



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)



D4 Series shown

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 (20.7 BAR). The Duratherm MAX is ideal for restrictive process and high-temperature water applications.

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

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

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

Model	Pump (Nominal)	Flow Rate and Pressure		Heating Capacity (kW)		Process Connection	Supply/Drain Connection	Approximate Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
		GPM @ 43 PSI	GPM @ 21 PSI	12	24				
TOTAL AMPS*									
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.

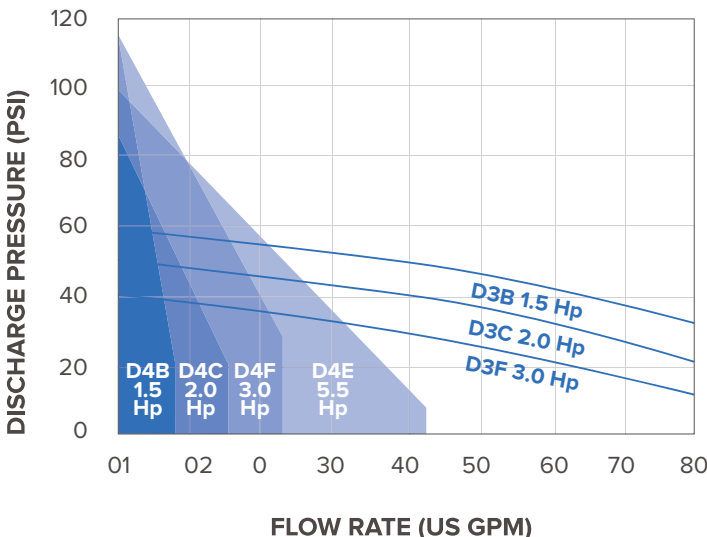


D4 Series shown

Standard Features

- Single zone configurations
- Stainless steel sealless magnetic drive turbine pump (D4 Series)
- Ductile iron centrifugal pump (D3 Series)
- Horizontal stainless steel heater vessel designed and tested to ASME Code
- Stainless steel piping and welded connections
- Welded joints to ASME BPVC Section IX
- 1/8 DIN non-proprietary microprocessor-based controller in easily accessible panel
- Fluid high temperature shut-off switch
- Pressure relief valve
- Air-cooled heat exchanger for rapid cooling (D4 Series)
- Fluid-to-fluid steel heat exchanger (D3 Series)
- Solenoid cooling valve
- Automatic air purge
- Solid state and redundant contractors (D4 Series)
- Suction and discharge pressure gauges
- Heavy-duty removable casters for portability
- Main power door disconnect
- 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
- 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
- D3 Series available up to 340°F (171°C)
- Emergency "crash" cooling control
- Heat exchangers
- Heat remover design
- High/low heater operation (manual or automatic)
- Manifolds
- Modulating valves
- NEMA/Type 4, 4X, and 12
- Other heater capacities and ASME Code Stamped vessel
- Other voltages, phases, frequencies
- Overhead piping kits
- Pressure regulator
- Redundant heater contactor (D3 Series)
- Remote start/stop and control panels
- Solid state contactors/relays and SCR (D3 Series)
- Stainless steel cabinets and components
- TEFC motor
- UL and CSA 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 MAX system:

- 1 year on system
- 3 years on microprocessor controller



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