

THERMOtech[®] ST

Pressurized Water Temperature Controller
9 / 48 kW Heating



High Temperature Tight Control

Technical Specifications for Mold Pressurized Water Temperature Controllers (120-160 °C)

Temperature Range:

Operating Temperature: 120 °C to 160 °C Set Point Accuracy: ± 1 °C

Heating Capacity: 9 / 48 kW,

Cooling Capacity: 48 kw

Fluid Type: Water.

Pressure Ratings:

Operating Pressure: Generally designed to operate at pressures up to 10 bar to ensure efficient heat transfer.

Pump Specifications:

Flow Rate: Ranges from 10 L/min to 100 L/min, depending on the system design.

Pump Type: High efficiency centrifugal pumps designed for continuous operation.

Control System:

Controller Type: Digital or programmable with PID control for precise temperature regulation.

Display: LCD or touchscreen interface for easy monitoring and adjustments.

User Interface: Features like set point adjustments, alarms, and operational status indicators.

Safety Features:

Overtemperature Protection: Automatic shutdown in case of overheating.

Pressure Relief Valve: To prevent over pressurization of the system.

Low Water Level Alarm: To alert operators of insufficient fluid levels.

Construction:

Material: Robust construction using steel or high grade thermoplastics to resist corrosion and wear.

Insulation: Proper insulation to minimize heat loss and improve efficiency.

Power Supply:

Voltage: Typically 3phase power supply (380-480V) with some models available for singlephase (220-240V).

Connections:

Inlet/Outlet Ports: Standardized connections for easy integration with molds and piping systems.

Quick Disconnect Fittings: For ease of maintenance and fluid changes.

Weight and Dimensions:

Varies based on capacity and design; typically compact for easy installation in production environments.

Operating Environment:

Designed for industrial conditions, capable of withstanding temperature and humidity variations.



Additional Features:

Data Logging:

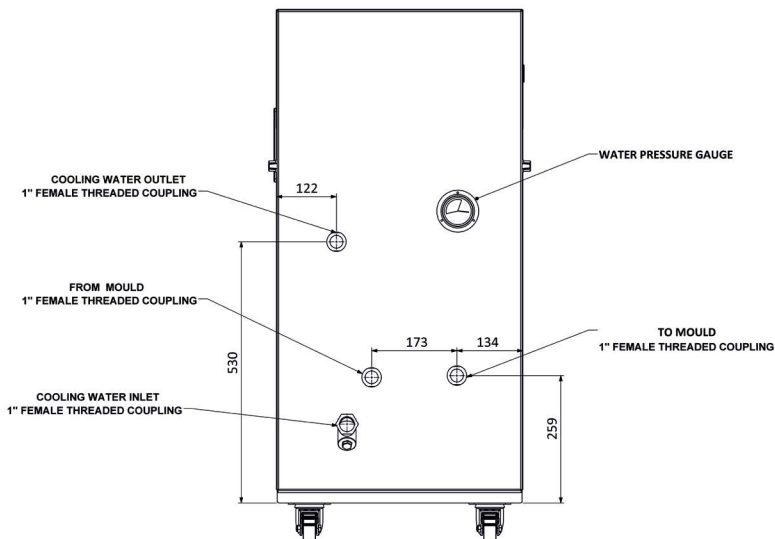
Capability to record temperature and pressure data for quality control and process optimization.

Remote Monitoring:

Options for remote access and control via Ethernet, WiFi, or other communication protocols.

Operating Environment:

Designed for industrial conditions, capable of withstanding temperature and humidity variations.



General Features

- Maximum water set temperature 160 °C
- 9 / 48 kW heating power
- 48 kW cooling power
- Pressurized tank
- Stainless steel water pump
- Stainless steel plate type heat exchanger
- PLC / touch pad display
- Optional flow–pressure monitoring
- Optional communication Via RS 485

