

TTW Series Water Type Mold Temperature Controllers

水式模温机TTW系列



使用水为传热媒介，以直接（标准型）或间接冷却（高温型）方式达到热交换。具有热传导效率高，污染少，水资源容易取得，使用成本低等优点。标准型温度控制达120~160℃。

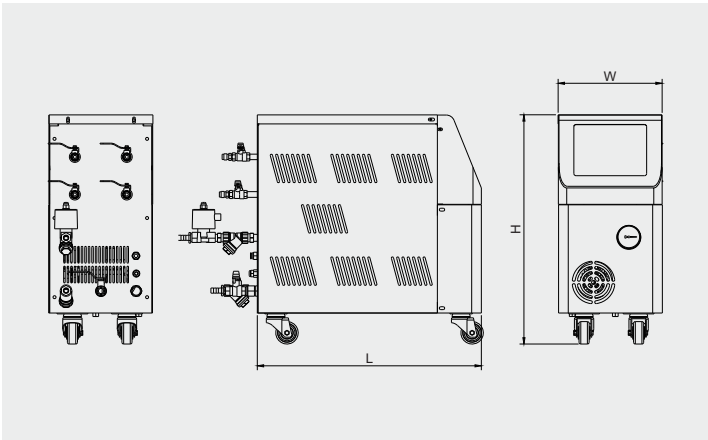
Water Type Mold Temperature Controllers use water as heating media to realize heat exchange by direct cooling for standard temperature control from 120~160℃. Water type has its superiorities with high efficient heat transmission, less pollution, water resource easy to be attained with low cost.

冷却单元的冷却器结构获得实用新型专利
Practical New Patent for structure of cooler
专利号/Patent No: ZL 201120245120. X

特点

- ◆电控箱与机身隔离，隔热效果佳，电器使用寿命长。
- ◆模温机专用PID控制器，控温更合理，省电35%以上。
- ◆安全保护及故障指示系统完善，维修方便无需专业人员。
- ◆进口高级组件，使用年限长。
- ◆升降温速度快，温度精确稳定，可达±0.1℃。
- ◆独特的加热设计，适合不同温控场所使用，节能效果明显。
- ◆主管路采用304不锈钢一体成型，管损小，加热均匀，使用寿命长。
- ◆开机自动排气功能。
- ◆吹气回水功能。

产品结构图 Product Structure Diagram



Features

- ◆Electronic control panel and machine body are isolated to acquire good effects on heat insulation in order to extend the service life of electrical components.
- ◆P.I.D multi-stage temperature control system can save power up to 35% thanks to control temperature accurately & reasonably.
- ◆Perfect safety protection and error indication display which are easy maintained and repaired ,even without professionals can do it.
- ◆Imported hi-class parts with long service life.
- ◆Rapid heating and cool down speeds lead temperature to be kept precisely and stably with accuracy up to ±0.1℃.
- ◆Unique heating design are suitable to different temperature control application with excellent & distinct power saving.
- ◆304 stainless steel integrated pipelines with less pipe resistance and even heating for long service life.
- ◆Automatic air-exhausting function after startup.



双温水式模温机

Dual-purpose water type mold temperature controller

安全保护及指示系统

- 安全保护及指示系统
- 电源欠相保护
- 总电源保护及指示灯
- 泵反转保护及指示灯
- 泵过载保护及指示灯
- 缺水保护及指示灯
- 过热保护及指示灯
- 热水By-pass 洩压回路
- 强制冷却
- 温度异常警报
- 异常警报蜂鸣器

选择加装配件

- 感温棒接到外部配线
- 大型水质滤芯器
- 防漏电保护开关
- 电压异常保护开关
- 铁弗龙管

Safety Protecting and Indiction System

- Safty Protection and Indiction System
- Power lack-phase protection
- Power supply protection and indicating lamp
- Pump reverse protection and indicating lamp
- Pump overload protection and indicating lamp
- Water shortage protection and indicating lamp
- Overheat protection and indicating lamp
- Hot water by-pass pressure release loop
- Forced cooling
- Abnormal temperature alarm
- Abnormal alarm buzzer

Additional Equipment For Option

- Thermocouplen for connecting external wiring
- Large water filter
- leakage protection switch
- Abnormal voltage protection switch
- Teflon hose



规格表 Specification Sheet

产品型号 Model	TTW-120S	TTW-1210	TTW-1220	TTW-1230	TTW-1250	TTW-1410	TTW-1420	TTW-1610	TTW-1620	TTW-1650	TTW-120SD	TTW-1210D	TTW-1420D	TTW-1610D
加热器功率 Heater Power (KW)	6	9	9	6x2	9x2	9	9	9	12	9x2	6x2	9x2	9x2	9x2
传热媒介 Heat Transfer Medium	水 Water										水 Water			
冷却方式 Cooling Method	直接冷却 Direct					直接 Direct / 间接冷却 Direct/			直接冷却 Direct		直接冷却 Direct	直接/间接冷却 Direct/Indirect	直接冷却 Direct	
冷却水压要求 Min. Water Pressure (Kg/cm2)	2~5					直接 Direct 4~5 间接 Indirect 1~5			1~5		2~5	直接 Direct 4~5 间接 Indirect 1~5	1~5	
冷却水配管 Cooling Water Pipe	PT 1 / 2									PT 3 / 4	PT 1/2			
最高使用温度 Max. Working Temp. (°C)	120					140			160		120	120	140	160
最低使用温度 Min. Working Temp. (°C)	进水温度+3~5℃ Inlet Temp. +3~5℃										进水温度+3~5℃ Inlet Temp. +3~5℃			
温控精度 Temperature Control Accuracy(°C)	±0.1℃										±0.1℃			
热水配管 Hot Water Pipe	2进2出PT1/4 2in2outPT1/4	8进8出PT3/8 8in8outPT3/8					1进1出PT1 1in1outPT1			2进2出PT1/4两组 2in2outPT1/4x2	4进4出PT3/8 x两组 4in4outPT3/8x2			
冷却能力 Cooling Capacity (Kcal/H)	5400									7500	10800			
水泵功率 Pump Power (HP)	0.5	1	2	3	5	1	2	1	2	5	0.5x2	1x2	2x2	1x2
水泵流量 Pump Flow (L/min)	35	60	145	200	280	60	145	60	145	280	35	60	145	60
水泵扬程 Water pump lifts (M)	26										26			
系统电源 Power Supply (V)	AC380V/3P /50HZ										AC380V/3P /50HZ			
机器总功率 Total Power (KW)	6.5	9.9	10.5	15	22	9.9	10.7	9.9	13.5	22	13	19.8	21	19.8
电源线规格 Wires Specifications (mm²)	4*2.5	4*4	4*4	4*6	4*10	4*4	4*6	4*4	4*6	4*10	4*6	4*10	4*10	4*10
电源线长度 Wires Length (M)	6										6			
外观尺寸 Dimensions LxWxH(m)	0.51*0.23*0.52	0.62*0.29*0.59	0.67*0.29*0.7	0.67*0.35*0.79	0.8*0.43*0.97	0.67*0.29*0.7	0.67*0.29*0.7	0.7*0.29*0.7	0.8*0.35*0.79	1.07*0.43*1.12	0.51*0.52*0.46	0.65*0.4*0.77	0.7*0.58*0.67	0.82*0.403*0.69
机器重量 Weight (Kg)	40	50	55	65	90	65	70	75	80	100	70	90	100	140

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice.

TTO Series Oil Type Mold Temperature Controllers

油式模温机TTO系列



使用油为传热媒介，以间接冷却方式达到热交换，具有控温范围大，热稳定性好等优点。标准型温度控制达200℃，高温型已达300℃。

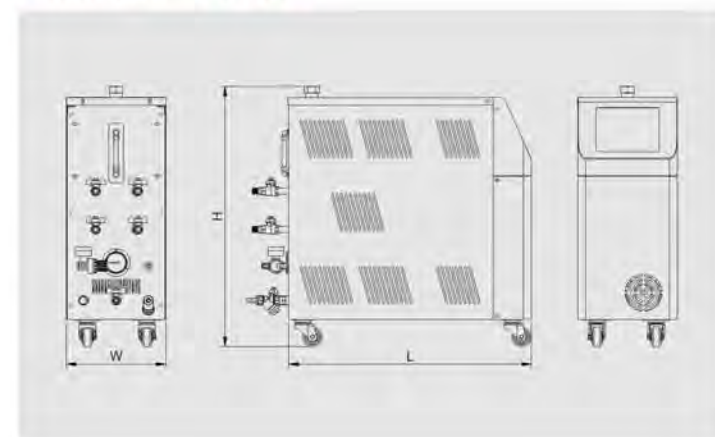
Oil Type Mold Temperature Controllers use oil as heating media to realize heat exchange by indirect cooling. Oil type has its superiorities with wide temperature controlled range and excellent heat stability. Standard heating temperature can reach at 200℃ while high temperature type can reach 300℃.

特点

- ◆电控箱与机身隔离，隔热效果佳，电器使用寿命长。
- ◆模温机专用PID控制器，控温更合理，省电35%以上。
- ◆安全保护及故障指示系统完善，维修方便无需专业人员。
- ◆进口高级组件，使用年限长。
- ◆升降温速度快，温度精确稳定，可达 $\pm 0.1^{\circ}\text{C}$ 。
- ◆独特的加热设计，适合不同温控场所使用，节能效果明显。
- ◆主管路采用304不锈钢一体成型，管损小，加热均匀，使用寿命长。
- ◆开机自动排气功能。
- ◆吹气回油功能。

产品结构图

Product Structure Diagram



Features

- ◆ Electronic control panel and machine body are isolated to acquire good effects on heat insulation in order to extend the service life of electrical components.
- ◆ P.I.D multi-stage temperature control system can save power up to 35% thanks to control temperature accurately & reasonably.
- ◆ Perfect safety protection and error indication display which are easy maintained and repaired, even without professionals can do it.
- ◆ Imported hi-class parts with long service life.
- ◆ Rapid heating and cool down speeds lead temperature to be kept precisely and stably with accuracy up to $\pm 0.1^{\circ}\text{C}$.
- ◆ Unique heating design are suitable to different temperature control application with excellent & distinct power saving.
- ◆ 304 stainless steel integrated pipelines with less pipe resistance and even heating for long service life.
- ◆ Automatic air-exhausting function after startup.
- ◆ Air blowing and return oil function.



双温油式模温机

Dual-purpose oil type mold temperature controller

安全保护及指示系统

安全保护及指示系统

电源欠相保护

总电源无熔丝断路器

泵反转保护及指示灯

泵过载保护及指示灯

缺水保护及指示灯

过热保护及指示灯

热油By-pass 压回路

强制冷却

温度异常警报

异常警报蜂鸣器

缺油保护及指示器

选择加装配件

感温棒接到外部配线

防漏电保护开关

回油温度显示表

电压异常保护开关

铁弗龙管

Safety Protecting and Indiction System

Safety Protection and Indiction System

Power lack-phase protection

Non-fuse circuit braker for protecting power supply

Pump reverse protection and indicating lamp

Pump overload protection and indicating lamp

Water shortage protection and indicating lamp

Overheat protection and indicating lamp

Hot oil by-pass pressure release loop

Forced cooling

Abnormal temperature alarm

Abnormal alarm buzzer

Oil shortage protection and indicating lamp

Additional Equipment For Option

Thermocouplen for connecting external wiring

leakage protection switch

Thermometer for return oil

Abnormal voltage protection switch

Teflon hose

规格表

Specification Sheet

产品型号 Model	TTO-2005	TTO-2010	TTO-2020	TTO-3010	TTO-2005D	TTO-2010D	TTO-2020D
加热器功率 Heater Power (KW)	6	9	9	12	6x2	9x2	9x2
传热媒介 Heat Transfer Medium	油 Oil						
冷却方式 Cooling Method	间接冷却 Indirect						
冷却水压要求 Min. Water Pressure (kg/cm2)	1~5						
冷却水配管 Cooling Water Pipe	PT1/2						
最高使用温度 Max. Working Temp. (°C)	200	200	200	300	200	200	200
最低使用温度 Min. Working Temp. (°C)	进水温度+50°C Inlet Temp.+50°C						
温控精度 Temperature Control Accuracy(°C)	± 0.1°C						
热水配管 Hot Water Pipe	2进2出PT3/8 2in2out PT3/8	4进4出PT3/8 4in4out PT3/8	4进4出PT3/8 4in4out PT3/8	4进4出PT1/2 4in4out PT1/2	2进2出PT3/8 2in2out PT3/8	4进4出PT3/8 4in4out PT3/8	4进4出PT3/8 4in4out PT3/8
冷却能力 Cooling Capacity (Kcal/H)	8000	9000	9000	9500	16000	18000	18000
水泵功率 Pump Power (HP)	0.5	1	2	1	0.5x2	1x2	2x2
水泵流量 Pump Flow (L/min)	35	45	70	75	35x2	45x2	70x2
油箱容量 Oil Tank (L)	7	7	7	15	7x2	7x2	7x2
水泵扬程 Water pump lifts (M)	26						
系统电源 Power Supply (V)	AC380V/3P/50HZ						
机器总功率 Total Power (KW)	6.5	9.9	10.7	12.9	13	19.8	21.4
电源线规格 Wires Specifications (mm²)	4×4			4x6		4x10	
电源线长度 Wires Length (M)	6						
外观尺寸 Dimensions LxHxW(m)	0.635*0.65*0.26	0.67*0.7*0.29	0.67*0.7*0.29	0.93*0.88*0.38	0.635*0.65*0.52	0.67*0.7*0.58	0.74*0.7*0.58
机器重量 Weight (Kg)	60	70	100	155	110	130	190

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