



High Temp. Oil Heater

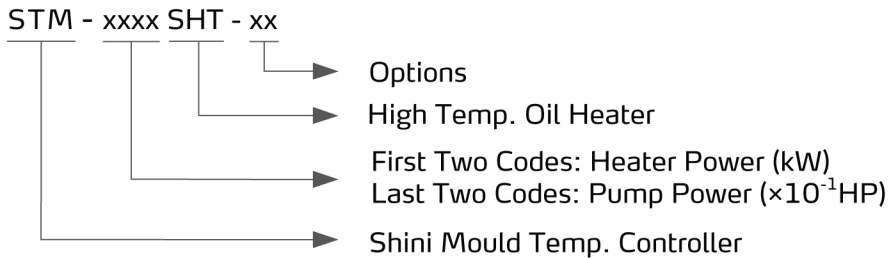
STM-2440SHT



Refer carefully to this manual before operation.

STM-SHT Series

■ Coding Principle



Control Panel

■ Features

- The maximum working temperature can reach up to 350°C/662°F, and the control accuracy can reach $\pm 0.5^{\circ}\text{C}/\pm 0.9^{\circ}\text{F}$.
- P.I.D controller with 4.3" LCD with a intuitive and user-friendly interface.
- In-build weekly timer with °C/°F unit conversion.
- Adopt P.I.D multi-stage temperature control system and SSR solid-state relay heating output.
- The magnetic-driven pump with stainless steel inside for high-pressure, explosion-proof, and no seal leakage.
- Isolated electric cabinet to extend the service life of internal electrical appliances.
- Multiple safety devices, including power reverse phase protection, pump overload protection, overheat protection, and low-level protection, can automatically detect abnormally and indicate via an alarm.
- Stainless steel pipe heater.
- RS485 communication interface that can achieve centralized monitoring online.
- Equipped with USB interface for real-time data recording and local data backup
- With alarm buzzer.

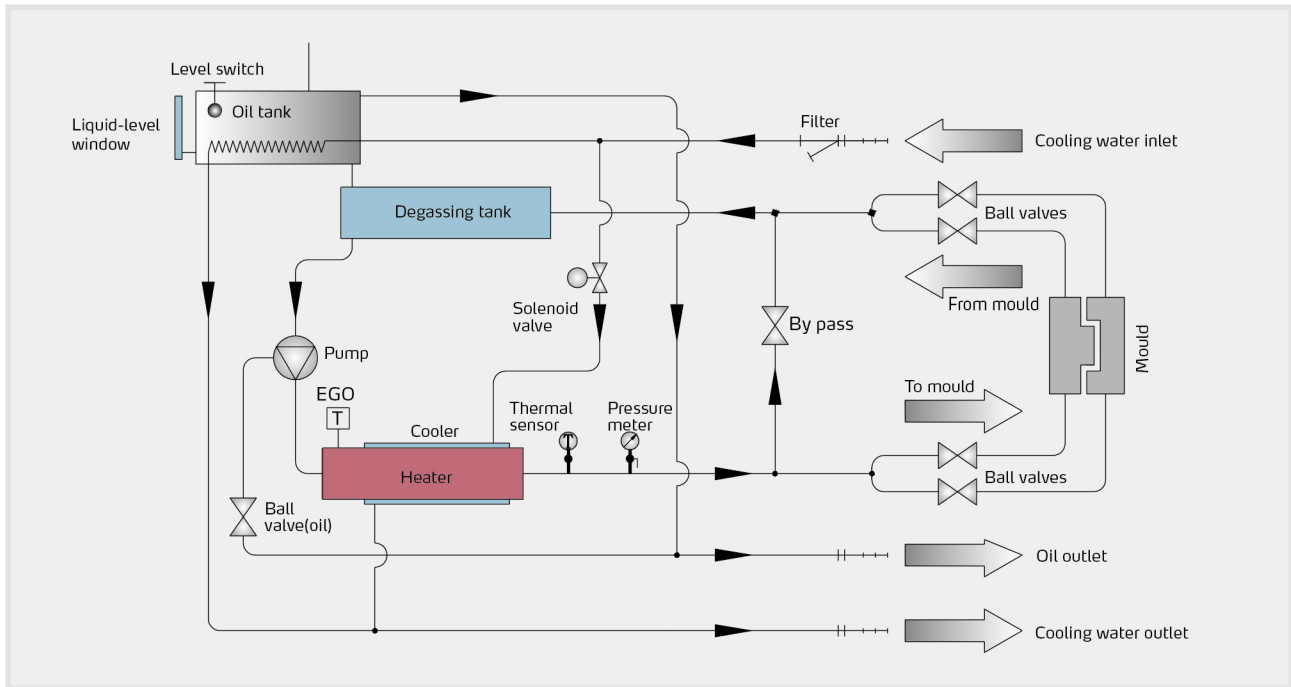
■ Options

- For models optional with mould temperature and mould return oil temperature display, and add "TS" at the end of the model code.
- For models optional with magnetic filter to prolong the service life the magnetic pump, and add "MF" at the end of the model code.

■ Application

STM-SHT series high-temperature water heaters are mainly used for mould heating and mould temperature maintenance. This series of machines use heat transfer oil as the medium to avoid rust within the mould. The oil heater is applicable in high mould temperature application and reduction in mould maintenance; Besides, there are many options and accessories for this series of machines that can meet different production demands. Besides, it applies to fields with other similar needs.

Working Principle

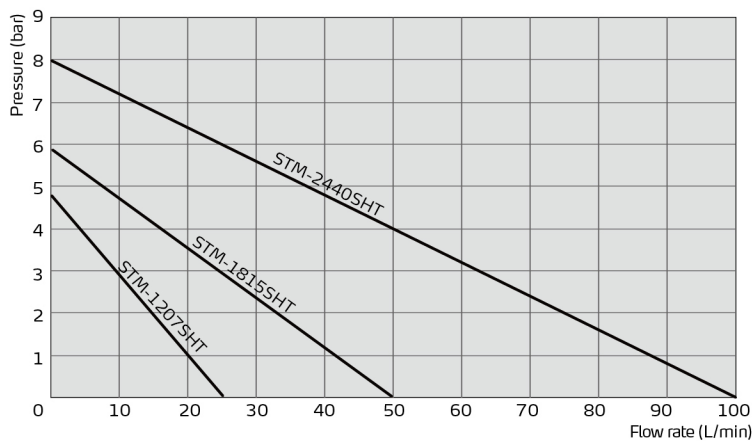


Specifications

Model	Max. Temp.	Pipe Heater (kW)	Pump Power (kW)	Max. pump Flow (L/min)	Max. pump Pressure (bar)	Heating Tank Number	Capacity (L)		Cooling Method	Inlet/Outlet (inch)	Dimensions (mm) (H x W x D)	Weight (kg)
							Main	Sub.				
STM-1207SHT	350°C	12	0.55	25.5	4.8	1	6	7	Indirect	3/4 / 3/4	710×390×1020	94
STM-1815SHT	350°C	18	1	50	5.8	2	9	12	Indirect	1 / 1	940×430×1050	132
STM-2440SHT	350°C	24	2.8	100	8	2	9	15	Indirect	1/1	1000×500×1150	187

- Notes: 1) To ensure stable water temperature, cooling water pressure should not be less than 2kgf/cm², but also no more than 5kgf/cm².
 2) Pump testing standard: Power of 50/60Hz, purified water at 20°C/68°F. (There is ±10% tolerance for either max. flowrate or max. pressure).
 3) Power supply: 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

Pump Performance



Reference formula of Mould Controllers model selection

Heater Power (kW) = mould weight (kg) × mould specific heat (kcal/kg°C) × temperature difference between mould and environment (°C) × safety coefficient / heating duration(h) / 860

Notes: safety coefficient range 1.3~1.5.

Flow Rate (L/min) = heater power (kW) × 860 / [heating medium specific (kcal/kg°C) × heating medium density (kg/L) × in/outlet temperature difference (°C) × time (60Min)]

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