



D4 Series shown

## Max Temperature. Safe Performance.

Mokon's Duratherm MAX circulating water temperature control system maximizes performance with temperatures up to 380°F (193°C) and system pressures up to 300 PSI. The Duratherm MAX is designed to self generate the pressures required to produce high temperatures from typical city or plant water connections. In addition, this Duratherm design features a stainless steel heater vessel that is designed and tested to meet ASME standards.

The Duratherm MAX design utilizes stainless steel plumbing and either a sealless magnetic drive turbine pump fitted with a stainless steel impeller (D4 Series) or an end suction centrifugal pump (D3 Series). The number of threaded piping connections is reduced and welded connections are used where possible to ensure leak-free operation at higher pressures. Both the D3 and D4 Series designs utilize an inline heat exchanger to cool the process fluid. The D3 uses a fluid-to-fluid heat exchanger where the D4 Series design is provided with a unique fan-cooled heat exchanger that provides safe and dependable cooling at elevated temperatures.

All Duratherm systems come standard with a UL 508A (Underwriters Laboratories) labeled electrical sub-panel and meet NFPA 79 (National Fire Protection Association) electrical safety standards. Systems include motor, heater, and transformer fusing and wiring practices to ensure operator safety.



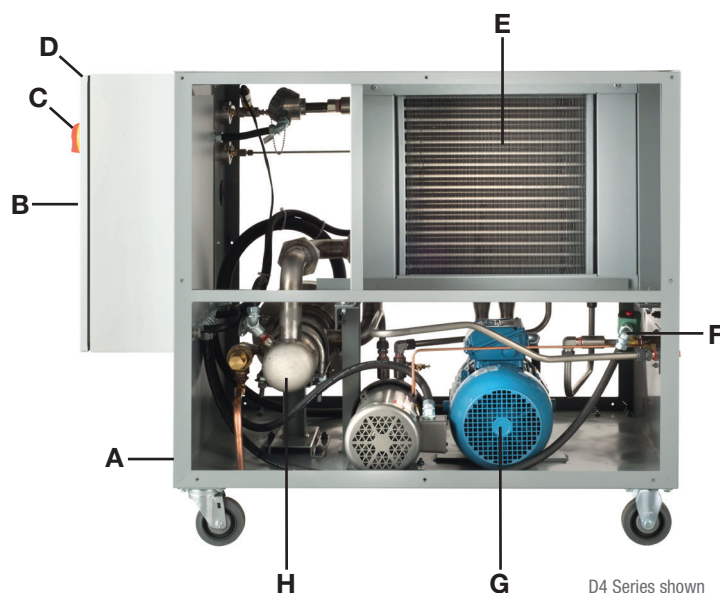
Designed to Perform. Built to Last.

### ***DURATHERM MAX***

*Circulating Water  
Temperature Control System  
Up to 380°F (193°C)  
and up to 300 PSI (20.7 BAR)*

- **Single-zone configurations**
- **Ideal for restrictive process and high-temperature water applications**
- **Stainless steel heater vessel designed and tested to ASME Code**
- **Small hold-up volume and energy-efficient heater design**
- **UL 508A labeled electrical subpanel**
- **Meets NFPA 79 electrical safety standards**

# Works Well Under Pressure



D4 Series shown

## Standard Features

- A** Epoxy powder-coated cabinetry
- B** Microprocessor-based controller mounted in easily accessible panel
- C** NEMA 12 electrical enclosure with safety door disconnect switch
- D** Suction and discharge pressure gauges
- E** Air-cooled heat exchanger for rapid cooling (D4 Series only)  
Fluid-to-fluid steel heat exchanger (D3 Series only)
- F** Solenoid cooling valve
- G** Stainless steel sealless magnetic drive turbine pump (D4 Series)  
Ductile iron centrifugal pump (D3 Series)
- H** Horizontal stainless steel heater vessel designed and tested to ASME Code

System standard with NFPA 79 and UL 508A labeled electrical sub-panel

## Specifications: D3 Series — Up to 330°F (166°C)\*

Model	Pump (Nominal)	Flow Rate & Pressure	Heating Capacity & Total Amps*					Connections		Cabinet Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
			9 kW	18 kW	24 kW	36 kW	48 kW	Process	Supply/Drain		
D3B	1-1/2 Hp	25 GPM @ 39 PSI	15	26	34	49	64	1" FNPT	1" FNPT	37" x 25" x 40"	375
D3C	2 Hp	40 GPM @ 43 PSI	16	27	35	50	65	1-1/2" FNPT	1" FNPT	37" x 25" x 40"	400
D3F	3 Hp	60 GPM @ 48 PSI	17	29	36	51	66	1-1/2" FNPT	1" FNPT	37" x 25" x 40"	425

\*340°F (171°C) available - please contact Mokon for more information

## Specifications: D4 Series — Up to 380°F (193°C)

Model	Pump (Nominal)	Flow Rate & Pressure		Heating Capacity & Total Amps*		Connections		Cabinet Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
		GPM @ 43 PSI	GPM @ 21 PSI	12 kW	24 kW	Process	Supply/Drain		
D4B	1-1/2 Hp	4	6	20	35	1" FNPT	1/2" FNPT	50" x 28" x 39"	650
D4C	2 Hp	8	12	21	36	1" FNPT	1/2" FNPT	50" x 28" x 39"	675
D4F	3 Hp	15	20	22	37	1" FNPT	1/2" FNPT	50" x 28" x 39"	700
D4E	5-1/2 Hp	27	34	26	41	1-1/2" FNPT	1/2" FNPT	50" x 28" x 39"	720

\*460 Volt, 3 Phase, 60 Hertz (for 230 Volt, double the listed amps)

Pumping capacities are based on 60 Hz electrical service

Duratherm systems are available in a variety of voltages and capacities. Please contact Mokon for more information

## Controls

A microprocessor-based controller provides dual LCD indication of your process fluid setpoint and actual temperature to ensure process control accuracy. Control options include serial communications, SPI protocol, brand name control or host interface capabilities.

## Options

Mokon offers a variety of options and accessories to meet specific customer needs. Please contact Mokon for more information.

## Product Testing & Warranty

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

- 1 year on system
- 3 years on microprocessor controller

For more information on Mokon's Duratherm MAX water systems or other products, call our sales department today.

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.



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