

"Large Flow" Oil Heater

STM-3050F







BANGPLEE, SAMUTPRAKARN 10540 THAILAND.









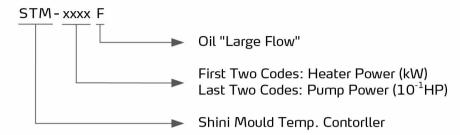


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STM-F Series

■ Coding Principle



Features

- P.I.D. multi-stage temperature control system can maintain a mould temperature.
- Maximum working temperature can reach 200°C with control accuracy of ± 1 °C.
- Controller adopts 3.2" LCD for easy operation.
- Multiple safety devices including power reverse phase protection, pump overload protection, overheat protection and low level protection that can automatically detect abnormal operation and indicate this via visible alarm.
- Adopts large-flow pump with high stability, which is not only suitable for heating up moulds and maintaining temperature, but also for extrusion molding and applications alike.
- Double-cooler design ensures optimal cooling effect.
- Standard equipped with RS485 interface and buzzer.



Control Panel

Options

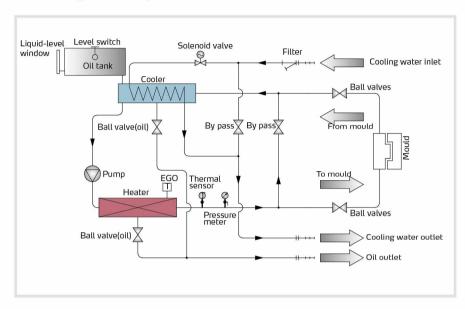
- The displayer of mold temperature and mold return water temperature can be optional, and add"TS" at the end of model code.
- The audible alarm can be optional (here the buzzer is cancelled), and add"AA"at the end of the model code.

■ Application

This series are suitable for heating up moulds and maintaining temperature, also they can be used in extrusion molding and applications requiring large flow and cooling throughput.



Working Principle



The high temperature oil returns to the machine and then be pressured by pump to the heaters. After being heated, oil will be forced to the mould and continue the circle. In the process, if the oil temperature is too high, system will activate the solenoid valve to let cooling water cool down high temperature oil indirectly till the temperature is down to the system requirement and achieve constant temperature. If the temperature keeps increasing and reaches to the set point of EGO, the system will sound alarm and stop operation. The system will have low level alarm and stop working if oil level falls down below the set point.

Specifications

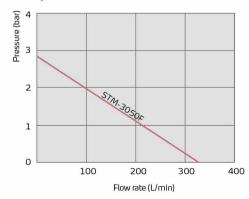
	Model	Max. Temp.	Pipe Heater (kW)	Pump Power (kW)	Max. pump Flow (L/min)	Max. pump Pressure (bar)				Cooling	Inlet/Outlet	Dimensions (mm)	Weight
							Tank Number		Main oil tank	Method	(inch)	(H × W × D)	(kg)
	STM-3050F	200°C	30	5.0	263	3.0	2	18	100	Indirect	1.5/1.5	1240×550×1280	280

Note: 1) "*" stands for options.

- 2) Pump testing standard: Power of 50Hz, purified water at 20° C. (There is $\pm 10\%$ tolerance for either max. flowrate or max. pressure).
- 3) Power supply: 3Φ, 230/400/460/575VAC, 50HZ.

We reserve the right to change specifications without prior notice.

Pump Performance



Reference formula of Mould Controllers model selection

Heater Power (kW) = mould weight (kg) × mould specific heat (kcal/kg $^{\circ}$ C) × temperature difference between mould and environment ($^{\circ}$ C) × safety coefficient / heating duration(hr) / 860

Note: safety coefficient can select a value from 1.3 to 1.5.

Flow Rate (L/min) = heater power (kw) \times 860 / [heating medium specific (kcal/kg°C) \times heating medium density (kg/L) \times inlet/outlet temperature difference (°C) \times time (60)]

Note: Heating medium oil specific heat =0.49kcal/kg℃ Heating medium oil density =0.842kg/L

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