



Stationary, Continuous High Temperature Control

Mokon's stationary heat transfer fluid systems offer high performance, energy efficiency, and reduced space requirements for higher heating capacity applications up to 600 kW. The ST Series is offered to match your process requirements and provide accurate temperature control up to 700°F (371°C).

The ST Series features low-watt density electric heating mounted on a structural steel frame. This heater design, along with an all-welded construction, reduces internal piping which limits potential leak points, and results in reduced frame size and floor space required. Systems are available in single and multiple zone configurations, with pumping capacities up to 120 GPM, and come completely pre-wired.

Mokon provides the highest level of protection in the industry, with several integrated safety features to protect the operator and the system during operation. Mokon ST Series heat transfer fluid systems can be designed and built to ASME standards and are designed to meet and exceed NFPA 79 (National Fire Protection Association) electrical safety standards and feature UL (Underwriters Laboratories) approved electrical panels.



Designed to Perform. Built to Last.

HTFSystem
ST Series

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

- Thermal fluid designs up to 700°F (371°C)
- Heating capacities up to 600 kW (2,047,200 Btu/Hr.)
- Cooling circuits available
- Water or air-cooled high temperature heavy-duty pumps
- Digital PID electronic indicating control with solid state relays
- NEMA rated electrical enclosure, UL 508A panel approval
- Expansion tank
- ASME Code Stamped designs available

Continuous Temperature Control

Specifications – HTF System ST Series (up to 700°F / 371°C)

kW	BTU/hr.
100	341,200
125	426,500
150	511,800
200	682,400
250	853,000
300	1,023,600
350	1,194,200
400	1,364,800
450	1,535,400
500	1,706,000
600	2,047,200

ST systems are available in a variety of voltages; please contact Mokon for more information.

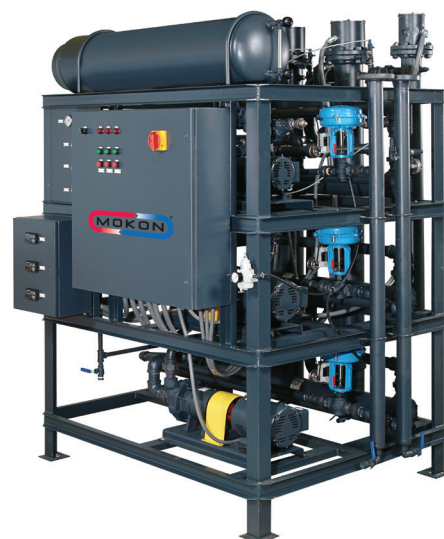
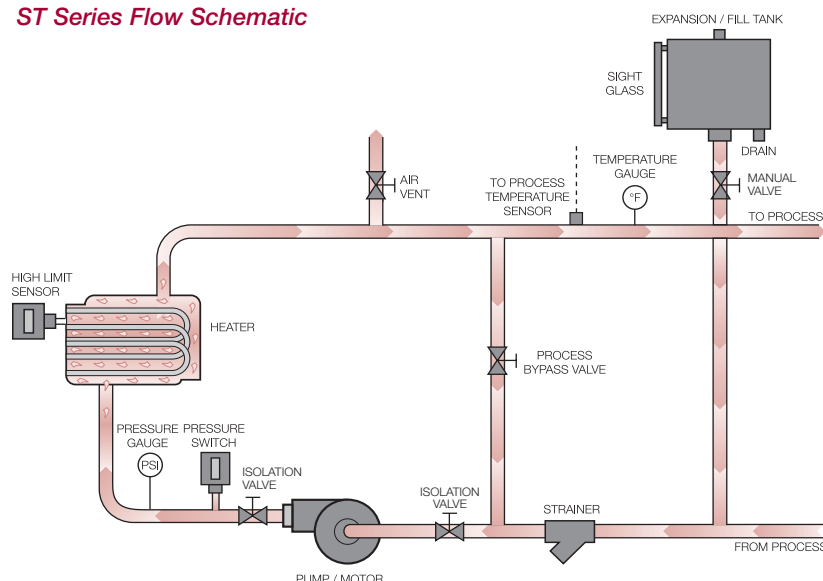
Steam Pressure vs. Heat Transfer Fluids

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.

Saturated Steam Pressure		Temperature °F (°C)	Mokon Oil System Pressure
PSIA*	Bar		
250	17	401 (205)	Typically less than 60 PSIA (4 Bar)
500	34	467 (242)	
750	52	511 (266)	
1000	69	545 (285)	
1500	103	596 (313)	
2000	138	636 (335)	
2500	172	668 (353)	
3078	213	700 (371)	

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

ST Series Flow Schematic



Vertical three zone system

Controls

A 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. Control options include serial communications, SPI protocol, brand name control, or host interface capabilities.

For more information on Mokon's ST Series or other products, call our sales department today.

Options

Mokon offers a variety of options and accessories to meet specific customer needs. Please contact Mokon for more information.

Product Testing & 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 one-year warranty as standard.

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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