

# HTF 500 SERIES

Heat Transfer Fluid System  
Up to 500°F (260°C)



Mokon's HTF 500 Series heat transfer fluid system maximizes performance with temperatures from 125°F to 500°F (52°C to 260°C). The HTF 500 Series features Mokon's unique heating philosophy and cool oil reservoir design, offering the safest and most efficient means of cooling available.

Model	Horsepower, Flow Rate & Pressure	# of Zones	Heating Capacity kW per Zone (Total kW)	Total Amps <sup>1</sup> @ 460/3/60	Cooling Heat Exchanger	Connections		Reservoir Volume (Gallons)	Approximate Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
						Process (FNPT)	Water (FNPT)			
H4	1 Hp, 10 GPM up to 60 PSI	1	6	9.4	3.6 sq. ft.	3/4"	1"	18	41" x 15" x 51"	378
		1	12	17.0	3.6 sq. ft.	3/4"	1"	18	41" x 15" x 51"	406
		1	18	24.5	3.6 sq. ft.	3/4"	1"	18	41" x 15" x 62"	456
		1	24	32.0	3.6 sq. ft.	3/4"	1"	18	41" x 15" x 62"	484
		1	30	39.5	3.6 sq. ft.	3/4"	1"	38	41" x 30" x 51"	628
		1	36	47.1	3.6 sq. ft.	3/4"	1"	38	41" x 30" x 51"	656
		2	6 (12)	18.8	3.6 sq. ft.	3/4"	1"	38	41" x 30" x 51"	674
		2	12 (24)	34.0	3.6 sq. ft.	3/4"	1"	38	41" x 30" x 51"	730
		2	18 (36)	49.0	3.6 sq. ft.	3/4"	1"	38	41" x 30" x 62"	822
		2	24 (48)	64.0	3.6 sq. ft.	3/4"	1"	38	41" x 30" x 62"	878
		3	6 (18)	28.2	3.6 sq. ft.	3/4"	1"	58	41" x 45" x 51"	970
		3	12 (36)	51.0	3.6 sq. ft.	3/4"	1"	58	41" x 45" x 51"	1,054
		3	18 (54)	73.5	3.6 sq. ft.	3/4"	1"	58	41" x 45" x 62"	1,188
		3	24 (72)	96.0	3.6 sq. ft.	3/4"	1"	58	41" x 45" x 62"	1,272
H5	2 Hp, 20 GPM up to 100 PSI	1	6	10.9	3.6 sq. ft.	1"	1"	18	41" x 15" x 51"	432
		1	12	18.5	3.6 sq. ft.	1"	1"	18	41" x 15" x 51"	460
		1	18	26.0	3.6 sq. ft.	1"	1"	18	41" x 15" x 62"	510
		1	24	33.5	3.6 sq. ft.	1"	1"	18	41" x 15" x 62"	538
		1	30	41.0	3.6 sq. ft.	1"	1"	38	41" x 30" x 51"	682
		1	36	48.6	3.6 sq. ft.	1"	1"	38	41" x 30" x 51"	710
		1	48	63.6	3.6 sq. ft.	1"	1"	38	41" x 30" x 62"	802
		2	6 (12)	21.8	3.6 sq. ft.	1"	1"	38	41" x 30" x 51"	782
		2	12 (24)	37.0	3.6 sq. ft.	1"	1"	38	41" x 30" x 51"	838
		2	18 (36)	52.0	3.6 sq. ft.	1"	1"	38	41" x 30" x 62"	930
		2	24 (48)	67.0	3.6 sq. ft.	1"	1"	38	41" x 30" x 62"	986
		2	30 (60)	82.0	3.6 sq. ft.	1"	1"	58	41" x 45" x 62"	1,216
		2	36 (72)	98.1	3.6 sq. ft.	1"	1"	58	41" x 45" x 62"	1,272
		2	48 (96)	128.2	3.6 sq. ft.	1"	1"	58	41" x 45" x 74"	1,456
		3	6 (18)	32.7	3.6 sq. ft.	1"	1"	58	41" x 45" x 51"	1,216
		3	12 (36)	55.5	3.6 sq. ft.	1"	1"	58	41" x 45" x 51"	1,300
		3	18 (54)	78.0	3.6 sq. ft.	1"	1"	58	41" x 45" x 62"	1,434
		3	24 (72)	101.4	3.6 sq. ft.	1"	1"	58	41" x 45" x 62"	1,518

1. To calculate FLA for other voltages, multiply the above amperages by: 2.21 for 208 volt; 2.00 for 230 volt; and 0.80 for 575 volt



## Standard Features

- Single, dual or triple zone configurations
- Sleek vertical design
- Positive displacement pump
- TEFC (IP54 Rating) motor that meets/exceeds NEMA Premium Efficiency levels
- Energy efficient insulated heater manifold with steel heating elements
- Cool oil reservoir design, utilizing a continuous flow heat exchanger for increased cooling efficiency which eliminates thermal shock and provides trim cooling
- 1/16 DIN non-proprietary microprocessor-based controller in easily accessible panel
- Low pressure safety shut-off switch
- Fluid high temperature safety shut-off switch
- Automatic air purge
- NEMA/Type 1 electrical enclosure
- Glycerin-filled pressure gauge
- Process and cooling water connections
- Main power safety door disconnect switch
- Redundant heater contactor
- Y type strainer (shipped loose)
- Heavy-duty ball bearing casters for portability
- Powder-coated carbon steel cabinet
- cULus 508A labeled electrical subpanel

## Common Options and Accessories

- Alarms - audible and visual
- Control options - remote setpoint and re-transmission, communication ports
- Cool down/automatic shut off via time delay relay
- Cooling only designs
- Emergency "crash" cooling control
- Emergency stop
- Heat exchanger flow control
- High/low heat switch for 12 kW units and higher
- High temperature rated hoses
- Increased cooling and heating capacities
- Inline heat exchangers
- Magnetic drive pumps
- NEMA/Type 4, 4X, 7, and 12
- Nitrogen purge
- Other voltages, phases, frequencies
- Overhead piping kit
- Phase monitor
- Process fluid purge via air connection or switch
- Remote start/stop and control panels
- Solid state contactors/relays and SCR
- Stainless steel cabinets, fluid circuits and components
- Strainers (additional)
- Tank low level indication and system shutdown
- Thermocouple with selector switch
- Thermometers
- Timers
- UL, CSA, CE and EAC certifications
- Valved process bypass via metering globe

## 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 a 1 year warranty on system and 5 years on standard microprocessor controller.

## Controls

A non-proprietary microprocessor-based controller provides dual LCD indication of your process fluid setpoint and actual temperature to ensure process control accuracy. A variety of options and accessories to meet specific customer needs are available.



**Designed to Perform. Built to Last.**

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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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