# STM-W Series

# Specifications

# STM-W

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	Heating Tank Capacity (L)	Capling Method	Mould Coupling* (inch)	Intet/Outlet linch)	Dimensions (mm). (H×W×D)	Weigh (kg)
STM-607-W		6	0.55/0.63	27/30	3.8/5	1	3.0	Direct	3/8 (2×2)	3/4/3/4	635×320×740	55
STM-607-W-D		6×2	2×0.55 2×0.63	2×27 2×30	3.8/5	2	2×3.0		3/8 (4×2)	3/4/3/4	655×510×740	95
STM-910-W		9	0.75/0.92	42/50	5.0/6.4	1	3.0		3/8 (2×2)	3/4/3/4	635×320×740	60
STM-910-W-D		9×2	2×0.75 2×0.92	2×42 2×50	5.0/6.4	2	2×3.0		3/8 (4×2)	3/4/3/4	655×510×740	105
STM-1220-W		12	1.5/1.9	74/84	6.2/7.2	1	3.0		3/8 (4×2)	1/1	695×340×815	120
STM-2440-W		24	2.8/3.4	90/90	8.0/10.2	2	7.4		1 (1×2)	1/1	870×360×930	140
STM-3650-W		36	4	100/100	8.0/8.0	4	17.7		1 (1×2)	1/1	980×415×930	150

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Notes: 1) "D" stands for dual-heating zones, "\*\* stands for options.

2) Automatic drain facility can be added for all models as optional feature.

(Model denotes "R")

3) In order to maintain stable temp, of heat transfer media(120°C), cooling water pressure should be no less than 2kgf/cm\*, but also no more than 5kgf/cm\*.

4) Pump testing standard: Power of 50/60Hz, purified water at 20°C.

(There is ± 10% tolerance for either max. flowrate or max.pressure).

5) Power supply: 30, 230/400/460/575VAC, 50/60Hz.

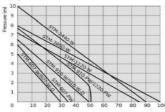
6) \*\*\*\* stands for for heating the machine to 140°C, cooling water pressure should not be lower than 4kgf/cm\*.

### STM-PW

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)		Cooling	Mould Coupling*	Inlet/Outlet	Dimensions (mm)	Weigh
							Heating	Cooling	Method	(inch)	(inch)	(H×W×D)	(kg)
STM-607-PW	000000	6	0.55/0.63	27/30	4.25/5.9	1	3.0	3		3/8 (2×2)	3/4/3/4	655×320×740	75
STM-910-PW		9	1.0/1.0	50/50.8	5.8/7.77	1	3.0	3		3/8 (2×2)	3/4/3/4	655×320×740	80
STM-1220-PW		12	1.0/1.0	50/50.8	5.8/7.77	1	3.2	3.2		3/8 (2×2)	3/4/3/4	655×320×920	80

Notes: 1) 'PW' stands for high temp. "\*" stands for options.
2) To ensure stable water temperature, cooling water pressure should not be less than 28gf/cm², but also no more than 5kgf/cm².
3) Pump testing standard: Power of 50/60Hz, purified water at 20°C. (There is ±10°S tolerance for either max, flowards or max, pressure).
4) 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 / 860

Notes: safety coefficient range 1.3~1.5.

Flow Rate (L/min) = heater power (kW)  $\times$  860 / [heating medium specific (kcal/kg°C)  $\times$  heating medium density (kg/L) $\times$  in/outlet temperature difference (°C) $\times$  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