### SPECIFICATION OF PANASONIC COMPRESSOR

**Model:** SHJ51C90RAU  
**115V 60Hz**  
**No.: SHJ051UERSA0A**

**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

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**Capacity**  
W ±7%  182  
kcal/h ±7%  157  
Btu/h ±7%  621

**Motor input**  
W  122  
A  1.09  
±7%  1.49  
Btu/Wh ±7%  5.09

**Displacement**  
cm³  5.10  
in³  0.311

**Oil charge**  
cm³ ±5 cm³  195  
in³ ±0.3 in³  11.9

**Weight (with Oil)**  
kg  7.1  
lbs  15.6

**Rated current**  
A  1.11  
Starting current #1 A  8.9/14.9

**Winding resistance**  
M ohm  4.42  
S ohm  7.22

**High potential test**  
V/s  1800

**Residual moisture**  
mg max.  120

**Impurities**  
mg max.  7

**Motor protector model**  
#2 4TM319MBYY

**Opening temperature**  
°C ±5 °C  115  
°F ±9 °F  239

**Closing temperature**  
°C ±9 °C  69  
°F ±16 °F  156

**Trip current**  
(T: 70°C 158°F) A ±7.5%  2.70

**Trip current**  
(T: 25°C 77°F, t: 16 s max) A  12.0

**PTC relay model**  
#2 7M6R8M

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

**Power consumption**  
W max.  2.9

**Operating time**  
s max.  0.6 to 1.8

**Recovery time**  
s max.  60

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

**Running capacitor**  
#2 15 microF. 180 V min.

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**Approved oils:**  
FREOL alpha10, 10E  
EMKARATE RL10HLN, 10H  
SUNISO SL10SC, 10S

**#1: Starting current : A/B**  
A = Amps for UL/CSA  
B = Amps at 2 phase start.

**#2: Although these components have passed test 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*314MH(#)  
  MSC72F51J3

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

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**DATE:** Jan.11.2013  
**APPROVED BY:** Y. MUNAKATA

**DATE:** Jan.11.2013  
**PREPARED BY:** KM.SIM
**SPECIFICATION OF PANASONIC COMPRESSOR**

**Model:** SJJ39C58RBU  115V 60Hz  **No.:** SJJ039UERSB0A

<table>
<thead>
<tr>
<th>Application: Low back pressure</th>
<th>Evaporating temp. range: -35 °C to -5 °C (-31 °F to 23 °F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant: R134a (CF₃ CH₂F)</td>
<td>Refrigerant control: Capillary tube</td>
</tr>
<tr>
<td>Design type: Reciprocating connecting rod</td>
<td>Motor type: RSCR, PTC relay</td>
</tr>
<tr>
<td>Compressor cooling: Static cooling</td>
<td>Voltage range: 103 to 127V, 60Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Capacity *</th>
<th>W ±7 %</th>
<th>132</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kcal/h ±7 %</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td>Btu/h ±7 %</td>
<td>451</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Motor input *</th>
<th>W</th>
<th>85.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current *</td>
<td>A</td>
<td>0.74</td>
</tr>
<tr>
<td>C.O.P. *</td>
<td>±7 %</td>
<td>1.54</td>
</tr>
<tr>
<td>E.E.R. *</td>
<td>Btu/Wh ±7 %</td>
<td>5.27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Displacement</th>
<th>cm³</th>
<th>3.90</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in³</td>
<td>0.238</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oil charge</th>
<th>cm³</th>
<th>±5 cm³</th>
<th>195</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in³</td>
<td>±0.3 in³</td>
<td>11.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight (with Oil)</th>
<th>kg</th>
<th>7.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs</td>
<td>15.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated current</th>
<th>A</th>
<th>0.78</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting current</td>
<td>A</td>
<td>5.5/10.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Winding resistance M (T: 20°C 68°F)</th>
<th>ohm</th>
<th>6.56</th>
</tr>
</thead>
<tbody>
<tr>
<td>High potential test V/s</td>
<td>1800</td>
<td></td>
</tr>
</tbody>
</table>

| Residual moisture | mg max. | 120 |
| Impurities       | mg max. | 7  |

<table>
<thead>
<tr>
<th>Motor protector model #2</th>
<th>4TM265MHBY or 5TM265MHBYY</th>
<th>7M6R8M</th>
</tr>
</thead>
</table>

| Opening temperature | °C ±5 °C | 115 |
| Closing temperature | °F ±9 °F | 239 |
| Trip current (T: 70°C 158°F) | °C ±7.5 °C | 1.84 | 1.81 |
| Trip current (T: 25°C 77°F, t: 16 s max) | A | 9.3 |

<table>
<thead>
<tr>
<th>PTC relay model #2</th>
<th>7M6R8M</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Eco Relay</th>
<th>Resistance (T: 25°C 77°F)</th>
<th>ohm</th>
<th>±21 %</th>
<th>6.8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power consumption W max.</td>
<td>2.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Operating time s max.</td>
<td>0.6 to 1.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recovery time s max.</td>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Starting capacitor #2</td>
<td>- microF. - V min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Running capacitor #2</td>
<td>10 microF. 180 V min.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Motor protector model #2**

- 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*265MH#

**PTC relay model #2**

- Eco Relay
- 5SP15*265MH#

**Impurities**

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

**DATE:** Mar.10.2014  **DATE:** Mar.10.2014

**APPROVED BY:** KM. SIM  **PREPARED BY:** A. TERASAKI

**PANASONIC CORPORATION**
**REFRIGERATION DEVICES BUSINESS DIVISION**

**SJJ039UERSB0A.xls**
## SPECIFICATION OF PANASONIC COMPRESSOR

**Model:** SJJ51C88RAU 115V 60Hz  
**No.:** SJJ051UERSB0A

### Application:
- Low back pressure

### Refrigerant:
- R134a (CF₃ CH₂F)

### Design type:
- Reciprocating connecting rod

### Compressor cooling:
- Static cooling

### Volts range:
- 103V to 127V, 60Hz

### Condenser temp. range:
- 54.4°C (130°F) - 40.6°C (105°F)

### Motor input:
- **W**: 115 - 106.7

### Current:
- **A**: 1.02 - 0.95

### C.O.P.:
- **±7 %**: 1.58 - 1.84

### E.E.R.:
- **±7 %**: 5.40 - 6.28

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

### Oil charge:
- **cm³**: ±5 cm³
- **in³**: ±0.3 in³

### Weight (with oil):
- **kg**: 7.0
- **lbs**: 15.4

### Rated current:
- **A**: 1.04

### Winding resistance:
- **ohm**: 4.14
- **ohm**: 6.21

### High potential test:
- **Vls**: 1800

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

### Impurities:
- **mg max.**: 7

### Motor protector model:
- **#2**: 4TM302MHBBYY

### Opening temperature:
- **°C**: 115
- **°F**: 239

### Closing temperature:
- **°C**: 69
- **°F**: 156

### Trip current:
- **A**: 2.13

### Trip current (T: 70°C 158°F):
- **A**: 10.5

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

### Resistance:
- **ohm**: 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**: 15 microF. 180 V min.

### Approved oils:
- FREOL
- alpha10,10E, 10W…#3
- EMKARATE RL10HLN,10H
- SUNISO SL10SC,10S

### Starting current:
- **#1**: A
- **#2**: 8.5/14.8

### Motor protector model:
- **#2**: 7M6R8M

### Operating time:
- **s**: 0.6 to 1.8

### Recovery time:
- **s max.**: 60

### Date:
- **Mar.03.2014**  
- **DATE:** Mar.03.2014

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**Note:**

1. Starting current: A/B
2. Starting current: A/B
3. 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.
4. System manufacturers assume all risk of consequences due to such deposits.

---

**DATE:** Mar.03.2014  
**DATE:** Mar.03.2014

**APPROVED BY:**  
**PREPARED BY:**

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**APPROVED BY:**

**PREPARED BY:**