

Mini-Aquatherm RMC Series

Water Temperature Controller

Benefits:

- **Familiar Look:** Offers the same functionality as the Aquatherm RQT Series but in a compact footprint.
- **Compact, Low Profile:** Is 42% smaller and 22% shorter than RQT Series units. At just over 14-inches tall, it's one of the smallest TCU's available in the industry and will fit in applications where others will not.
- **PLC Control:** The Mini-Aquatherm RMC Premium¹ features color touch screen control, solid state relays, pressure transducers, phase detection, seal saver auto cool stop, intelligent air purge, deviation warnings, recipes, KPI trending, remote start/stop and communications across Modbus TCP/Ethernet, OPC-UA, SPI and RS-485.
- **Long Life Heaters:** Incoloy sheathed heater elements for the best combination of performance and longevity with better corrosion resistance than copper or stainless steel heaters.
- **Adaptive Maximum Set Point:** Let your cooling water supply pressure determine the unit's maximum setpoint up to 250°F (121°C).
- **Phase Detection¹:** Know immediately if your incoming power is phased correctly. Monitor incoming 3-phase electrical power for problems (reverse phase rotation, missing phase, low leg, etc).
- **Warranty:** 3 year parts and labor.



Tight on space? The new Mini-Aquatherm RMC Series delivers the same precise temperature control as the Aquatherm RQT Series but in a compact footprint. At just over 14-inches tall, it is 22% smaller, making it ideal for applications where other units won't fit.

This single-zone unit provides precise temperature control for your process, heating or cooling water between 40°F and 250°F

(4°C and 121°C). Choose from two pump sizes (1/3 hp or 1/2 hp) and two heater sizes (3kW or 6kW) to match your specific needs.

For user-friendly navigation, the RMC Series uses the same control options as the RQT Series. Choose the standard control for a reliable and efficient experience or upgrade to the premium option with a 4-inch full-color touch screen with added visual alerts.

¹ Option available only on the Mini-Aquatherm RMC Premium.

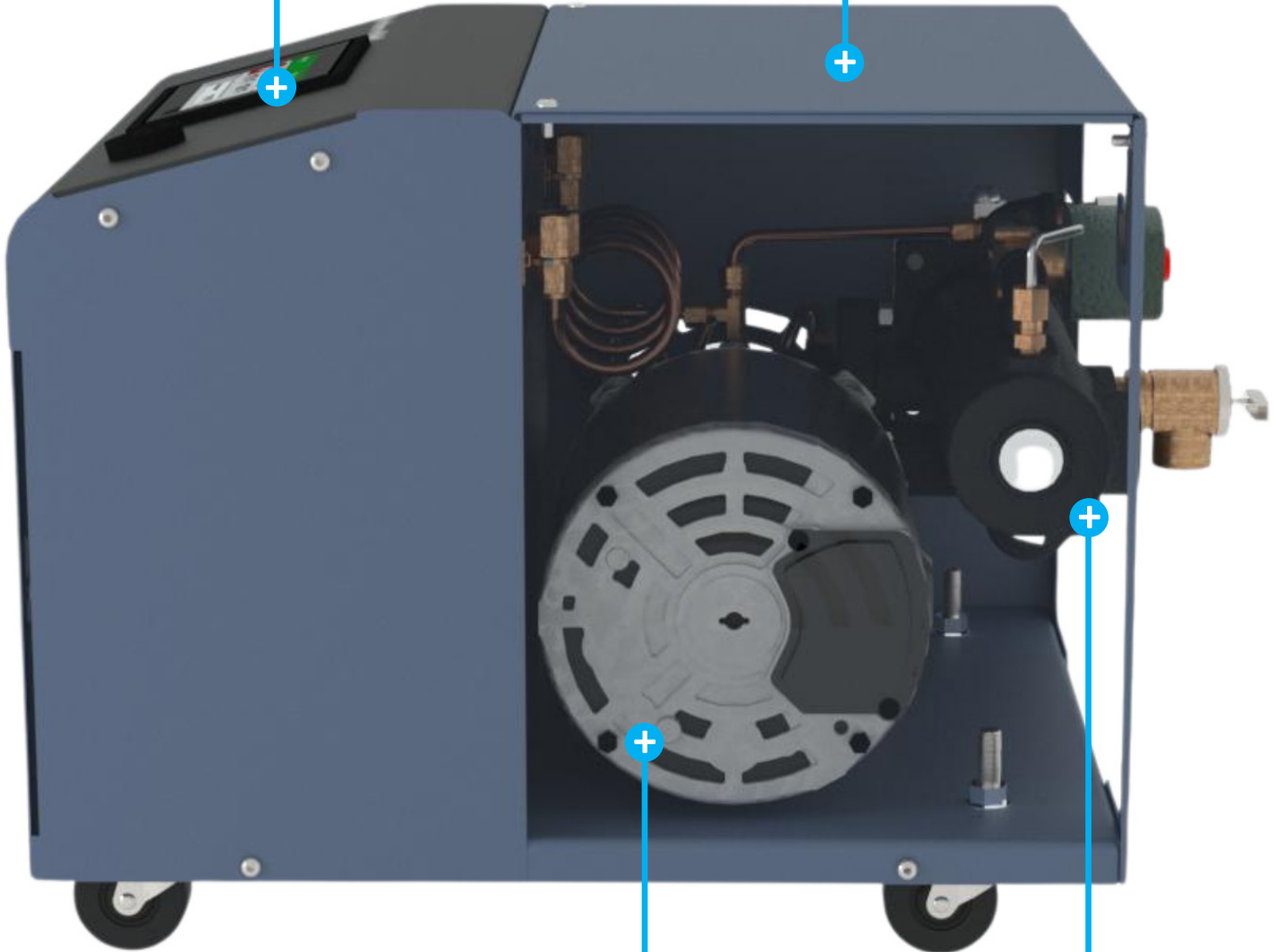
Benefits of the RMC Series Temperature Controller Features:

EASY-TO-USE CONTROL

Two control options available - both are easy to use and match the operation of the familiar RQT Series controls.

COMPACT, SPACE-SAVING

42% smaller, and 22% shorter than the RQT series. At under 15 inches tall, it fits easily in spaces other TCUs will not.



PROCESS COOLING AND HEATING

40°-250°F process heating and cooling, with 1/3 hp or 1/2 hp pumps and 3 kW or 6 kW heaters.

INCOLOY SHEATHED HEATER ELEMENTS

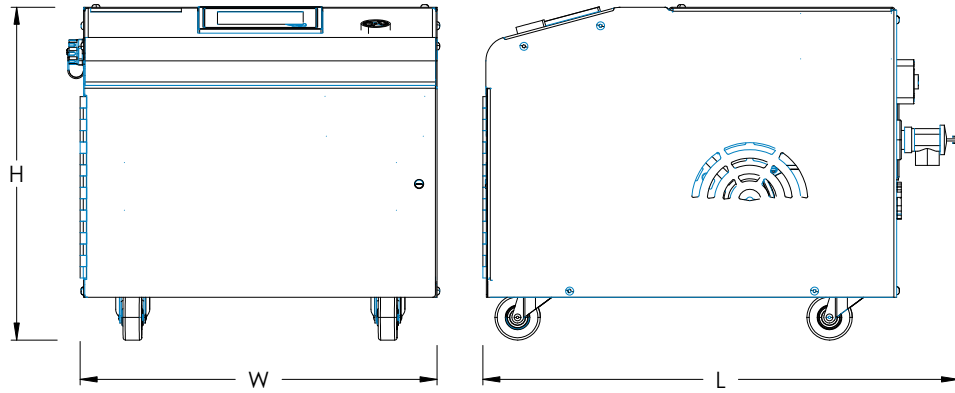
Provide the best combination of performance and longevity and are corrosion resistant.

Specifications

Description of Functions	Model	
	RMC Standard	RMC Premium
Direct Injection	●	●
Construction		
208-230V ¹ , 460V	●	●
Pump Range	1/3 HP & 1/2 HP (0.25 & 0.37 kW)	1/3 HP & 1/2 HP (0.25 & 0.37 kW)
Heater Range	3 kW & 6 kW	0 kW, 3 kW & 6 kW
Cast Heater / Pump	●	●
Incoloy Heaters	●	●
Heater Contactors	Electromechanical	Solid State Relays
Pressure Gauges	●	Pressure Transducers
Disconnect	N/A	○
250°F (121°C) Setpoint	●	●
UL 508A Panel	N/A	○
Controls		
Interface	LCD Screen	Touchscreen
PID Control	●	●
Setpoint and Actual Display	●	●
Choice of Control Points	N/A	●
Password	N/A	●
Phase Detection	N/A	●
Mold Purge	○	○
Seal Saver	N/A	●
Intelligent Air Pure	N/A	●
Auto-Restart	N/A	●
Deviation Alarm	●	●
Welded Contactor Detection	●	●
Recipes	N/A	●
Data Logs and Charting	N/A	●
Comms / External Interface		
Modbus TCP via Ethernet	N/A	●
OPC / UA	N/A	●
SPI via RS-485	N/A	●
Retransmit Process Temp (4-20mA)	N/A	●
Remote Start / Stop	N/A	●
Status / Alarm Lights		
Audible Alarm	N/A	●
Visual Alarm	N/A	○

Legend: Included = ● Optional = ○ Non Applicable = N/A

¹The 6kW is not available for 208-230V.



Technical Data

Model	Pump hp (kW)	Heater (kW)	Pump Capacity		Dimensions L x W x H inch (mm)	Ship Weight lbs (kg)
			GPM (l/min)	PSI (bar)		
RMC0303	1/3 (0.25)	3	10 (38)	15 (1.0)	18 x 16 x 15 (457 x 396 x 373)	130 (59)
RMC0305	1/2 (0.37)	3	25 (95)	13 (0.9)	18 x 16 x 15 (457 x 396 x 373)	130 (59)
RMC0603	1/3 (0.25)	6	10 (38)	15 (1.0)	18 x 16 x 15 (457 x 396 x 373)	130 (59)
RMC0605	1/2 (0.37)	6	25 (95)	13 (0.9)	18 x 16 x 15 (457 x 396 x 373)	130 (59)

Electrical Data

Model	Rated Voltage FLA @ 208	Rated Voltage FLA @ 230	Rated Voltage FLA @ 460	Rated Voltage FLA @ 575
RMC0303	5.2	5.2	5.2	N/A
RMC0305	5.5	5.5	5.5	N/A
RMC0603	N/A	N/A	9.7	N/A
RMC0605	N/A	N/A	10.0	N/A



Thermal Care is ISO 9001 Certified

Manufacturer reserves the right to change specification or design without notification or obligation.

