■ **Working Principle**

The high temperature water from the mould returns to pump and then flows to heaters after being pressurized. Then it will be heated and flow to the mould again. The process circulates like this. In this process, machine will stop and give an alarm when liquid level switch detects that the liquid level has dropped down to the set point. However, if the temperature of that water is too high, the system will activate the solenoid valve for cooling to let cooling water come into the system and cools down the water, thus constant temperature can be maintained. System will activate its over temperature alarm and stop working when that water temperature is still higher than EGO set point. Safety valve will be opened for pressure release when system pressure has reached set point of pressure switch. If the system pressure keeps beyond the set point of the safety valve, machine will sounds alarm and halts.
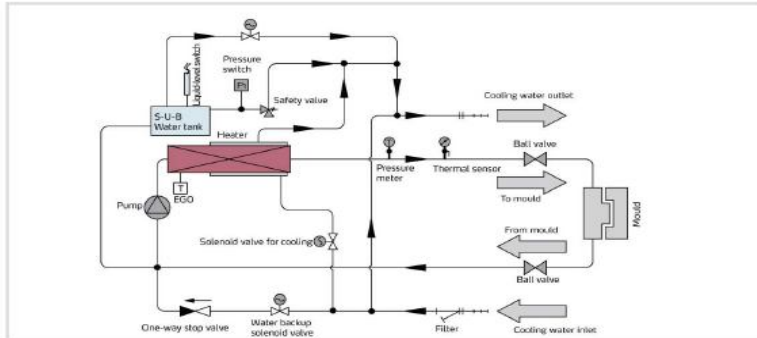
System Flow for STM-HPW (Indirect Cooling)

■ **Specifications**

Model	Max. Temp.	Heater (kw)	Pump (kw) (50/60Hz)	Max. pump Flow (L/min) (50/60Hz)	Max. pump Pressure (bar) (50/60Hz)	Heating Chamber Number	Tank (L) Heating	Tank (L) Cooling	Cooling Method	Mould Coupling* (inch)	Inlet/Outlet (inch)	Dimensions (mm) (H × W × D)	Weight (kg)
STM-607-HPW	180℃	6	0.55/0.63	25.5/28	12/15.8	1	3.4	1	Indirect	3/8 (2×2)	3/4 / 3/4	750×320×770	80
STM-913-HPW		9	1.0/1.2	50/60	12/15.8	1	3.4	1		3/8 (2×2)	3/4 / 3/4	750×320×770	85
STM-1213-HPW		12	1.0/1.2	50/60	12/15.8	1	3.4	1		1 (1×2)	3/4 / 3/4	750×320×810	95
STM-940-HPW		9	2.8	150	12	1	3.4	4.6		1 (1×2)	1 / 1	960×465×900	140

Notes: 1) "HPW" stands for water medium with high temp. and high pressure. "*" stands for options.
2) To ensure stable water temperature, cooling water pressure should not be less than 2kgf/cm², but also no more than 5kgf/cm².
3) Pump testing standard: Power of 50/60Hz, purified water at 20℃. (There is ±10% tolerance for either max. flowrate or max. pressure).
4) Power supply: 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.