

The machine is mainly used for mold temperature control, roller temperature control, aluminum-magnesium alloy die-casting mold temperature control, as well as chemical reaction kettle, rubber tire, roller, bonding, mixing and temperature control. Through the unit's temperature and cooling to automatically adjust the temperature to ensure that the mold or roller temperature stability and accuracy. The use of mold temperature can reduce the mold warm-up time, improve the finished surface quality, greatly improve the molding efficiency, reduce the occurrence of defective products, speed up the production schedule and achieve automatic production.

## Application :

Injection/Blister/Blow molding temperature controller, Sheet/pipe/wire extrusion production line mold, roller temperature controller, rubber production line temperature control, chemical reactor temperature control, Aluminum-magnesium alloy die casting temperature control and other needs automatic control temperature industry.



## Standard Water/Oil Temperature Controller



### Features:

- The choice of high quality pump, stable and reliable quality, low noise, long service life.
- The use of high-quality high-temperature pipeline components, pipeline explosion-proof devices and BY-PASS pressure relief circuit.
- The use of 304 stainless steel one pipe, reducing pipe resistance and rust.
- Using the overall microcomputer control panel, simple and portable.
- The electrical control part of the use of isolated electrical boxes and Schneider, Chint and other brand-name electrical components to extend the useful life of electrical appliances.
- Safe and sound, real-time fault display. With overheating (over-temperature), lack of media, reverse phase, overvoltage, pump overload automatic alarm system, when any one of the excessive, the machine will stop action to ensure safety.
- Oil type adopts high temperature oil cooler installed independently, which has stronger cooling capacity than the traditional way.

### Specification :

Model	MT6W05P -W	MT9W1P -W	MT12W15P -W	MT18W2P -W	MT24W3P -W	MT6W05P -O	MT9W1P -O	MT12W15P -O	MT18W2P -O	MT24W3P -O
Medium	Water					Heat conduction oil				
Temperature Range	≤100° C					≤200° C				
Temperature Control Accuracy	PID+1° C									
( KW ) Heating Capacity	6	9	12	18	24	6	9	12	18	24
Cooling Method	Direct cooling					Indirect cooling				
( HP ) Pump Power	0.5/0.37	1/0.75	1.5/1.1	2/1.5	3/2.2	0.5/0.37	1/0.75	1.5/1.1	2/1.5	3/2.2
( L/min ) Pump Flow	42	56	56/165	110/235	180/315	42	56	56	110	180
Mold In / Outlet	3/8 × 2	3/8 × 2	3/8 × 2	1.5 × 2	1.5 × 2	3/8 × 2	3/8 × 2	3/8 × 2	1.5 × 2	1.5 × 2
Water In / Outlet	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
( kg/cm <sup>2</sup> ) Max Pressure	3	3	4	4	4	3	3	4	4	4
( L*W*H ) Dimensions	750 × 340 × 670	750 × 340 × 670	890 × 410 × 700	980 × 520 × 800	980 × 520 × 800	750 × 340 × 690	750 × 340 × 690	890 × 410 × 710	980 × 520 × 810	980 × 520 × 810
( L ) Built-in tank size						6	7	15	35	35
( KG ) Approx Weight	60	62	60	76	85	76	76	76	98	110

\*Special design upon request.



## 150 °C high temperature water mold temperature controller

### Features:

- Indirect cooling, temperature control is more accurate, good heat exchange effect.
- Pump with multi-stage centrifugal pump, high flow and high pressure, stable performance.
- Equipped with safety valve, and pipeline explosion-proof devices and hot water BY-PASS pressure relief circuit to ensure system stability and security.
- The use of integrated piping, reducing pipe resistance and rust, safe and no leakage.
- The use of integrated microcomputer control panel, simple, easy to operate.
- Electrical control part of the use of isolated electrical boxes and Schneider, Chint and other brand-name electrical components to extend the electrical life.
- Microcomputer control, high temperature control accuracy.
- Equipped with high temperature Teflon tube.
- Safe and perfect, real-time fault display, easy maintenance. Configure the power reverse phase protection, pump overload protection, over-temperature protection, low level protection and other safety devices, when the failure occurs, real-time display.



### Specification :

Model	MT9W10P-HW	MT12W20P-HW	MT18W30P-HW
Medium	Water		
Temperature Range	≤150°C		
Temperature Control Accuracy	PID±1°C		
( KW ) Heating Capacity	9	12	18
Cooling Method	Indirect cooling		
( HP ) Pump Power	1	2	3
( L/min ) Pump Flow	56	110	140
( kg/cm <sup>2</sup> ) Max Pressure	12	14	16
Media in/ Outlet	3/8×4	1×2	1×2
Water In / Outlet	1/2	3/4	1
( L*W*H ) Dimensions	890×410×700	890×410×700	980×410×1000
( KG ) Approx Weight	75	85	95

\*Special design upon request.

## High-temperature Oil Mold Temperature Controller

### Features:

- High temperature oil mold temperature controller, temperature range up to 300 ° C / 350 ° C.
- High-performance imported high-temperature pump, large flow and stable, low noise, durable. Pump horsepower and heating power can be customized.
- The use of high-quality high-quality heating wire, power and durable, safe and reliable.
- With high-intensity cooling capacity, the use of independent installation of high-temperature oil cooler, copper than the traditional direct cooling effect in the heater better and more secure.
- The use of integrated microcomputer control panel, simple operation, precise temperature control. Touch switches a key automatic switch machine.
- Electrical control part of the use of isolated electrical control box and Schneider and other brand-name electrical components to extend the service life of electrical appliances.
- The use of high-quality high-temperature pipeline components, pipeline explosion-proof device and BY-PASS hot oil pressure relief circuit.
- 304 stainless steel integrated pipe, reducing pipe resistance and rust.
- Perfect security, fault real-time display. Complete overheating, lack of media, reverse phase, overvoltage, pump overload of the automatic alarm system, when either of the excessive, the machine will stop action to ensure safety.



The high temperature oil mold temperature machine produced by Heli Machinery has the advantages of large pump flow rate, high heating power, high range of temperature control accuracy, fast thermal conductivity, good thermal stability, compact structure, energy saving and high efficiency. It is suitable for aluminum-magnesium alloy die-casting mold temperature control, plastic rubber industry calendar, mixing, curing, textile printing and dyeing industry, heat setting, drying, printing industry composite, film, non-woven to the rolling heating.

### Specification :

Model	MT1218-HO	MT1824-HO	MT2436-HO	MT3648-HO
Medium	High-temperature heat-conducting oil			
Temperature Range	≤350°C			
Temperature Control Accuracy	PID±1°C			
Heating Capacity	12/18	18/24	24/36	36/48
Cooling Method	Indirect cooling			
Media in/ Outlet	1×2	1×2	1×2	(1-1/2)×2
Water In / Outlet	1/2	3/4	3/4	1
( kg/cm <sup>2</sup> ) Max Pressure	2	2.5	3	4
( HP ) Pump Power	4	4	5	5
( L/min ) Pump Flow	100	166	210	266
( L ) Fuel tank Capacity	35	50	70	100
( L*W*H ) Dimensions	1480×500×1000	1560×600×1000	1580×620×1000	1600×650×1400
( KG ) Approx Weight	180	260	280	360

\*Special design upon request.





### Two-in one mold temperature controller



**Features:**

- Independent control of temperature, suitable for different temperature before and after the mold needs, but also can accurately control the temperature of two different hosts, easy to use.
- The use of vertical one compact structure, the installation area is small, saving space.
- The overall microcomputer controller, temperature control, high precision, low failure rate.
- Safe and sound, real-time fault display.
- The use of convenient operation, easy maintenance.

**技术参数 Specification :**

Model	MT6W05P -DW	MT9W10P -DW	MT12W15P -DW	MT18W20P -DW	MT6W05P -2O	MT9W1P -2O	MT12W15P -2O	MT18W2P -2O	MT24W3P -2O
Medium	Water				Heat conduction oil				
Temperature Range	≤100° C				≤200° C				
Temperature Control Accuracy	PID+1° C								
( KW ) Heating Capacity	6KW*2	9KW*2	12KW*2	18KW*2	6*2	9*2	12*2	18*2	24*2
Cooling Method	Direct cooling				Indirect cooling				
( HP ) Pump Power	0.5	1	1.5	2	0.5*2	1*2	1.5*2	2*2	3*2
( L/min ) Pump Flow	40	56	110	180	42	56	56	110	180
Mold In / Outlet	3/8 × 4	3/8 × 4	1 × 4	1 × 4	3/8 × 4	3/8 × 4	1 × 4	1.5 × 4	1.5 × 4
Water In / Outlet	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
( kg/cm <sup>2</sup> ) Max Pressure	3	3	4	4	3	3	4	4	4
( L*W*H ) Dimensions					40	60	60	110	150
( L ) Built-in tank size	880 × 380 × 870	880 × 380 × 870	880 × 380 × 870	980 × 520 × 1200	980 × 620 × 870	980 × 620 × 870	980 × 620 × 870	1060 × 660 × 900	1060 × 660 × 900
( KG ) Approx Weight	98	98	128	136	128	128	148	168	178

\*Special design upon request.

### Extrusion Line Roller temperature Controller

Heli machinery production of extrusion production line roller temperature control, is based on roller characteristics and the actual temperature control needs, as well as the extrusion process encountered in various problems, through continuous optimization developed from, to accurately control the roller Temperature, roller is the best partner of temperature control.



**Features:**

- Use of brand-name high-temperature pump, flow stability, low noise, durable.
- High-quality high-temperature heating wire, power and durable, safe and reliable.
- The use of independent installation of high-temperature oil cooler, than the traditional direct use of copper in the heater in the cooling effect is better and more secure.
- Integral microcomputer controller, easy to operate, precise temperature control.
- Electrical control part of the use of isolated electrical boxes, Schneider, Chint and other brand-name electrical components to extend the useful life of electrical appliances.
- Configuration pipeline explosion-proof devices, integrated with 304 stainless steel pipe, reducing pipe resistance and rust.
- Safe and sound, real-time fault display. With overheating (over-temperature), lack of media, reverse phase, overvoltage, pump overload automatic alarm system, when any one of the excessive, the machine will stop action to ensure safety.

**Specification :**

Model	MT9W10P-3W	MT12W10P-3W	MT12W20P-3W	MT9W10P-3O	MT 12W10P-3O	MT12W20P-3O
Medium	Water			Heat conduction oil		
Temperature Range	≤100°C/≤150°C			≤200°C		
Temperature Control Accuracy	PID±1°C					
( KW ) Heating Capacity	9×3	12×3	12×3	9×3	12×3	12×3
Cooling Method	Direct cooling			Indirect cooling		
( HP ) Pump Power	1×3	1×3	2×3	1×3	1×3	2×3
( L/min ) Pump Flow	56×3	56×3	110×3	56×3	56×3	110×3
Media in/ Outlet	1×6	1×6	1×6	1×6	1×6	1×6
( kg/cm <sup>2</sup> ) Max Pressure	3/4-1			3/4-1		
Water In / Outlet	3/12	4/15	4/15	3	3	4
( L ) Built-in fuel tank				50	50	80
( L*W*H ) Dimensions	1200×710×1030	1200×710×1030	1200×710×1030	1200×730×1030	1200×730×1250	1200×730×1250

\*Special design upon request.



## Rubber production line mold temperature Controller

Heli machinery produced rubber production line mold temperature control, mainly used in rubber processing technology in the extrusion, refining, mixing, curing temperature control. According to different needs, can be divided into built-in rubber production line temperature control unit, external rubber production line all-in-one mold temperature machine.

### Rubber production line temperature control unit



### Specification :

Model	MT6W05P-RW	MT9W10P-RW	MT12W10P-RW
Medium	Water		
Temperature Range	≤100°C		
Temperature Control Accuracy	PID±1°C		
( KW ) Heating Capacity	6	9	12
Cooling Method	Direct cooling		
( HP ) Pump Power	0.5	1	1
( L/min ) Pump Flow	42	56	56
Media in/ Outlet	2	2	2
Water In / Outlet	1/2-1		

\*Special design upon request.

## Four-in-one mold temperature controller

### Features:

- Use of brand-name high-temperature pump, flow stability, low noise, durable.
- High-quality high-quality heating wire, power and durable, safe and reliable.
- Oil type with independent installation of high-temperature oil cooler, than the traditional direct use of copper in the heater in the cooling effect is better and more secure.
- Integral microcomputer controller, easy to operate, precise temperature control.
- Electrical control part of the use of isolated electrical boxes, Schneider, Chint and other brand-name electrical components to extend the useful life of electrical appliances.
- Configuration pipeline explosion-proof devices, integrated with 304 stainless steel pipe, reducing pipe resistance and rust.
- Perfect security, fault real-time display. With overheating, lack of media, reverse phase, overvoltage, pump overload automatic alarm system, when any one of the excessive, the machine will stop action to ensure safety.



### Specification :

Model	MT6W05P-4W	MT9W10P-4W	MT12W10P-4W
Medium	Water		
Temperature Range	≤100°C		
Temperature Control Accuracy	PID±1°C		
( KW ) Heating Capacity	6×4	9×4	12×4
Cooling Method	Direct cooling		
( HP ) Pump Power	0.5	1	1
( L/min ) Pump Flow	42	56	56
Media in/ Outlet	1×8	1×8	1×8
Water In / Outlet	1/2-1		
( kg/cm <sup>2</sup> ) Max Pressure	3	3	4

\*以上规格如有变更, 恕不另行通知, 特殊规格可另行设计制造。Special design upon request.