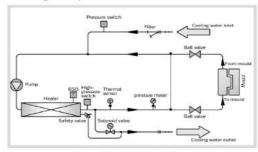
STM-WF Series

Working Principle



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 lower 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; when system pressure is too high (reach set value of high pressure switch, alarm would sounds and machine halts; if high pressure switch fails to frunction and system pressure continues to rise to reach set value of safety valve, safety valve would start up to release pressure; if cooling water pressure fails to reach setting, pressure switch would send a signal of water deficiency and system would launch low pressure alarm with machine halting.

Specifications

6 0				Number	TO STATE OF THE ST	Method	(inch)	Inlet/Outlet (inch)	(H × W × D)	(kg)
0 0	0.55/0.55	58/67	2.8/2.6	1	3.0	Direct	1 (1×2)	1/1	635×320×640	60
9 0	0.75/0.75	116/133	2.8/2.6	1	3.0		1 (1×2)	1/1	635×320×640	85
12	1.1/1.5	168/216	2.9/2.7	1	3.2		11/2 (1×2)	11/2 / 11/2	800×312×875	85
24	2.2/2.2	333/333	3.2/2.9	2	7.2		11/2 (1×2)	11/2 / 11/2	855×435×840	156
36	3.0/4.0	332/416	3.4 /4.3	3	12.0		11/2 (1×2)	11/2 / 11/2	955×465×1130	190
48	5.5/5.5	533/500	4.5/3.8	4	16.0		11/2 (1×2)	11/2 / 11/2	980×480×1300	242
	12 24 36 48	12 1.1/1.5 24 2.2/2.2 36 3.0/4.0 48 5.5/5.5	12 1.1/1.5 168/216 24 2.2/2.2 333/333 36 3.0/4.0 332/416 48 5.5/5.5 533/500	12 1.1/1.5 169/216 2.9/2.7 24 2.2/2.2 333/333 3.2/2.9 36 3.0/4.0 332/416 3.4/4.3	12 1.1/1.5 168/216 2.9/2.7 1 24 2.2/2.2 333/333 3.2/2.9 2 36 3.0/4.0 332/416 3.4/4.3 3 48 5.5/5.5 533/500 4.5/3.8 4	12 1.1/1.5 169/216 2.9/2.7 1 3.2 24 2.2/2.2 333/333 3.2/2.9 2 7.2 36 3.0/4.0 332/416 3.4/4.3 3 12.0 48 5.5/5.5 533/500 4.5/3.8 4 16.0	12 1.1/1.5 169/216 2.9/2.7 1 3.2 24 2.2/2.2 333/333 3.2/2.9 2 7.2 36 3.0/4.0 332/416 3.4/4.3 3 12.0 48 5.5/5.5 533/500 4.5/3.8 4 16.0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

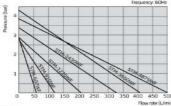
- Notes: 1) "*" sands for vertical pump. "*" stands for options.

 2) In order to maintain stable temp. of heat transfer media, cooling water pressure should be no less than 2kg/tcm², but also no more than 5kg/tcm².

 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, 230/400/460/575VAC, 50/60Hz.





Reference formula of Mould Controllers model selection Heater Power (kW) = mould weight (kg) \times mould specific heat (kcal/kg°C) \times temperature difference between mould and environment (°C) \times safety coefficient / heating duration / 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 (60)]

Notes: Water specific heat = 1kcal/kg°C Heating medium oil specific heat = 0.49kcal/kg°C Water density = 1kg/L Heating medium oil density = 0.842kg/L

19_STM-WF