



HTF ST SERIES

Heat Transfer Fluid System
Up to 700°F (371°C)



Mokon's HTF ST Series heat transfer fluid system maximizes performance with temperatures from 125°F to 700°F (52°C to 371°C). The ST Series is a stationary system providing greater performance with higher flow and heating capacities. Mokon oil systems offer many advantages when using heat transfer fluids over steam including cost savings, lower operating pressures, greater energy efficiency, and safer operation.

Steam Pressure vs. Heat Transfer Fluids

Saturated Steam Pressure PSIA*	Saturated Steam Pressure Bar	Temperature F° (C°)	Mokon Oil System Pressure
250	17	400 (205)	Typically less than 60 PSIA (4 Bar)
500	34	467 (242)	Typically less than 60 PSIA (4 Bar)
750	52	511 (266)	Typically less than 60 PSIA (4 Bar)
1,000	69	545 (285)	Typically less than 60 PSIA (4 Bar)
1,500	103	596 (313)	Typically less than 60 PSIA (4 Bar)
2,000	138	636 (335)	Typically less than 60 PSIA (4 Bar)
2,500	172	668 (353)	Typically less than 60 PSIA (4 Bar)
3,078	213	700 (371)	Typically less than 60 PSIA (4 Bar)

*Note the high steam pressures required whenever high process temperatures are specified.



Vertical three zone system

Standard Features

- Single and multi-zone configurations
- Heating capacities up to 600 kW (2,047,200 BTU/Hr)
- Up to 120 GPM pumping capacities
- Low-watt density electric heating mounted on a structural steel frame
- All-welded construction
- Expansion tank
- Cooling circuits available
- Water or air-cooled high temperature heavy-duty pumps
- Digital PID electronic indicating control with solid state relays
- Completely pre-wired
- Y type strainer (shipped loose)
- NEMA/Type 12 rated electrical enclosure
- cULus 508A labeled electrical subpanel

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.

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
- ASME Code stamped pressure vessel
- 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 (manual and automatic)
- Heating only designs
- High temperature rated hoses
- Increased cooling and heating capacities
- Inline heat exchangers
- Magnetic drive pumps
- NEMA/Type 4, 4X, and 7
- 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

Controls

A non-proprietary microprocessor-based controller provides dual LCD indication of your process fluid setpoint and actual temperature with PID type control capabilities 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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