



Designed to Perform. Built to last.

# HTF 400 SERIES

Heat Transfer Fluid System  
Up to 400°F (204°C)



Mokon's HTF 400 Series heat transfer fluid system maximizes performance with temperatures from 125°F to 400°F (52°C to 204°C). The small footprint and design of this system are ideal for process applications where space is limited and continuous temperature control is required.

Model	Horsepower, Flow Rate & Pressure	# of Zones	Heating Capacity (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)			
H2	1/3 Hp, 5 GPM up to 60 PSI	1	3	4.6	1.4 sq. ft.	1/2"	1/2"	4.7	32" x 17" x 27"	173
		1	6	8.3	1.4 sq. ft.	1/2"	1/2"	4.7	32" x 17" x 27"	178
		1	12	15.9	1.4 sq. ft.	1/2"	1/2"	4.7	32" x 17" x 27"	250
		1	18	23.4	3.8 sq. ft.	1/2"	1/2"	4.7	33" x 17" x 52"	375
		1	24	31	3.8 sq. ft.	1/2"	1/2"	4.7	33" x 17" x 52"	390
H3	3/4 Hp, 10 GPM up to 60 PSI	1	6	8.9	1.4 sq. ft.	1/2"	1/2"	4.7	32" x 17" x 27"	225
		1	9	12.7	1.4 sq. ft.	1/2"	1/2"	4.7	32" x 17" x 27"	253
		1	12	16.7	1.4 sq. ft.	1/2"	1/2"	4.7	32" x 17" x 27"	325
		1	18	24.2	3.8 sq. ft.	1/2"	1/2"	4.7	33" x 17" x 52"	450
		1	24	31.7	3.8 sq. ft.	1/2"	1/2"	4.7	33" x 17" x 52"	465

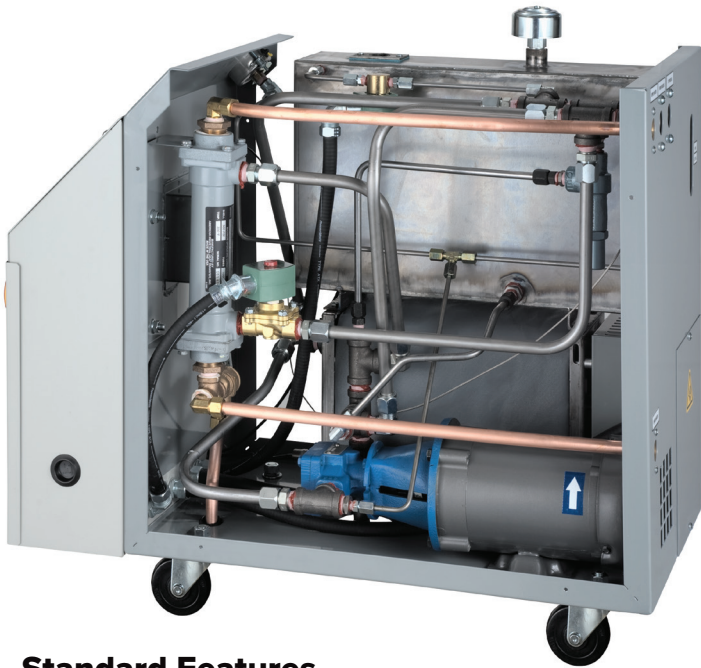
1. To calculate FLA for other voltages, multiply the above amperages by: 2.21 for 208 volt; 2.00 for 230 volt; and 0.80 for 575 volt

## 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.



## Standard Features

- Single zone configurations
- Heating and cooling design standard
- Compact, portable design
- High efficiency gear pump
- TEFC (IP54 Rating) motor that meets/exceeds NEMA Premium Efficiency levels
- Energy efficient insulated heater manifold with steel heating elements
- 1/16 DIN non-proprietary microprocessor-based controller in easily accessible panel
- By-pass cooling design with heat exchanger and expansion/fill tank
- Low pressure shut-off switch
- Fluid high temperature shut-off switch
- Automatic air purge
- Shell and tube heat exchanger
- NEMA/Type 1 electrical enclosure
- Discharge pressure gauge
- Process and cooling water connections
- Sight glass
- 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

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
- 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
- Heating only designs
- High temperature rated hoses
- Increased cooling and heating capacities
- Magnetic drive pumps
- NEMA/Type 4, 4X, 7, and 12
- Nitrogen purge
- Other voltages, phases, frequencies
- Overhead piping kits
- Phase monitor
- Process fluid purge via air connection
- Remote start/stop and control panels
- Solid state contactors/relays and SCR
- Stainless steel cabinets, fluid circuits and components
- 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



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