



Designed to Perform. Built to Last.

HTF HF-2 SERIES

Heat Transfer Fluid System
Up to 600°F (315°C)

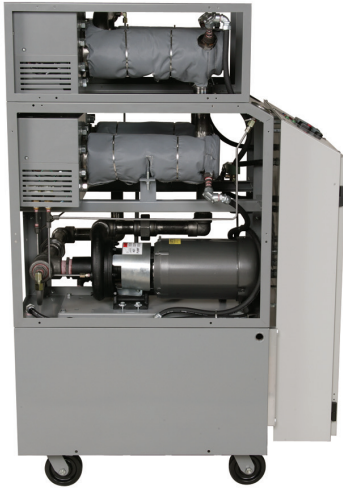


Mokon's HTF HF-2 Series heat transfer fluid system maximizes performance with temperatures from 125°F to 600°F (52°C to 315°C), for large flow and higher heating capacity applications.

| Model | 3 Hp 40 GPM to 51 PSI | 5 Hp 60 GPM to 56 PSI | # of Zones | Heating Capacity kW per Zone (Total kW) | Cooling Heat Exchanger | Reservoir Volume (Gallons) | Approximate Dimensions (L x W x H) | Shipping Weight (Approx. lbs.) |
|-------|---------------------------------------|-----------------------------|---------------|--|------------------------------|----------------------------------|--|--------------------------------------|
| | Total Amps ¹ @ 460/3/60 | | | | | | | |
| HF | 18.9 | 21.1 | 1 | 12 | 7.0 sq. ft. | 38 | 41" x 30" x 51" | 620 |
| | 33.9 | 36.1 | 1 | 24 | 7.0 sq. ft. | 38 | 41" x 30" x 51" | 670 |
| | 49.0 | 51.2 | 1 | 36 | 7.0 sq. ft. | 38 | 41" x 30" x 51" | 730 |
| | 64.0 | 66.2 | 1 | 48 | 7.0 sq. ft. | 38 | 41" x 30" x 62" | 825 |
| | 79.2 | 81.4 | 1 | 60 | 7.0 sq. ft. | 38 | 41" x 30" x 62" | 950 |
| | 94.2 | 96.4 | 1 | 72 | 7.0 sq. ft. | 38 | 41" x 30" x 74" | 1,050 |
| | 124.4 | 126.6 | 1 | 96 | 14.0 sq. ft. | 58 | 41" x 45" x 62" | 1,300 |
| HF | 37.7 | 42.1 | 2 | 12 (24) | 14.0 sq. ft. | 38 | 41" x 30" x 51" | 875 |
| | 67.8 | 72.2 | 2 | 24 (48) | 14.0 sq. ft. | 78 | 41" x 60" x 51" | 1,020 |
| | 98.0 | 102.4 | 2 | 36 (72) | 14.0 sq. ft. | 78 | 41" x 60" x 51" | 1,250 |
| | 128.2 | 132.6 | 2 | 48 (96) | 14.0 sq. ft. | 78 | 41" x 60" x 62" | 1,600 |

| Model | 5 Hp 90 GPM to 52 PSI | 5 Hp 120 GPM to 48 PSI | # of Zones | Heating Capacity kW per Zone (Total kW) | Cooling Heat Exchanger | Reservoir Volume (Gallons) | Approximate Dimensions (L x W x H) | Shipping Weight (Approx. lbs.) |
|-------|---------------------------------------|------------------------------|---------------|--|------------------------------|----------------------------------|--|--------------------------------------|
| | Total Amps ¹ @ 460/3/60 | | | | | | | |
| HF | 23.8 | | 1 | 12 | 21.0 sq. ft. | 38 | 41" x 30" x 51" | 750 |
| | 38.9 | | 1 | 24 | 21.0 sq. ft. | 38 | 41" x 30" x 51" | 800 |
| | 53.9 | | 1 | 36 | 21.0 sq. ft. | 38 | 41" x 30" x 64" | 875 |
| | 69.0 | | 1 | 48 | 21.0 sq. ft. | 38 | 41" x 30" x 64" | 950 |
| | 84.1 | | 1 | 60 | 21.0 sq. ft. | 38 | 41" x 30" x 78" | 1,025 |
| | 99.2 | | 1 | 72 | 21.0 sq. ft. | 38 | 41" x 30" x 78" | 1,200 |
| | 129.3 | | 1 | 96 | 21.0 sq. ft. | 58 | 41" x 45" x 78" | 1,450 |
| | 144.4 | | 1 | 108 | 21.0 sq. ft. | 58 | 41" x 45" x 78" | 1,525 |
| | 159.5 | | 1 | 120 | 21.0 sq. ft. | 78 | 41" x 60" x 78" | 1,675 |
| | 174.6 | | 1 | 132 | 21.0 sq. ft. | 78 | 41" x 60" x 78" | 1,750 |
| HF | 189.7 | | 1 | 144 | 21.0 sq. ft. | 78 | 41" x 60" x 78" | 1,825 |
| | 46.5 | | 2 | 12(24) | 21.0 sq. ft. | 38 | 41" x 30" x 51" | 800 |
| | 76.7 | | 2 | 24(48) | 21.0 sq. ft. | 78 | 41" x 60" x 64" | 1,150 |
| | 106.7 | | 2 | 36(72) | 21.0 sq. ft. | 78 | 41" x 60" x 64" | 1,400 |
| | 134.1 | | 2 | 48(96) | 21.0 sq. ft. | 78 | 41" x 60" x 64" | 1,475 |
| | 171.5 | | 2 | 60(120) | 21.0 sq. ft. | 78 | 41" x 60" x 78" | 1,550 |
| | 197.3 | | 2 | 72(144) | 21.0 sq. ft. | 78 | 41" x 60" x 78" | 1,625 |

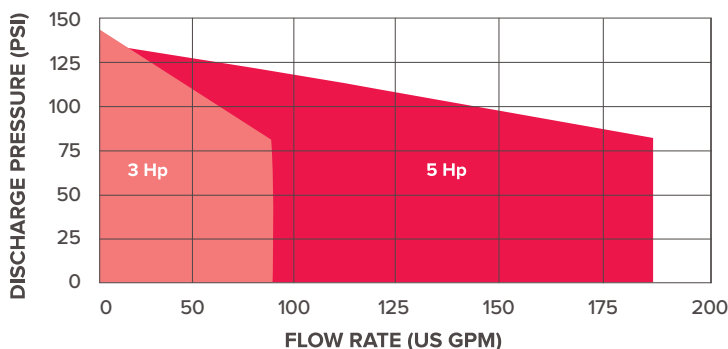
1. To calculate FLA for other voltages, multiply the above amperages by: 2.21 for 208 volt; 2.00 for 230 volt; and 0.80 for 575 volt
Connections: 40 and 60 GPM: 1-1/2" process, 1" water; 90 GPM: 2" process, 1-1/2" water; 120 GPM: 2-1/2" process, 1-1/2" water



Standard Features

- Single or dual zone configurations
- Centrifugal pump
- TEFC (IP54 Rating) motor that meets/exceeds NEMA Premium Efficiency levels
- Energy efficient insulated heater manifold with stainless 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
- Welded construction to minimize threaded connections
- 1/16 DIN non-proprietary microprocessor-based controller in easily accessible panel
- Low pressure shut-off switch
- Fluid high temperature shut-off switch
- Automatic air purge
- NEMA/Type 1 electrical enclosure
- Discharge pressure gauge
- Process and cooling water connections
- Low fluid level shut off
- 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

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
- 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
- Fluid temperature ranges up to 650°F
- 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.



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