**RLC-1800 Rack Mount Liquid Chiller**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>PUMP OPTION</th>
<th>PERFORMANCE RATING BTU/HR</th>
<th>VOLTAGE VAC 50/60 HZ</th>
<th>CURRENT AMPS.*</th>
<th>WEIGHT LBS. (KG)</th>
<th>MAX OPERATING AMBIENT</th>
<th>FLUID TEMP. RANGE °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLC-1800</td>
<td>8-04KB-1-0A1</td>
<td>1</td>
<td>2000-2200</td>
<td>100-240</td>
<td>7</td>
<td>75 (34)</td>
<td>50 °C (+122 F)</td>
<td>0 to 50</td>
</tr>
<tr>
<td>RLC-1800</td>
<td>8-04KB-1-0A2</td>
<td>2</td>
<td>2000-2200</td>
<td>100-240</td>
<td>7</td>
<td>75 (34)</td>
<td>50 °C (+122 F)</td>
<td>-20 to 90</td>
</tr>
<tr>
<td>RLC-1800</td>
<td>8-04KB-1-0A3</td>
<td>3</td>
<td>2000-2200</td>
<td>100-240</td>
<td>7</td>
<td>75 (34)</td>
<td>50 °C (+122 F)</td>
<td>-20 to 90</td>
</tr>
<tr>
<td>RLC-1800</td>
<td>8-04KB-1-0A4</td>
<td>4</td>
<td>2000-2200</td>
<td>100-240</td>
<td>7</td>
<td>75 (34)</td>
<td>50 °C (+122 F)</td>
<td>0 to 50</td>
</tr>
</tbody>
</table>

* Reflects current draw @ 120 VAC, 60 Hz input

**STANDARD FEATURES**

- Compact only 19” x 25” x 10.5”
- Front and rear fluid ports
- Heats and cools 0 to 50 °C or -20 to 90 °C
- Standard 19” rack mounting
- Low pressure drop 3/8 ID fluid quick connects
- Remote Sensibility™
- User friendly front fill design
- Easy prime/pump reset feature
- Wide process fluid temperature range
- Stainless steel exterior housing
- Over temperature protection
- External washable aluminum air filter

**CONTROL FEATURES**

- Integral “tunable” PWM temperature control
- PWM, Bi-directional temperature control
- 4 Programable temperature zones with 4 independent PID settings
- Multi-segment ramp and soak programs with loops
- Internal RTD sensor, built into the fluid circuit
- Remote Sensibility™ switchable to exterior accessory RTD sensor
- USB communication with easy to use software
- Labview VI examples available

**PUMP OPTIONS**

- Option #1 - Standard Magnetic Drive, Can Pump, 0 to 50 °C process temperature
- Option #2 - Low Temperature Magnetic Drive, Impeller Pump, -20 to 90 °C process temperature
- Option #3 - Gear pump, 3.75 Liter/Min, -20 to 90 °C process temperature
- Option #4 - High Flow Magnetic Drive, Can Pump, 0 to 50 °C process temperature
PERFORMANCE CURVE

Curves below represent performance of systems with pump option 1. Performance curves for systems with other pumps will be different.

Equation of line: \( y = T(\degree \text{C}) \times \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Capacity (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°C</td>
<td>y = 0.05x - 31.4</td>
</tr>
<tr>
<td>50°C</td>
<td>y = 0.05x - 32.1</td>
</tr>
</tbody>
</table>

PUMP CURVE

DIMENSIONS

Ambient Air Path

www.teca-eu.com 1-888-TECA-USA (832-2872)