Aquatherm RQE Basic Temperature Controller

Standard Features

High-Flow Pumps
Designed to meet the rapid cooling requirements of injection mold cooling our energy-efficient pumps provide the best flow available in the industry.

Long-Life Heaters
Incoloy sheathed heater elements provide the best combination of performance and longevity with better corrosion resistance than copper or stainless steel heaters.

Leak-Proof Pump/Heater Assembly
Heavy-duty cast-iron pumps, heater tubes, and mixing tubes with O-ring seals eliminate threaded fittings that can cause internal pressure losses and are prone to leaks.

Long-Life Pump Seals/Internal Flushing System
High-temperature pump seals with an integral flush system and turbulence ribs inside the seal chamber extend seal life and are more energy efficient than external seal flush lines.

High-Performance Cooling Valves
Fast-acting solenoid valves respond quickly and precisely to any sudden changes in the process and ensure consistent mold temperatures all the time.

Tilted Front Panel
Conveniently angled for optimal viewing, our front panel offers quick and easy monitoring and adjustment of the set point and other control functions.

Easy Access Cabinet
Lift-off cover for quick pump and heater access and an easy-open front electrical control panel door for quick and easy component access.

Front Facing Pressure Gauges
Large easy-to-read supply and return water pressure gauges located on the angled front of the unit provide easy monitoring of the mold circuit and unit performance.

Internal Extended Power Cord
An internal extended power cord from the control panel to the pump motor eliminates the need to disconnect pump motor wiring for replacing a pump seal.

Automatic Air Purge with 120°F Air Purge Cancel
At start-up our automatic air purge sequence deactivates when the mold circuit is above 120°F to avoid cooling of the mold during temporary power interruptions.

Pump and Heater Running Hours Display
Running hour meters for both pump and heater provide a quick and easy way to check on total machine run time to better plan for routine maintenance.

Temperature Deviation Warnings and Alarms
Provides a visual alert of a potential problem before a fault occurs. If the condition worsens, the alarm sounds and the unit stops to prevent equipment damage.
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Adjustable Deviation Alarm Time Delays
A programmable alarm time delay eliminates nuisance alarms at start-up by allowing the unit to reach a stable temperature before activating the temperature alarms.

Supply and Return Temperature Display
Continuous display of the set point and supply temperatures and ability to check the return temperature for complete monitoring of the process and unit operation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Heating Capacity kW</th>
<th>Pump Performance</th>
<th>Unit FLA 460V</th>
<th>Ship Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RQE1208</td>
<td>12</td>
<td>¾</td>
<td>40</td>
<td>26</td>
</tr>
<tr>
<td>RQE1220</td>
<td>12</td>
<td>2</td>
<td>75</td>
<td>30</td>
</tr>
</tbody>
</table>

Warranty
3 year entire unit parts
3 year labor
Lifetime pump/heater casting
Lifetime standard pump seal

Net Pump Performance
Based on Water at 50°F, 60 Hz

![Graph showing net pump performance based on water at 50°F, 60 Hz.](image)

**Flow (gpm)**

Pressure (psi)

- 2 hp
- ¾ hp

1½" To Process
1¼" From Process
1" Cooling In
1" Cooling Out

Connection locations vary based on the heating capacity and options selected and are not shown.

14" 26" 28"

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Thermal Care is ISO-9001 Certified
Manufacturer reserve the right to change specification or design without notification or obligation

RQE Basic Specification 00