



Designed to Perform. Built to Last.

HYDROTHERM

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

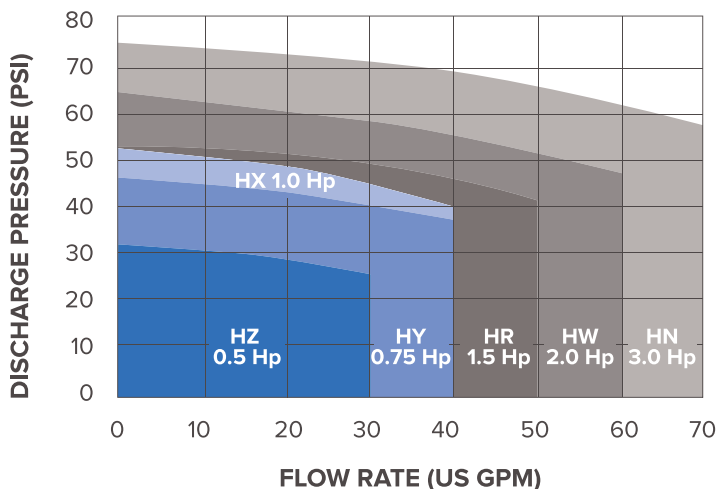


Mokon's Hydrotherm circulating water temperature control system maximizes performance with temperatures up to 250°F (121°C). The Hydrotherm has the highest quality components and construction materials in the industry by providing stainless steel as the main component for wetted surfaces.

Model	Pump	Flow Rate and Pressure	Approximate Dimensions (L x W x H) Based on Heating Capacity (kW)*						Process Connection	Supply/Drain Connection	
			3	6	9	12	18	24			
HZ	1/2 Hp	15 GPM @ 15 PSI	27" x 11" x 24"						27" x 16" x 25"	1.25" NPT	1/2" NPT
HY	3/4 Hp	25 GPM @ 26 PSI								1.25" NPT	1/2" NPT
HX	1 Hp	30 GPM @ 32 PSI								1.25" NPT	1/2" NPT
HR	1-1/2 Hp	40 GPM @ 32 PSI								1.25" NPT	1/2" NPT
HW	2 Hp	50 GPM @ 32 PSI								1.25" NPT	1/2" NPT
HN	3 Hp	60 GPM @ 34 PSI								1.25" NPT	1/2" NPT

*208 and 230 voltage rated 12 kW systems are built in a 16" wide cabinet. Multiple options may dictate a larger cabinet size. Hydrotherm systems are available in a variety of voltages and capacities. Please contact Mokon for more information.

Pump Curve

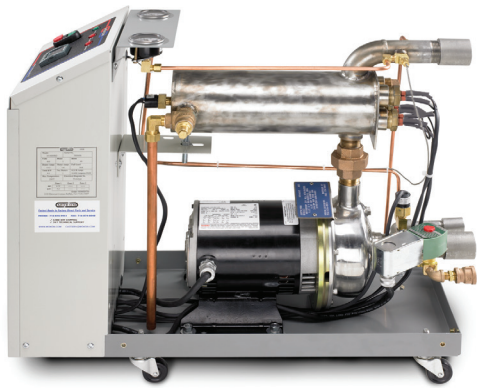


Controls

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
- Stainless steel pump, composite impeller and silicon-carbide seal
- Horizontal stainless steel heater canister with unique turbulent flow diverter
- 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
- Suction and discharge pressure gauges
- Removable panel for easy access to heater
- Heavy-duty removable casters for portability
- 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 Hydrotherm 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
- Closed loop circuitry
- Common supply and drain connections
- Control options – remote setpoint and re-transmission, communication ports
- Cool down/automatic shut off via time delay relay
- Cooling or chiller circuits
- Door disconnect switch
- Emergency "crash" cooling control
- Heat exchangers
- Heat remover design
- High/low heater operation (manual or automatic)
- Magnetic drive pumps
- Manifolds
- Modulating valves
- Other voltages, phases, frequencies
- Overhead piping kits
- Power cord
- Pressure regulator
- Process line fluid purge via air connection
- Redundant heater contactor
- Remote start/stop and control panels
- Solid state contactors/relays and SCR
- Stacking racks
- Stainless steel cabinets, fluid circuits and components
- TEFC motor
- UL, CSA, CE and EAC certifications
- Valve process bypass

E+ Energy Savings Package

- Insulated heater canister reduces heat loss by 60%
- 4-20mA PID control matches output to process demand
- SCR switching for faster response and extended heater life
- Forced ventilated cabinet extends electrical component life



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