



## Precise Temperatures Sustainable Results

### Technical Specifications for High-Temperature Control Units (Up to 90 °C)

**Temperature Range:** Heating: 40 / 90 °C

**Temperature Control Accuracy:** -  $\pm 1$  °C

**Heating Capacity:** 6 / 9 / 12 kW

**Cooling Capacity:** 30 kW

**Fluid Type:** Uses water as the heat transfer medium, depending on the required temperature range and application.

**Pump Specifications:**

Flow Rate: Typically between 30 and 60 L/min

Pressure: Typical operating pressure between 2 and 3 bar

**Control System:** User-friendly interface with LCD display for temperature settings and monitoring. Remote monitoring capabilities via Ethernet, Wi-Fi, or RS-232/RS-485, OPC UA.

**Safety Features:** Overtemperature protection, Low fluid level alarms, Circuit protection (fuses, thermal overload)

**Construction:** Durable and corrosion-resistant materials, including steel and high-quality plastics. Compact design for easy integration into existing production setups.

**Power Supply:** Typically 3-phase power (380–480V), with single-phase options available.

**Connections:** Standardized fittings for easy connection to molds and other equipment. Inlet and outlet ports for heat transfer fluid.

### Connections:

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

Quick Couplings: Facilitate easy maintenance and fluid replacement. (Optional)

**Weight and Dimensions:** Vary depending on capacity and design; generally compact for easy installation in production environments.

**Operating Environment:** Designed to withstand industrial conditions, including fluctuations in temperature and humidity.

## Additional Features

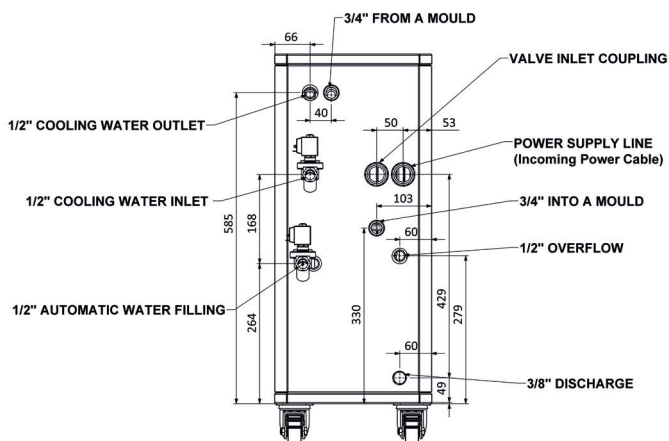
**Data Logging:** Capability to record temperature and pressure data for quality control and process optimization.

### Remote Monitoring:

Remote access and control via Ethernet, Wi-Fi, or other communication protocols.

## Applications

Injection molding, die casting, thermoforming, and other processes requiring high-temperature control.



Thermotech Uni mold temperature control units are used with indirect cooling across various industries particularly in injection molding processes to maintain the optimal mold temperature during production.

## General Features

- 6 / 9 / 12 kW heating capacity
- 90 °C maximum water temp set point
- +/- 0.5 °C PID temperature control
- 26 kW indirect cooling capacity
- Submersible water pump
- PLC / touch pad display
- Optional flow–pressure monitoring
- Optional communication Via RS 485

