

Thermolator

TW, RQ - Series

TW Series



RQ Series

Options



Modulating Cooling Valve
The slow open/close cycle time eliminates thermal shock and water hammer from your process circuit.



Compressed Air Purge Valve
Quickly evacuates fluid from the process circuit, allowing for faster, cleaner disconnection of the temperature controller from molds and hoses.

The Thermolator® is designed to maintain the process temperature with circulated water that has been heated or cooled to the required set point.

All models offer incoloy heaters; silicon carbide pump seals; pressure gauges; easy-to-use microprocessor controls and tool-free access panels for fast removal. We offer options that include process line purge; a choice of temperature control points; auto start capability; Modbus communication; and remote-mounted operator panels.

Unique Features



Built-in pressure gauges standard for all Conair TW Series Thermolators.



Two-zone models allow independent control of dual cooling zones with the convenience of common cooling water manifolds and electrical connections (TW, RQ only).



Incoloy heaters
minimize chemical and high temperature damage.

Two-piece cast construction
eliminates potential leak points.

Motor drip cover
protects motor windings from moisture damage.

High efficiency pumps
from 3/4 to 10 Hp. Stainless steel pump impellers on 3/4 to 2 Hp pumps. Industry standard cast iron pump impellers on 3 Hp to 7.5 Hp models. Silicon carbide pump seals standard on all models.

Pump seal flush line
continuously cleans the pump seal for extended life.

Built-in sediment trap
settles contaminants away from the pump seals.

MODEL	TW CONTROL	RQ CONTROL
Direct Injection	●	●
Closed Circuit		○
Isolated Circuit		○
CONSTRUCTION		
Standard Pump Range	3/4 or 7.5 Hp	3/4 or 2 Hp
Standard Heater Range	9 to 48 kW	9 to 48 kW
Cast Heater / Pump	●	●
Heater Safety (Error)		●
Incoloy Heaters	●	●
Silicon Carbide Seal	●	●
Seal Flush Line	●	●
Pressure Gauges	●	●
Seal Saver Mode		●
CONTROLS		
PID Control	●	●
Setpoint / Actual Display	●	●
Password Protection		●
RS 485 / SPI Communication		○
Auto Start Capability		●
High Temperature Safety	○	○
Purge Valve Control	○	○
Phase Detection Circuit		●
Choice of Control Points		●
Remote-mount Control		○
Step Heating		○
STATUS / ALARM LIGHTS		
Panel-mounted Status Lights	3 small LED's	3 small LED's
Audible Alarm / Strobe Light	●	●

● = Standard
○ = Optional

TW CONTROL



RQ CONTROL



PID Control with autotune function

Auto Start works with external timers or switches for convenient pre-heating of molds

Purge On/Off button included on control

Phase detection indicates incorrect pump rotation or an open electrical leg

Control temperature based on temperature at process supply or return points, or an average of the two points

Technical Specifications

Model	3/4 HP	1 HP	2 HP	3 HP	5 HP	7.5 HP
Mould Temp. Regulator						
Circulating Medium	Water					
Maximum Temperature °C	121					
Heating Capacity KW	9 / 12 / 18 / 24 / 36 / 48					
Cooling Type	Direct Injection					
Circulation Pump						
Maximum Flow Rate LPM	165	190	212	240	290	418
Maximum Pressure Rise Additional to Cooling Water Pressure	1.4		1.72		3	3.4
Pump Drive KW	0.56	0.75	1.49	2.24	3.73	5.59
Minimum Operating Temperature	11 degree above cooling water inlet temperature					
Voltage / Connected Load KW						
Electrical Power Supply	415V, 50 Hz, 3 Phase					
Control Voltage	230V, 50 Hz, 1 Phase					
Total Connected Load KW **	9.56	9.75	10.49	11.24	12.73	14.59
Process Water Connections						
Inlet	R 1 1/2" BSP inside thread					
Outlet	R 1 1/2" BSP inside thread					
Cooling Tower Water Connections						
Inlet	R 1" BSP inside thread					
Outlet	R 1/4" BSP inside thread			R 1/2" BSP inside thread		
Main Dimensions						
W x D x H mm	360 x 825 x 750					
Shipping Weight	100		125		140	150
Color	Black RAL 9005 / Siemens Grey RAL 7032					

* We can also offer indirect cooling heat exchangers.

* 36 KW & 48 KW heating capacity will have high height frame.

** Considers 9 KW heater.

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