



High Temp. Water Heater

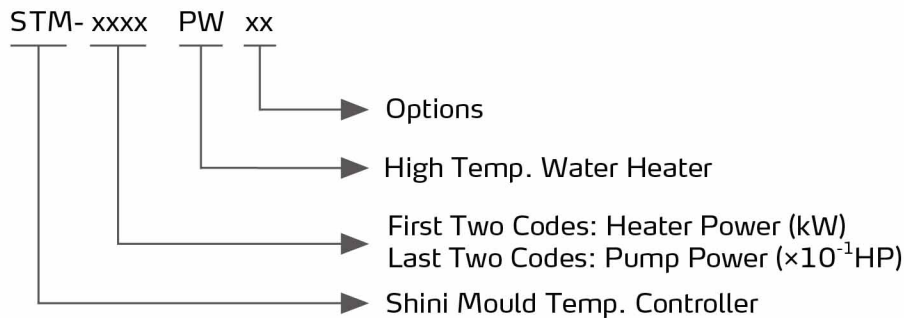
STM-607PW



Refer carefully to this manual before operation.

STM-PW Series

■ Coding Principle



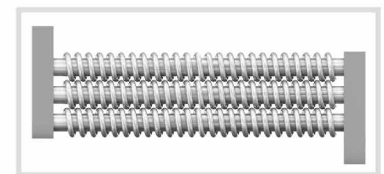
Control Panel

■ Features

- For standard STM-PW, the maximum heating temperature is 180°C/356°F.
- 4.3" Touch screen controller with easy to use HMI and clean display.
- Adopt SSR solid-state relay controller.
- Adopt non-contact heaters to reduce the water scale in the heater to improve the machine's service life. (Exclude STM-2440PW)
- Adopt plate heat exchanger for direct cooling and accurate temperature control, and the low water viscosity makes quick heat exchange.
- P.I.D. controller with a user-friendly interface. The multi-stage controller can maintain stable mould temperature with a precision of $\pm 0.5^{\circ}\text{C}$.
- In build weekly timer with $^{\circ}\text{C}/^{\circ}\text{F}$. unit conversion.
- Multiple safety devices including power reverse phase protection, pump overload protection, overheat protection and low level protection that can automatically detect abnormal performance and indicate this via visible alarm.
- Built-in magnetic pump without seal.
- RS485 communication interface achieves centralized monitoring with the host.
- With flow reference value display
- Equipped with water level probe and high-pressure plunger pump that could accurately detect the water level, and refill during high-pressure as to avoid empty water system.

■ Options

- For models optional with magnetic filter to prolong the service life the magnetic pump, and add "MF" at the end of the model code.
- For models optional with mold temperature and mold return water temperature display, and add "TS" at the end of the model code.
- For models optional with air-blowing function, add "A" at the end of the model code.
- For models optional with the circuit breaker, add "CB" at the end of the model code.



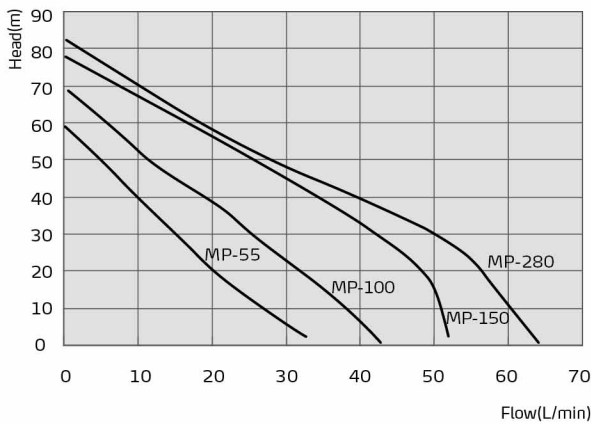
Non-contact heater

■ Application

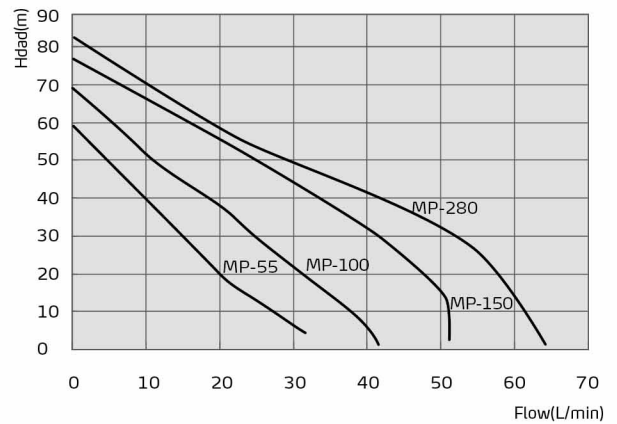
STM-PW series high temp. water heaters are mainly used for mold heating and mold temperature maintaining. Besides, it is also applicable to fields with other similar demands.

Compared with the STM-W water heater, this series is able to meet wider production demands under higher heating temperature (180°C) condition. Besides, there are many options and accessories for this series of machine that can meet different production demands.

■ Performance Curve

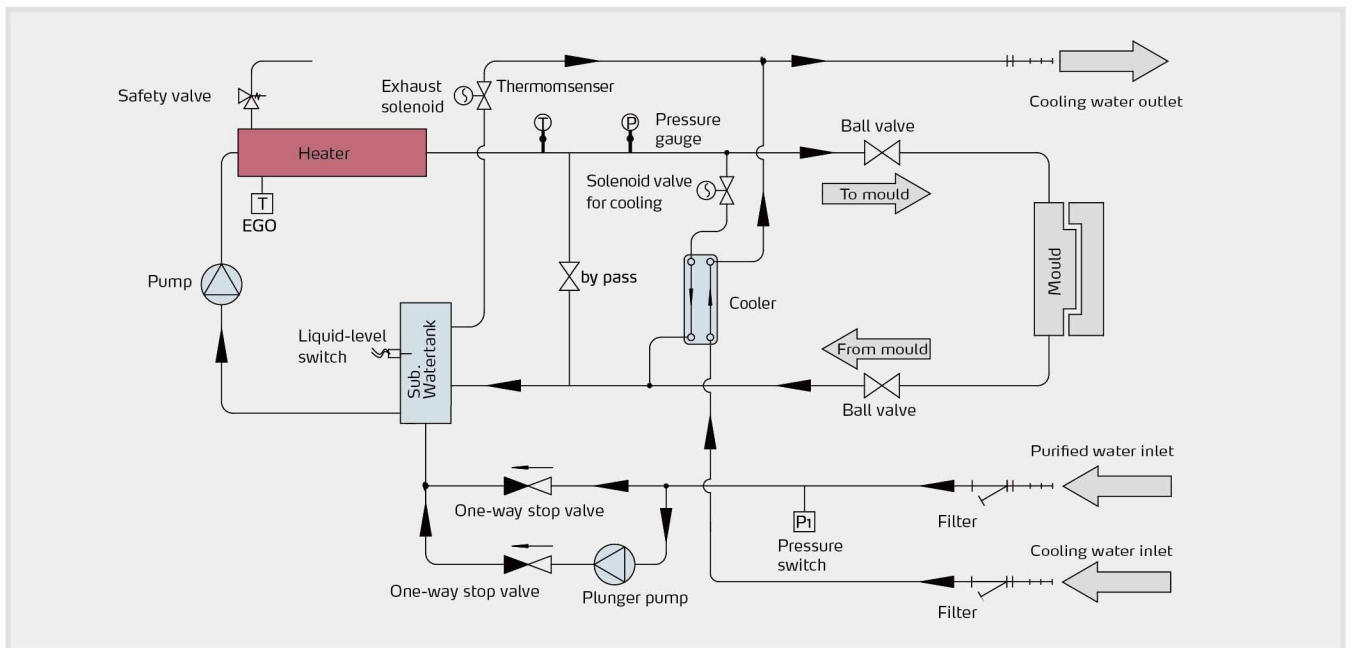


50Hz-cycles/2800r/min-rpm-tr/min



60Hz-cycles/3400r/min-rpm-tr/min

■ Working Principle



STM-PW System flow chart

STM-PW Series

Specifications

Model		STM-607PW	STM-910PW	STM-1220PW	STM-2440PW
Max.Temp.		180 ⁰ C/356 ⁰ F			
Heater(kW)		6	9	12	24
Pump Power(kW) (50/60Hz)		0.6/0.69	1.05/1.2	1.5/1.7	2.9/3.4
Max. pump Flow (50/60Hz)	L/min	25.5/28	50/60	80/96	100/120
	gal/min	6.7/7.4	13.2/15.8	13.2/15.8	26.4/31.7
Max. pump Pressure(bar)(50/60Hz)		4.8/6.3	5.8/7.6	6.05/7.6	8/10.5
Heating Tank Number		1	1	1	2
Heating Tank Capacity	L	0.25	0.25	0.3	6.2
	gal	0.07	0.07	0.08	1.64
Sub. water tank Capacity	L	3	3	3	3
	gal	0.79	0.79	0.79	0.79
CoolingMethod		Indirect			
Inlet/Outlet (inch)		3/4 / 3/4	3/4 / 3/4	3/4 / 3/4	1 / 1
Dimensions (H×W×D)	mm	690×320×910	690×320×930	690×320×1038	950×450×1050
	inch	27.2×12.5×35.8	27.2×12.5×36.6	27.2×12.5×40.9	37.4×17.7×41.3
Weight	kg	72	73	101	140
	lb	159	161	223	309

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.

We reserve the right to change specifications without prior notice.

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