

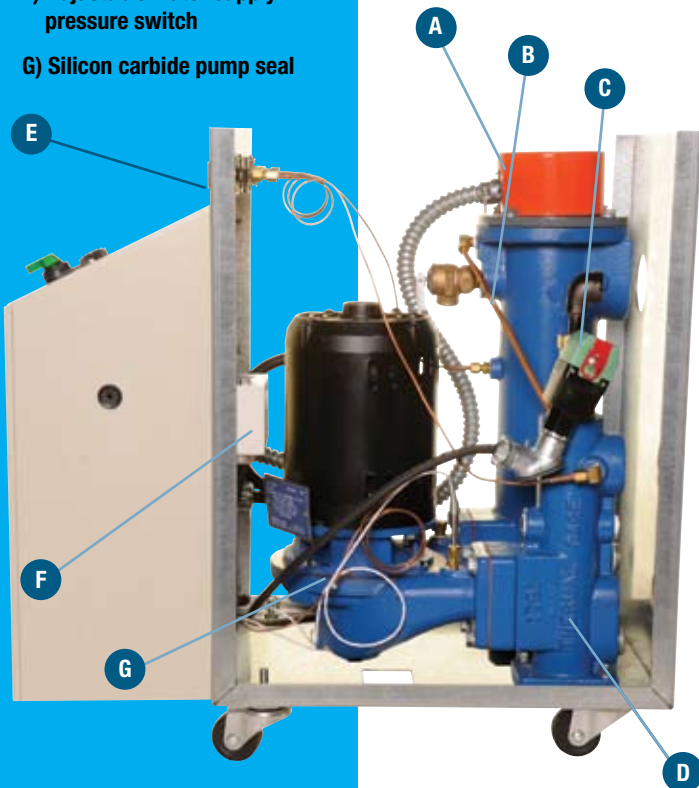
Temperature Controllers Aquatherm RQ Series

When you need a compact water temperature control unit for your application, you can count on Thermal Care. With decades of experience, we understand how to meet your temperature control equipment needs.

Accurate, dependable and easy-to-use

Aquatherm RQ Series temperature controllers are perfect for manufacturing facilities that require dependable units that are easy to install and simple to operate. These compact units are designed to provide accurate and consistent process water temperature control when either heating or cooling. Units are built with quality components – like durable, cast pump volute/ heater tube/mixing assemblies, Incoloy sheathed heaters, silicon carbide pump seals and bronze or stainless steel impellers. Each control system comes with a large user-friendly operator interface that provides a wide array of operational and diagnostic information.

- A) Incoloy heaters
- B) Bypass line
- C) 24 VDC solenoid valve
- D) Twin tank/pump assembly
- E) Dual pressure gauges
- F) Adjustable water supply pressure switch
- G) Silicon carbide pump seal



Available in sizes from 9 to 24 kW, 3/4 to 7 1/2 HP

Features

Low voltage 24 VDC control keeps the control circuit signals free from AC interference

Complete tools-free accessibility

Solid top protects motor from dirt or fluid contamination

Four swivel casters for easy movement

Pressure gauges located on the front panel

Adjustable coolant inlet supply pressure switch

High capacity pumps with bronze or stainless steel impellers

Long-life, low-watt density Incoloy heaters resist corrosion better than copper or stainless steel

Leak-proof, cast twin tank/pump assembly eliminates pipe fittings

Internal bypass line for pump protection under low flow conditions

Leak-resistant, silicon carbide severe-duty pump seal (optional on 5 HP and 7 1/2 HP)

Built-in sediment trap and pump seal flush line extends life of pump seal

Seal saver automatically cools process water down to 90°F when unit shuts off to extend life of seal and for operator safety

Extended motor power cord simplifies pump seal replacement

Compact design approximately 26"l x 14"w x 25"h

Horn with silence switch

Options

Modulating cooling valves

Lockable rotary disconnect switch

Mold water purge*

Crash cool*

300°F operation (250°F is standard)

Alarm strobe light

**premium unit only*

Exclusive microprocessor controls for Aquatherm RQ Series Temperature Controllers.

Easy-to-operate control panel

Each control system comes with a large, user-friendly operator interface that provides a wide array of operational and diagnostic information. No more cryptic codes or confusing instruction manuals. The control panel is easy to access, view and operate. Plus, the entire panel is sealed to protect the controller from dirt or fluid contamination.



Premium unit



Standard unit

Features

- Adjustable automatic air vent sequence at start-up with safety cancellation above 120°F
- Coolant supply low pressure alarm
- Password protected operational parameters
- Set point and process supply and return temperature displays
- Temperature readout easily switched between °F and °C
- Programmable high temperature safety set for 260°F
- Thirty-minute deviation delay stops nuisance alarms at start-up and set point changes
- Unit alarms easily reset on control panel
- RTD temperature sensors and full PID temperature control loops provide accurate and consistent temperatures for +/- 1°F accuracy

**premium unit only*

- High and low temperature deviation alarm tracks with set points
- Power failure indicator warns of brown out incidence
- Pump running hours
- Pump seal saver sequence
- Remote heat/cool interface*
- Heat error diagnostics*
- Loss of phase/phase reversal/phase imbalance alarm*

Options

- Remote start/stop contacts
- Hand held remote control panel*
- SPI or ModBus RTU communication port*
- Process flow display*

Every Thermal Care Aquatherm RQ Series Temperature Controller comes with the industry's best warranties.

Lifetime warranty

- on casting
- on pump seal

Five-year warranty

- on controller – *with lifetime exchange price of \$175*

Three-year warranty

- on parts and labor

Count on Thermal Care to be your one source for a complete line of dependable process cooling equipment. From system design through equipment start-up, to exceptional service and repair parts – Thermal Care does it all.

For additional specifications and system information, please visit us on the web at www.thermalcare.com



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