

# Mini-Aquatherm RMC Series

## Water Temperature Controller

### Benefits:

- **Familiar look as the Aquatherm RQT Series:** The Mini-Aquatherm RMC offers the same functionality in a compact footprint.
- **Compact, low profile:** Mini-Aquatherm RMC is 42% smaller than Aquatherm RQTs, it's also 22% shorter. At just over 14-inches tall, it is 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 Premium<sup>1</sup> 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 Detection<sup>1</sup>:** 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



The Mini-Aquatherm RMC units provide a reduced footprint and save energy. The new design maintains process temperature with circulated water that is heated or cooled to a desired setpoint, with new control technology. The RMC Series is 22% shorter and 42% smaller than standard RQT Series units. When space is a concern, the RMC Series is the answer. It is a direct injection, single zone unit that

can heat or cool water between 40°F and 250°F (4°C and 121°C) with available pump sizes in 1/3 and 1/2 horsepower. The two heater sizes of 3kW and 6kW can be selected with either pump size. Choose between the RMC Series Standard or Premium PLC control with a 4-inch full-color touch screen using the same control architecture as the RQT Series for simple and easy to use navigation.

<sup>1</sup> Option available only on the Mini-Aquatherm RMC-Premium.

## SPECIFICATIONS

Model	RMC Standard	RMC Premium
Direct Injection	●	●
<b>Construction</b>		
208-230V*, 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 and 6 kW	0 kW, 3 kW and 6 kW
Ferrous Cast Heater / Pump	●	●
Incoloy Heaters	●	●
Heater Contactors	Electromechanical	Solid State Relays
Pressure Gauges	●	Pressure Transducers
Disconnect	N/A	○
250°F Setpoint	●	●
UL 508A Panel	N/A	○
<b>Controls</b>		
Interface	LCD Screen	Touchscreen
PID Control	●	●
Setpoint & Actual Display	●	●
Choice of Control Points	●	●
Password	N/A	●
Phase Detection	N/A	●
Mold Purge	○	○
Seal Saver	N/A	●
Intelligent Air Pure	N/A	●
Auto-Restart	N/A	●
Deviation Alarm	●	●

Model	RMC Standard	RMC Premium
Welded Contactor Detection	●	●
Recipes	N/A	●
Data Logs & Charting	N/A	●
<b>Comms/External Interface</b>		
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	●
<b>Status / Alarm Lights</b>		
Audible Alarm	N/A	●
Visual Alarm	N/A	○

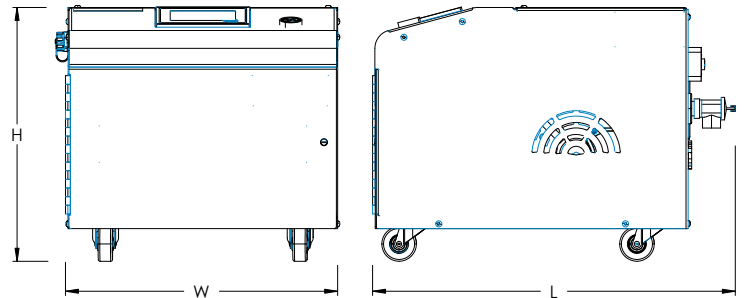
### Legend:

Included = ●

Optional = ○

Non Applicable = N/A

*\*6 kW is not available for 208-230V.*



## TECHNICAL DATA

Model	Pump hp (kW)	Heater (kW)	Pump Capacity		Full Load Amps (FLA) 460/3/60	Voltage	Dimensions L x W x H inch (mm)	Ship Weight lbs (kg)
			GPM (l/min)	PSI (bar)				
RMC0303	1/3 (0.37)	3	10 (38)	15 (1.0)	5.2	208/230/460	18 x 16 x 15 (457 x 396 x 373)	130 (59)
RMC0305	1/2 (0.25)	3	25 (95)	13 (0.9)	5.5	208/230/460	18 x 16 x 15 (457 x 396 x 373)	130 (59)
RMC0603	1/3 (0.37)	6	10 (38)	15 (1.0)	9.7	460	18 x 16 x 15 (457 x 396 x 373)	130 (59)
RMC0605	1/2 (0.25)	6	25 (95)	13 (0.9)	10.0	460	18 x 16 x 15 (457 x 396 x 373)	130 (59)



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RMC Specification 01