



Designed to Perform. Built to Last.

# MINITHERM

Circulating Water Temperature Control System  
Up to 250°F (121°C)

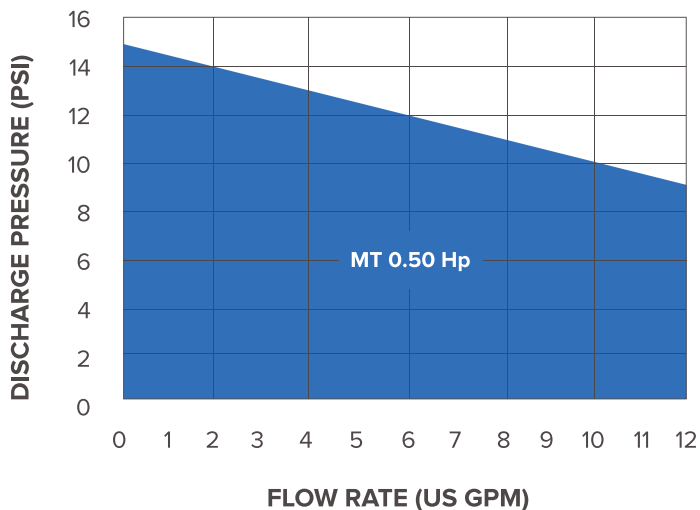


Mokon's Minitherm circulating water temperature control system maximizes performance with temperatures up to 250°F (121°C). The Minitherm's compact package fits into tight spaces and reduces floor space requirements. This system is ideal for small tonnage molding machine and lab applications.

| Model | Pump   | Flow Rate and Pressure | Heating Capacity (kW) | Total 3 Phase Amps |      | Process Connection | Supply/Drain Connection | Approximate Dimensions (L x W x H) | Shipping Weight (Approx. lbs.) |
|-------|--------|------------------------|-----------------------|--------------------|------|--------------------|-------------------------|------------------------------------|--------------------------------|
|       |        |                        |                       | 230V               | 460V |                    |                         |                                    |                                |
| MT    | 1/2 Hp | 9 GPM up to 15 PSI     | 2                     | 9                  | 6    | 1/2" NPT           | 1/2" NPT                | 18" x 13-1/2" x 15-1/4"            | 80                             |
|       |        |                        | 4                     | 16                 | 9    |                    |                         |                                    |                                |

Minitherm water systems are available in other kW capacities and voltages. Please contact Mokon for more information.

## Pump Curve



## Controls

A non-proprietary microprocessor-based controller provides dual LCD indication of your process fluid setpoint and actual temperature to ensure process control accuracy.

To help maintain process fluid setpoint accuracy while in the heating mode, the cooling valve will automatically open and close to allow hot fluid to exit the process loop and be replenished with cooler supply water as needed to satisfy the temperature setpoint.

A variety of options and accessories to meet specific customer needs are available.



## Standard Features

- Single zone configurations
- Compact, portable design
- Cast iron centrifugal pump with stainless steel impeller
- Horizontally mounted inline cast brass heating manifold with copper heating elements
- Small hold-up volume and energy-efficient heater design
- 1/16 DIN non-proprietary microprocessor-based controller in easily accessible panel
- Low pressure shut-off switch
- Fluid high temperature shut-off switch
- Pressure relief valve
- Solenoid cooling valve
- Automatic air purge
- Cast brass fluid connections securely mounted to cabinet
- Suction and discharge pressure gauges
- Removable panel for easy access to heater
- Heavy-duty removable casters for portability
- Power cord
- Powder-coated finish
- cULus 508A labeled electrical subpanel

## Product Testing and Warranty

All Mokon temperature control systems are qualified for service by rigid, simulated field tests, and are 100% factory calibrated and run tested. Mokon offers these extended warranties as standard on the Minitherm system:

- 3 years on system
- 5 years on microprocessor controller and safeties
- Lifetime seals, piping and manifold

Technical data shown is subject to change without notice. The company will endeavor to supply the equipment as illustrated but reserves the right to make dimensional and other design changes as required.

## Common Options and Accessories

- Alarms – audible and visual
- Control options – remote setpoint and re-transmission, communication ports
- Cool down/automatic shut off via time delay relay
- Emergency "crash" cooling control
- Heat remover design
- Other voltages, phases, frequencies
- Pressure regulator
- Process line fluid purge via air connection
- Remote start/stop and control panels
- Solid state contactors/relays and SCR
- Stacking racks
- UL, CSA, and CE certifications
- Valve process bypass

## Other Mokon Water Products

- Hydrotherm – 1/2 to 3 Hp, 3 to 24 kW, up to 250°F
- Duratherm – 3/4 to 7-1/2 Hp, 9 to 96 kW, up to 250°F
- Dual Zone Duratherm – Two zones of control, up to 250°F
- Duratherm HTP – 1-1/2 to 10 Hp, up to 300°F

Please contact Mokon for more information.



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