# **Thermolator**

TW, RQ - Series



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).





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



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

and hoses.



Two-piece cast construction eliminates potential leak points.

Motor drip cover

protects motor windings from moisture damage

High efficiency pumps

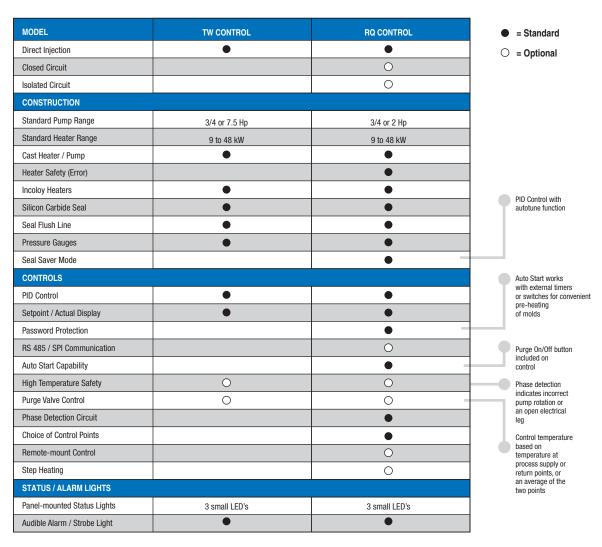
from 3/4 to 10 Hp. Stainless steel pump impellers on 3/4 to 2 Hp pumps. Industry standard cast iron pump impellers on 3 Hp to 7.5 Hp models. Silicon carbide pump seals standard on all models.

Pump seal flush line

continuously cleans the pump seal for extended life.

Built-in sediment trap

settles contaminants away from the pump seals.



#### TW CONTROL



#### **RQ CONTROL**



### **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		25	140	150	
Color	Black RAL 9005 / Siemens Grey RAL 7032					

<sup>\*</sup> We can also offer indirect cooling heat exchangers.

Joint Venture with The Conair Group, USA A World Leader in Plastic Auxiliary Equipment Manufacturing



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<sup>\* 36</sup> KW & 48 KW heating capacity will have high height frame.

<sup>\*\*</sup> Considers 9 KW heater.