurities
- mg max. 10

Motor protector model
- #2 4TM302LFBYY

Opening temperature
- °C ±5 °C 110
- °F ±9 °F 230

Closing temperature
- °C ±9 °C 61
- °F ±16 °F 142

Trip current
- (T: 70°C 158°F) A ±7.5 % 2.01
- (T: 25°C 77°F, t: 16 s max) A 10.5

PTC relay model
- #2 7M6R8M

Resistance
- (T: 25°C 77°F) ohm ±20 % 6.8

Power consumption
- W max. 2.9

Operating time
- s 0.6 to 1.8

Recovery time
- s max. 60

Starting capacitor
- #2 - microF. - V min.

Running capacitor
- #2 12 microF. 180 V min.

Evaporating temp.: -23.3°C (-10°F) -23.3°C (-10°F)
Condensing temp.: 54.4°C (130°F) 40.6°C (105°F)
Ambient temp.: 32.2°C (90°F) 32.2°C (90°F)
Gas superheated to: 32.2°C (90°F) 32.2°C (90°F)
Liquid subcooled to: 32.2°C (90°F) 32.2°C (90°F)
Comp. shell temp.: 65°C (150°F) 65°C (150°F)
Power source: 115V 60Hz 115V 60Hz

Approved oils:
- FREOL alpha10,10E
- EMKARATE RL10HLN,10H

Note:
- #1: Starting current : A/B
  A=Amps for UL/CSA , B = Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.
- Combination relay
  5SP15*302LF(#)
  5SP15*302NF(#)
  37302LFB6R8HMA2

## Where tolerances are not indicated, data is shown for reference only.


A.TERASAKI  KM.SIM
APPROVED BY  PREPARED BY

PANASONIC CORPORATION
REFRIGERATION DEVICES BUSINESS DIVISION
### SPECIFICATION OF PANASONIC COMPRESSOR

**Model:** DKK51C78RAU  **115V 60Hz**  
**No.:** DKK051U0RSA0C

**Application:**  
Low back pressure
Refrigerant: R134a (CF₃ CH₂F)
Design type: Reciprocating connecting rod
Compressor cooling: Static cooling

#### Evaporating temp. range:
-35 °C to -5 °C (-31 °F to 23 °F)

#### Refrigerant control:
Capillary tube

#### Motor type:
RSCR, PTC relay

#### Voltage range:
103V to 127V, 60Hz

<table>
<thead>
<tr>
<th>Test conditions</th>
<th>(1)</th>
<th>(2)</th>
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</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>W ±7 %</td>
<td>180</td>
</tr>
<tr>
<td><strong>Motor input</strong></td>
<td>W</td>
<td>101.5</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>A</td>
<td>0.91</td>
</tr>
<tr>
<td><strong>C.O.P.</strong></td>
<td>±7 %</td>
<td>1.77</td>
</tr>
<tr>
<td><strong>E.E.R.</strong></td>
<td>Btu/Wh ±7 %</td>
<td>6.05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Displacement</th>
<th>cm³</th>
<th>5.10</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil charge</td>
<td>cm³</td>
<td>±5 cm³</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>cm³</td>
<td>±0.3 cm³</td>
<td>15.3</td>
</tr>
<tr>
<td>Weight (with oil)</td>
<td>kg</td>
<td>9.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td>20.9</td>
<td></td>
</tr>
<tr>
<td>Rated current</td>
<td>A</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Starting current</td>
<td>A</td>
<td>7.5/13.7</td>
<td></td>
</tr>
<tr>
<td>Winding resistance (T: 20°C 68°F)</td>
<td>M</td>
<td>5.44</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>6.08</td>
<td></td>
</tr>
<tr>
<td>High potential test</td>
<td>V/s</td>
<td>1800</td>
<td></td>
</tr>
<tr>
<td>Residual moisture</td>
<td>mg max.</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>Impurities</td>
<td>mg max.</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

### Motor protector model

- **4TM302LFBYY**

| Opening temperature | °C ±5 °C | 110 |
| Closing temperature | °F ±9 °F | 230 |
| Trip current (T: 70°C 158°F) | A | 7.5 % | 2.01 |
| Trip current (T: 25°C 77°F, t: 16 s max) | A | 10.5 |

### PTC relay model

- **7M6R8M**

| Resistance (T: 25°C 77°F) | ohm ±20 % | 6.8 |
| Power consumption | W max. | 2.9 |
| Operating time | s | 0.6 to 1.8 |
| Recovery time | s max. | 60 |

### Approved oils:

- FREOL alpha10,10E
- EKARATE RL10HLN,10H

### Note:

1. Starting current : A/B  
   A=Amps for UL/CSA , B = Amps at 2 phase start.
2. Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.
   
   - Combination relay
   - 5SP15*302LF(#)
   - MTP37F04

### Where tolerances are not indicated, data is shown for reference only.

**DATE:** Mar.06.2012  **PREPARED BY:** Y. MUNAKATA

**DATE:** Mar.06.2012  **APPROVED BY:** M.KAKUTANI

**PANASONIC CORPORATION**  **REFRIGERATION DEVICES BUSINESS UNIT**

DK051U0RSA0C.xls
## SPECIFICATION OF PANASONIC COMPRESSOR

**Model:** DKK57C90RAU  115V 60Hz  
**No.:** DKK057U0RSA0A

### Application:
- Low back pressure
- Evaporating temp. range: -35 °C to -5 °C (-31 °F to 23 °F)

### Refrigerant:
- R134a (CF₃ CH₂F)
- Refrigerant control: Capillary tube
- Motor type: RSCR, PTC relay

### Design type:
- Reciprocating connecting rod
- Motor input: W
- Voltage range: 103V to 127V, 60Hz

<table>
<thead>
<tr>
<th>Capacity *</th>
<th>W</th>
<th>±7 %</th>
<th>205</th>
<th>230</th>
</tr>
</thead>
<tbody>
<tr>
<td>kcal/h</td>
<td>±7 %</td>
<td>176</td>
<td>198</td>
<td></td>
</tr>
<tr>
<td>Btu/h</td>
<td>±7 %</td>
<td>700</td>
<td>785</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Motor input *</th>
<th>W</th>
<th>±7 %</th>
<th>111.2</th>
<th>105.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current *</td>
<td>A</td>
<td>±7 %</td>
<td>1.01</td>
<td>0.95</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>Btu/h</td>
<td>±7 %</td>
<td>1.84</td>
<td>2.18</td>
</tr>
<tr>
<td>E.E.R. *</td>
<td>Btu/Wh</td>
<td>±7 %</td>
<td>6.29</td>
<td>7.46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Displacement</th>
<th>cm³</th>
<th>5.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>in³</td>
<td>0.345</td>
<td></td>
</tr>
<tr>
<td>Oil charge</td>
<td>cm³</td>
<td>±5 cm³</td>
</tr>
<tr>
<td>in³</td>
<td>±0.3 in³</td>
<td>15.3</td>
</tr>
<tr>
<td>Weight (with oil)</td>
<td>kg</td>
<td>9.7</td>
</tr>
<tr>
<td>lbs</td>
<td>21.4</td>
<td></td>
</tr>
<tr>
<td>Rated current</td>
<td>A</td>
<td>1.00</td>
</tr>
<tr>
<td>Starting current #1</td>
<td>A</td>
<td>8.7/15.2</td>
</tr>
<tr>
<td>Winding resistance</td>
<td>M ohm</td>
<td>4.58</td>
</tr>
<tr>
<td>(T: 20°C 68°F)</td>
<td>S ohm</td>
<td>5.73</td>
</tr>
<tr>
<td>High potential test</td>
<td>V/ls</td>
<td>1800</td>
</tr>
<tr>
<td>Residual moisture</td>
<td>mg max.</td>
<td>120</td>
</tr>
<tr>
<td>Impurities</td>
<td>mg max.</td>
<td>10</td>
</tr>
</tbody>
</table>

### Motor protector model #2
- 4TM314NFBYY or 5TM314NFBYY
- Note: #1: Starting current: A/B  
  A=Amps for UL/CSA, B=Amps at 2 phase start.  
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.

### PTC relay model #2
- TM6R8M

<table>
<thead>
<tr>
<th>Resistance</th>
<th>ohm</th>
<th>±21 %</th>
<th>6.76</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>W max.</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Operating time</td>
<td>s</td>
<td>0.6 to 1.8</td>
<td></td>
</tr>
<tr>
<td>Recovery time</td>
<td>s max.</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

| Starting capacitor #2 | - microF. | - V min. |  |
| Running capacitor #2 | 12 microF. | 180 V min. |

**DATE:** Jun.26.2012  
**PREPARED BY:** Y. MUNAKATA  
**APPROVED BY:** KM.SIM
## Specification of Panasonic Compressor

**Model:**

- Model: DKK57C90RAU
- 115V 60Hz
- No.: DKK057U0RSB0B

### Application:

- Low back pressure

### Refrigerant:

- R134a (CF₃ CH₂F)

### Design Type:

- Reciprocating connecting rod

### Compressor Cooling:

- Static cooling

### Test Conditions:

<table>
<thead>
<tr>
<th>Condition</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity *</td>
<td>205 kcal/h ±7 % 176</td>
<td>230 kcal/h ±7 % 198</td>
</tr>
<tr>
<td>Motor input *</td>
<td>113.0 W 700 Btu/h ±7 % 785</td>
<td>107.4 W 770 Btu/h ±7 % 785</td>
</tr>
<tr>
<td>Current *</td>
<td>A ±7 % 1.81</td>
<td>0.97 ±7 % 2.14</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>* Bu/h Wh ±7 % 6.19</td>
<td>7.31</td>
</tr>
</tbody>
</table>

### Displacement:

- cm³ 5.65
- in³ 0.345

### Oil Charge:

- cm³ 250
- in³ 15.3

### Weight (with oil):

- kg 9.7
- lbs 21.4

### Rated Current:

- A 1.00

### Starting Current:

- A #1 8.7/15.2

### Winding Resistance:

- M 4.58 ohm
- S 5.73 ohm

### High Potential Test:

- V/s 1800

### Residual Moisture:

- mg max. 120

### Impurities:

- mg max. 10

### Motor Protector Model:

- #2 4TM314NFBYY or 5TM314NFBYY

<table>
<thead>
<tr>
<th>Condition</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening temperature</td>
<td>°C ±5 °C 120</td>
<td>°F ±9 °F 248</td>
</tr>
<tr>
<td>Closing temperature</td>
<td>°C ±9 °C 61</td>
<td>°F ±16 °F 142</td>
</tr>
<tr>
<td>Trip current</td>
<td>A ±7.5 % 2.60</td>
<td>2.41</td>
</tr>
<tr>
<td>Trip current (T: 25°C 77°F, t: 16 s max)</td>
<td>A 11.3</td>
<td>10.5</td>
</tr>
</tbody>
</table>

### PTC Relay Model:

- #2 7M6R8M

<table>
<thead>
<tr>
<th>Condition</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistant resistance</td>
<td>ohm ±20 % 6.80</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>W max. 2.9</td>
<td></td>
</tr>
<tr>
<td>Operating time</td>
<td>s 0.6 to 1.8</td>
<td></td>
</tr>
<tr>
<td>Recovery time</td>
<td>s max. 60</td>
<td></td>
</tr>
</tbody>
</table>

### Note:

- #1: Starting current: A/B
  - A=Amps for UL/CSA, B=Amps at 2 phase start.
- #2: Although the following components are also listed by UL/CSA for use with this compressor, Panasonic assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third refrigerator manufacturer from third parties.
- Combination relay #2 5SP15'314NF(#)
  - MTP41F04

### Approved Oils:

- FREOL alpha10,10E
- EMKARATE RL10HLN,10H

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**DATE:** Jun.27.2013  **DATE:** Jun.27.2013

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**APPROVED BY:**

- KM.SIM

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**PREPARED BY:**

- A.TERASAKI

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**PANASONIC CORPORATION**

**REFRIGERATION DEVICES BUSINESS DIVISION**

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**DKK057U0RSB0B.xls**