

Auxiliary equipment
For plastic injection machine

AMTC SERIES

MOLD TEMPERATURE CONTROLLER

模具自动控温机



▶ AMTC

AMTC series mould automatic temperature controller is mainly used for mould heating and keep constant temperature, as well as the fields with same requirements. This series adopts heat-exchanging principle, uses water or high heat conduction oil as media, keep the mould in constant temperature during molding, guarantee top quality for molding, the optimized design ensuring the heating temperature up to 200°C.

AMTC系列模具自动控温机主要应用于模具加热与恒温，此外尚适用于其它有相同需求的领域。该系列模具自动控温机以热交换原理，利用水或高性能传热油为媒介，使模具在成型时间内保持稳定的温度，确保成型的高品质。其优化的设计使加热温度可达200°C。

机器特点

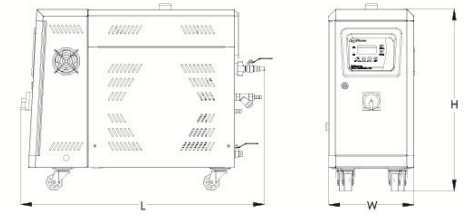
- 微电脑温度控制，操作直观、简便；PID温度控制、精度高、控温稳定、温度准确性在±1°C以内。
- 采用卧式泵浦，运行平稳、流量稳定，寿命长。
- 圆柱桶体设计，耐压防爆。
- 自动报警功能，当系统出现故障时，自动停机并示警，安全可靠。
- 外形美观大方，易拆式设计，便于维修。
- 提供油水两种规格，客户根据需求自行选购。

The characters of the machine

- Computer temperature control, direct-view and easy and simple for operation, PID temperature control with high accuracy and stable temperature controlling, the accuracy is ±1°C within.
- Use horizontal pump, running in smooth and steady, stable flow with long using life.
- Cylindrical tube design, pressurization and explosion-proof.
- Automatic alarming function, alarming and automatic stop when the system has the breakdown.
- Attractive appearance, easy-dismount design, convenient for maintenance.
- Two specifications of water and oil for customers selection.



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▶ Specifications 规格表

机型Model	最高温度 Maximum Temperature (°C)	冷却方式 Cooling Method	电热功率 Motor Power (kw)	泵浦功率 Pump Mold (kw)	最大流量 Maximum Runoff (L/min)	最大压力 Max Pressure (Bar)	模具接头 Mold Connecting (Inch)	外型尺寸 External Size HxWxL (mm)	重量 Weight (kg)
AMTC-6-W	水式120 Water	直接冷却 Direct Cooling	6	0.37	35	3	3/8" (2x2)	900x315x700	60
AMTC-9-W			9	0.75	60	4.5	3/8" (2x2)	900x315x700	65
AMTC-12-W			12	1.5	90	4.5	3/8" (4x2)	1000x350x900	85
AMTC-6-WD			6x2	0.37x2	35x2	3	3/8" (4x2)	900x650x700	100
AMTC-9-WD			9x2	0.75x2	60x2	4.5	3/8" (4x2)	900x650x700	110
AMTC-12-WD			12x2	1.5x2	90x2	4.5	1" (2x2)	1000x720x700	145
AMTC-6-O	油式200 Oil	间接冷却 Indirect Cooling	6	0.37	35	3	3/8" (2x2)	900x315x700	64
AMTC-9-O			9	0.75	60	4.5	3/8" (2x2)	900x315x700	69
AMTC-12-O			12	1.5	90	4.5	3/8" (4x2)	1000x350x900	90
AMTC-6-OD			6x2	0.5x2	35x2	3	3/8" (4x2)	900x650x700	110
AMTC-9-OD			9x2	0.75x2	60x2	4.5	3/8" (4x2)	900x650x700	120
AMTC-12-OD			12x2	1.5x2	90x2	4.5	1" (2x2)	1000x720x700	155

模具自动控温机选型参考 The reference for mould automatic temperature control machine selection

成型机锁模力 Mould clamping force of plastic injection machine	T	50以下	50-100	100-200	200-300	300-650	650以上
成型能力 Molding capacity	kg/hr	6以下	6-12	12-25	25-40	40-80	80以上
泵浦流量 The flow of pump	L/min	30	30	30	40	60	100

产品规格若有变更,恕不另行通知。
please excuse for not note if some specifications of products are changed.

Note 注:

- 1) "W"代表水式
- 2) "D"代表双段
- 3) "O"表示为油式
- 4) 机器电压规格为3φ 380V 50Hz.
- 5) 选型公式参考:
① 电热 (KW) = 模具重量(kg) × 模具比热 (kcal/kg·°C) × [(模具温度-环境温度) (°C)] × 安全系数/加热时间/860
安全系数可选1.3-1.5
② 流量(L/min) = 电热功率 (KW) × 860 / [热媒比热 (kcal/kg·°C) × 热媒密度 (kg/L) × 进出温差(°C) × 60]
③ 水比热: 1kcal/kg·°C
④ 水密度: 1kg/L
⑤ 热媒油比热: 0.49kcal/kg·°C
⑥ 热媒油密度: 0.84kg/L

- 1) "W" indicate water-type controller
- 2) "D" is double section
- 3) "O" means oil type
- 4) The Voltage Specification of Machine is 3φ 380V 50Hz
The voltage can be changed as you require
- 5) The reference for mould automatic temperature control machine selection
① Heater(KW); mold weight(KG) × mold heat (kcal/kg·°C) × [(mold temperature-ambient temperature) (°C)] × safety factor/heating time/860
safety factor optional selection 1.3-1.5
② Water flow(L/min) = heater power (KW) × 860 / [heat medium heat (kcal/kg·°C) × heat medium density (kg/L) × out let and inlet temperature (°C) × 60]
③ Water heat: 1kcal/kg·°C
④ Water density: 1kg/L
⑤ Thermal oil heat: 0.49kcal/kg·°C
⑥ Thermal oil density: 0.84kg/L