RLC-900 Rack Mount Liquid Chiller

**Air Cooled**

**100-240 VAC Input**

**Rack Mount**

**310 Watts**

---

**STANDARD FEATURES**

- Compact only 19” x 25” x 9”
- 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

---

**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-900</td>
<td>8-E4KB-1-0A1</td>
<td>1</td>
<td>1050-1100</td>
<td>100-240</td>
<td>3.5</td>
<td>59 (27)</td>
<td>50 °C (+122 F)</td>
<td>0 to 50</td>
</tr>
<tr>
<td>RLC-900</td>
<td>8-E4KB-1-0A2</td>
<td>2</td>
<td>1050-1100</td>
<td>100-240</td>
<td>3.5</td>
<td>59 (27)</td>
<td>50 °C (+122 F)</td>
<td>-20 to 90</td>
</tr>
<tr>
<td>RLC-900</td>
<td>8-E4KB-1-0A3</td>
<td>3</td>
<td>1050-1100</td>
<td>100-240</td>
<td>3.5</td>
<td>59 (27)</td>
<td>50 °C (+122 F)</td>
<td>-20 to 90</td>
</tr>
<tr>
<td>RLC-900</td>
<td>8-E4KB-1-0A4</td>
<td>4</td>
<td>1050-1100</td>
<td>100-240</td>
<td>3.5</td>
<td>59 (27)</td>
<td>50 °C (+122 F)</td>
<td>0 to 50</td>
</tr>
</tbody>
</table>

* Reflects current draw @ 120 VAC, 60 Hz input

---

**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.

**ENVIRONMENTS**

- 19” rack mount
- Laboratory
- Industrial

**COOLING CAPACITY**

310 Watts @ 0 °C ΔT

---

**Liquid Chiller - Air Cooled**

**RLC-900**

**DIMENSIONS**

- 310 Watts @ 0 °C ΔT
- **Ambient Air Path**

---

**PUMP CURVE**

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

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>25°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>( y )</td>
<td>0.101x-31.4</td>
<td>0.100x-32.1</td>
</tr>
</tbody>
</table>