STM-WF Series

SHINI plastics technologies

"Large Flow" Water Heaters

STM - WF series " Large Flow " water heaters are used to heat up the mould and maintain temperature, although they can be used in other similar applications. High temperature water from the mould is returned to the cooling tank and cooled by direct cooling. It is then pressurized by the high - pressure pump, sent to the heating tank and finally to the mould with a constant temperature. The OMRON temperature controller can maintain an accuracy of ± 1°C.

STM-607WF

Features

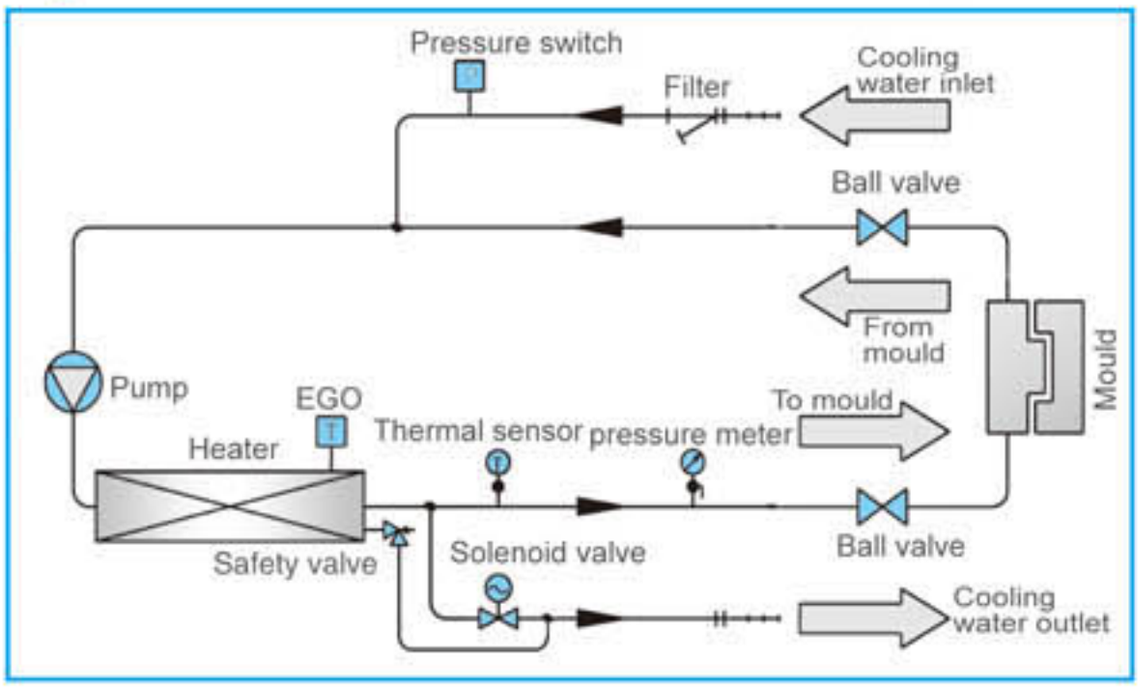
- P.I.D. multi - stage temperature control system can maintain a mould temperature with accuracy of ± 1°C.
- Multiple safety devices can automatically detect abnormal performance and indicate this via visible alarm.
- Adopt domestic made pump, featuring high pressure and stable performance.
- With stable performance and accuracy within ± 1℃, for standard STM - WF, the heating temperature can reach 120 °C.
- Accurate temperature control achieved by direct cooling and quick heat transfer by automatic water supply facility.
- Inner parts made from stainless steel to ensure corrosion - free operation.
- Attractive appearance, easy to access and maintain.

STM-607WF Inner Structure

URS UKAS QUALITY MANAGEMENT 043-A

STM-WF Series

System Flow (direct cooling)



High temperature water returns to the machine and then be pressured by pump to the heaters. After being heated, water will be forced to mould and continue the circle. In the process, if the temperature is too high, the system will activate the solenoid valve to let cooling water cool down the temp. directly until the water is down to the system requirement. If the temp. keep increasing and reach to the set point of EGO, system will alarm and stop operation. The system will have low pressure alarm and stop working if cooling water pressure doesn't reach set point.

Applications

Mainly used for heating up and maintaining a constant mould temperature, or in other fields that require a constant flow of hot water.

Specifications

Model	Max. Temp.	Pipe Heater (kW)	Pump Power (kW,50/60Hz)	Max. pump Flow(L/min) (50/60Hz)	Max. pump Pressure (bar,50/60Hz)	Heating Tank Number	Main / Sub. Oil Tank (L)	Cooling Method	Mould Coupling * (inch)	Inlet/Outlet (inch)	Dimensions (mm) (H × W × D)	Weight (kg)
STM-607WF	120 °C	6	0.55 / 0.55	58 / 67	2.8 / 2.6	1	3.0	Direct	1" (1 × 2)	1" / 1"	635 × 280 × 640	60
STM-910WF		9	0.75 / 0.75	116 / 133	2.8 / 2.6	1	3.0		1" (1 × 2)	1" / 1"	635 × 280 × 640	85
STM-1220WF		12	1.1 / 1.5	168 / 216	2.9 / 2.7	1	3.2		1½" (1 × 2)	1½" / 1½"	800 × 312 × 875	85
STM-1830WF		18	1.5 / 2.2	182 / 216	3.6 / 4	2	6.6		1½" (1 × 2)	1½" / 1½"	800 × 312 × 875	90
STM-2450WF※		24	3 / 4	250 / 250	3.2 / 3.8	2	7.2		1½" (1 × 2)	1½" / 1½"	855 × 435 × 785	170
STM-3675WF※		36	5.5 / 5.5	416 / 416	3.6 / 3.5	3	10.0		1½" (1 × 2)	1½" / 1½"	955 × 465 × 850	210

Notes: 1) " ※ " Stands for vertical pump. " * " stands for options.

2) In order to maintain stable temp. of heat transfer media, cooling water pressure should be no less than 2 kg / cm^2 , but also no more than 5 kg / cm^2.

3) Pump testing standard : Power of 50 / 60Hz, purified water in 20 °C. (There is ± 10% tolerance for either max. flowrate or max.pressure).

4) Power supply: 3Φ, 230 / 400 / 460 / 575V, 50 / 60Hz.

Model Selection Guide

Mould Clamping Force (T)	Moulding Capacity (kg/hr)	Pump Flow (L/min)
Below 50	Below 6	20
50~100	6~12	50
100~200	12~25	
200~300	25~40	100
300~650	40~80	160
Above 650	Above 80	300

We reserve the right to change specifications without prior notice.

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