

# Aquatherm

## RQT Standard Series



High flow pumps for exceptional flow rates



Intuitive PLC for easy programming and diagnostic control



Built to last with the best possible components

## MOLD TEMPERATURE CONTROL UNITS

$\frac{3}{4}$  to 3 hp (0.56 to 2.24 kW)

*Engineered for Precision. Built for Performance and Value.*

The Aquatherm RQT Series water temperature control units are compact, high-performance solutions designed to boost production efficiency with exceptional accuracy and reliability, in a value package.

Each unit is constructed with premium components—cast pump volutes, heater tubes, mixing assemblies, high-flow pumps with leak-resistant silicon carbide seals, and rugged Incoloy-sheathed heaters—ensuring years of maintenance-free operation in demanding environments.

Simple control and data management are at the core of the RQT Series. The RQT Standard features an intuitive LCD interface and customizable parameters for precise temperature regulation.

<b>High Flow Pumps</b>	Designed to meet rapid cooling requirements, our energy-efficient pumps provide the best flow available in the industry. Sizes are ¾ to 3 hp (0.56 to 2.24 kW). Silicon carbide pump seals are standard.
<b>Long Life Heaters</b>	Incoloy sheathed heater elements offer superior performance, longevity, and corrosion resistance compared to copper or stainless steel options. 9 kW, 12 kW and 18 kW heaters are standard.
<b>Leak Proof Pump/Heater Assembly</b>	Heavy-duty cast-iron pumps, heater tubes, and mixing tubes with O-ring seals reduce threaded fittings that can cause internal pressure losses and are prone to leaks.
<b>Long Life Pump Seals/Internal Flushing System</b>	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.
<b>High Performance Solenoid Valves</b>	Fast-acting solenoid valves respond quickly and precisely to sudden changes in the process and ensure consistent mold temperatures.
<b>24 VDC Control Circuit Power</b>	Dependable and safe control circuit power, isolates the control circuit from static interference for stable and precise operation.
<b>Tilted Front Panel</b>	Conveniently angled for optimal viewing, quick and easy monitoring and adjustment of the set point and other control functions.
<b>Pressure Gauges</b>	Large easy-to-read supply and return water pressure gauges on the top for easy monitoring of the mold circuit and unit performance.
<b>Intelligent Air Purge with 120°F (49°C) Air Purge Cancel</b>	At start-up our automatic air purge sequence deactivates when the mold circuit is above 120°F (49°C) to avoid cooling of the mold during temporary power interruptions.
<b>Standard PLC Controller</b>	Easy to use LCD screen with adjustable parameters offers exact temperature control.
<b>Pump and Heater Running Hours Display</b>	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.
<b>Temperature Deviation Warnings and Alarms</b>	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.
<b>Adjustable Deviation Alarm Time Delays</b>	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.
<b>Supply and Return Temperature Display</b>	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.
<b>Warranty</b>	Three year parts and labor.

