



We Heat, Cool, Control and Never Wear Out

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.

The Duratherm is built with nonferrous and stainless steel materials of construction, which provide unsurpassed corrosion resistance. The number of piping connections has been reduced to ensure leak-free operation and the compact design makes it easy to move the Duratherm wherever it is needed most.

Multiple sizes and configurations of the Duratherm are available, including single and dual zone control, pumping capacities up to 10 hp and heating capacities that range from 9 to 96 kW. Mokon offers a wide range of controls, from microprocessor-based to custom designed control packages.

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



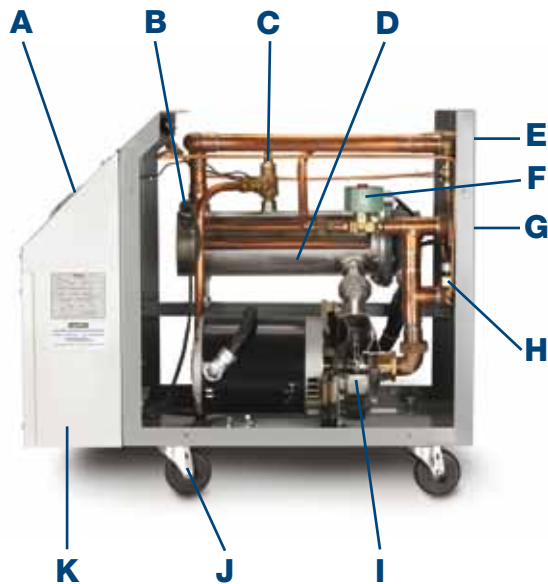
Designed to Perform. Built to Last.

DURATHERM

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

- ▶ **Single and dual zone configurations**
- ▶ **Compact and portable**
- ▶ **Horizontal stainless steel canister**
- ▶ **Small hold-up volume and energy-efficient heater design**
- ▶ **Stainless steel pump with silicon-carbide seal**
- ▶ **Microprocessor-based controller**
- ▶ **Control panel with indicating lights for mode of operation**
- ▶ **UL 508A labeled electrical sub-panel**
- ▶ **Meets NFPA 79 electrical safety standards**

It's What's Inside That Counts



Standard Features

- A** Microprocessor-based controller in easily accessible panel
 - B** High temperature safety shut-off switch
 - C** Pressure relief valve
 - D** Horizontal stainless steel heater canister with unique turbulent flow diverter
 - E** Cast brass fluid connections securely mounted to cabinet
 - F** Solenoid cooling valve
 - G** Removable panel for easy access to heater element (not shown)
 - H** Low pressure safety shut-off switch
 - I** Stainless steel pump with silicon-carbide seal
 - J** Heavy-duty removable casters for fixed location or portability
 - K** Epoxy powder-coated cabinetry
- System standard with NFPA 79 and UL 508A labeled electrical sub-panel

Specifications

Model	Pump	Flow Rate & Pressure	Heating Capacity							Process Connection	Supply/Drain Connection	Cabinet Dimensions L x W x H
			9 kW	18 kW	24 kW	36 kW	48 kW	72 kW	96 kW			
			Total Amps*									
DT	3/4 hp	25 GPM @ 25 PSI	13	24						1" NPT	1" NPT	28" x 16" x 25"
					32							32" x 17" x 27.5"
						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						1-1/2" NPT	1" NPT	28" x 16" x 25"
					33							32" x 17" x 27.5"
						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 27.5"
						50	65	95				33" x 17" x 52"
									125			37" x 25" x 39"
												32" x 17" x 27.5"
DO	5 hp	80 GPM @ 38 PSI	18	29	37					1-1/2" NPT	1" NPT	33" x 17" x 52"
						52	67	97				37" x 25" x 39"
									127			32" x 17" x 27.5"
												33" x 17" x 52"
DP	7-1/2 hp	100 GPM @ 40 PSI	21	32	40					2" NPT	1" NPT	37" x 25" x 39"
						55	70	100				32" x 17" x 27.5"
									130			33" x 17" x 52"
												37" x 25" x 39"
DQ	10 hp	120 GPM @ 35 PSI	24	35	43					2" NPT	1" NPT	38" x 17" x 28"
						58	73	103				39" x 17" x 52"
									133			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	41	64	79					2" NPT	1" NPT	33" x 17" x 52"
DX	10 hp	120 GPM @ 35 PSI	47	70	85					2" NPT	1" NPT	39" 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.

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.



2150 Elmwood Avenue, Buffalo, New York 14207
 Phone: 716-876-9951 ■ Fax: 716-874-8048
 www.mokon.com ■ E-mail: sales@mokon.com



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