MOKON®

Designed to Perform. Built to Last.

DURATHERM

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

Mokon's Duratherm circulating water temperature control system maximizes performance with temperatures up to 250°F (121°C). The Duratherm design features an advanced heating canister and stainless steel diverter, which create a forced flow path for higher heat transfer rates, providing unmatched control efficiency and accuracy.

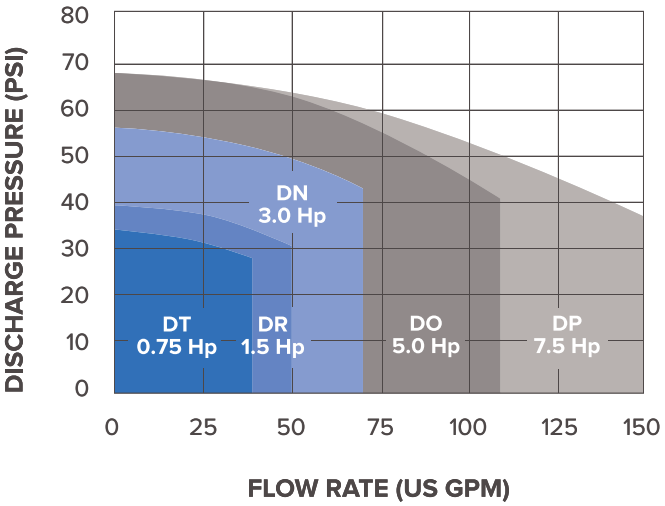
Model	Pump	Flow Rate and Pressure	Heating Capacity (kW)							Process Connection	Supply/Drain Connection	Approximate Dimensions (L x W x H)
			9	18	24	36	48	72	96			
			TOTAL AMPS*									
DT	3/4 Hp	25 GPM @ 25 PSI	13	24	32					1" NPT	1" NPT	32" x 17" x 28"
						47	62	92				33" x 17" x 52"
									122			37" x 25" x 39"
DR	1-1/2 Hp	40 GPM @ 32 PSI	14	25	33					1-1/2" NPT	1" NPT	32" x 17" x 28"
						48	63	93				33" x 17" x 52"
									123			37" x 25" x 39"
DN	3 Hp	60 GPM @ 34 PSI	16	27	35					1-1/2" NPT	1" NPT	32" x 17" x 28"
						50	65	95				33" x 17" x 52"
									125			37" x 25" x 39"
DO	5 Hp	80 GPM @ 38 PSI	18	29	37					1-1/2" NPT	1" NPT	32" x 17" x 28"
						52	67	97				33" x 17" x 52"
									127			37" x 25" x 39"
DP	7-1/2 Hp	100 GPM @ 40 PSI or 120 GPM @ 35 PSI	21	32	40					2" NPT	1" NPT	32" x 17" x 28"
						55	70	100				33" x 17" x 52"
									130			37" x 25" x 39"
Dual Zone Duratherm Specifications												
DZ	3/4 Hp	25 GPM @ 25 PSI	26	48	63					1" NPT	1" NPT	33" x 17" x 52"
DY	1-1/2 Hp	40 GPM @ 32 PSI	28	50	65					1-1/2" NPT	1" NPT	33" x 17" x 52"
DW	3 Hp	60 GPM @ 34 PSI	31	54	69					1-1/2" NPT	1" NPT	33" x 17" x 52"
DU	5 Hp	80 GPM @ 38 PSI	35	58	73					1-1/2" NPT	1" NPT	33" x 17" x 52"
DV	7-1/2 Hp	100 GPM @ 40 PSI or 120 GPM @ 35 PSI	41	64	79					2" NPT	1" NPT	33" x 17" x 52"

*To determine the full load amps when using other 3 phase, 60 hertz voltages, apply the following multipliers to the above 460 volt, 3 phase FLA: 208 volt, 3 phase – 2.3 multiplier, 230 volt, 3 phase – 2.00 multiplier, 575 volt, 3 phase – 0.805 multiplier. For single phase, other voltages, or frequencies, consult factory.

Standard Features

- Single and dual 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
- 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
- Powder-coated finish
- cULus 508A labeled electrical subpanel

Pump Curve



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
- Atmospheric and pressurized tanks
- 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 (standard on some models)
- Emergency "crash" cooling control
- Heat exchangers
- Heat remover design
- Magnetic drive pumps
- Manifolds
- Manual high/low heat selector switch (standard on some models)
- Modulating valves
- NEMA/Type 4, 4X, 7, 12 and X and Z purge designs
- Other voltages, phases, frequencies
- Overhead piping kits
- Power cord (standard on some models)
- 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

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 Duratherm system:

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

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