

Temperature Control Equipment Manufacturer

A leading global manufacturer with 20+ year experience in research, development & production of temperature control



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Siemens Partner



Explosion-proof Equipment Installation Qualification Certificate



High-tech enterprise



Second prize of 2022 Science and technology Jiangsu Innovation and Entrepreneurship Competition



Gazella Company



Province specialized special new small and medium-sized enterprises



High Quality Development A ward



Boiler Certificate



Industrial Pipeline Installation Certificate



Invention patent

Heating circulator UST Series (with water cooling)

- UST-series with the function of cooling down from high temp. and the temp. range from 300°C to 50°C.
- Equipped with heating and cooling system, large heat exchange area, rapid speed of heating-cooling, the small demand for heat conducting medium.
- Can offer heating and cooling continuously.
- The whole system is closed, there is no oil mist at high temperature, no volatilization of heat conducting medium at high temperature.
- With inter temperature sensor PT100 to adjust internal circulation temperature.
- The whole system is a closed liquid circulation system with the expansion tank, expansion tank and the liquid circulation is adiabatic, and do not participate in liquid circulation, only mechanical connection, regardless of the temp. is a high temp. or low temp., the tank temp. is limited to 60°C.
- Allow fill in 15°C cooling water, to enlarge temperature range of 25°C to 300°C.



Model	UST-5530	UST-7530	UST-A1030	UST-A1530	UST-A2530	UST-A3830	UST-A6030	UST-A9530	
Temp. range	RT +10°C~+300°C								
Control Mode	Feedback PID + Our special dynamic control calculation, PLC controller								
Temp. control	Process temp control and jacket temp control model								
Temp difference	Set or control the temperature difference between jacket oil and raw material process								
Program Editor	5 programs, each program can edit 40 steps								
Communication protocol	MODBUS RTU Protocol,RS485 interface								
Material temp feedback	PT100 OR 4~20mA or communication(normal: PT100)								
Temp feedback	The temp of three points: the inlet and outlet of equipment, reactor material temperature(external temp sensor)								
Medium temp accuracy	±0.5°C						±1°C		
Material temp accuracy	±1°C								
Heating power kW	5.5	7.5	10	15	25	38	60	95	
Cooling capacity	300°C	5.5	7.5	10	15	25	38	60	95
	200°C	5.5	7.5	10	15	25	38	60	95
	100°C	4	5	7	12	20	30	48	76
	65°C	1.8	2.2	3	5	8.5	12	19	30
Circulation pump max L/min bar	35	50	50	110	150	200	250	400	
	2	2	2	2.5	2.5	2.5	2.5	2.5	
Operation Panel	7-inch touch screen, show temp curve\EXCEL data output								
Safety protection	Self-diagnosis function; freezer overload protection; high pressure switch, overload relay, thermal protection device, high temperature protection and temp fault protection								
Closed circulation system	The whole system is full closed circulation, there is no oil mist at high temp and no water vapor at low temp, pressure do not rise up when system is running. The system will supply oil automatically at low temperature								
Connection size(medium port)	ZG3/4	ZG3/4	ZG3/4	ZG1	DN32	DN40	DN40	DN50	
Connection size(water port)	ZG3/4	ZG3/4	ZG3/4	ZG1	DN32	DN40	DN40	DN50	
Dimension cm	40*70 *130	45*70 *160	45*70 *160	70*100 *175	70*100 *175	80*120 *185	150*100 *185	200*145 *205	
Weight kg	110	120	160	195	265	395	615	950	
Power MAX 380V 50HZ	7kW	9kW	12kW	17kW	28kW	41kW	65kW	96kW	

Heating circulator UC/LY Series

- UC series with function from high temperature to cooling process, from 300°C~50°C.
- Equipped with heating cooling container, with large heat transfer area, fast heat-up and cool-down, small heat transfer oil demand.
- Can heat-up and cool-down continuously.
- The whole cycle is full closed, there is no oil mist at high temperature, heat transfer oil can not be oxidized and browning.
- With function of internal PT100 for correcting internal circulation.
- The whole system is closed with expansion tank, the expansion tank and liquid circulation are thermal insulation, do not participate in liquid circulation, regardless of high or low temperature, the medium in expansion tank is limited to 60°C.



Model	LY-5020	LY-A020	UC-5020	UC-A1020	UC-A1520
Temp. range	+50°C~+170°C				
Controller	PID adaptive controller				
Temp. control	Heat-conducting medium outlet temp. control				
Temp. feedback	Heat-conducting medium temperature feedback PT100				
Temp. accuracy	±0.5°C				
Heating power KW	5.5kW	10kW	5.5kW	10kW	15kW
Cooling Capacity kW at	200°C		5.5kW	10kW	15kW
	100°C		4kW	8kW	12kW
	65°C		1.8kW	3.4kW	5kW
Circulation pump flow	35L/min 1.5bar	50L/min 1.5bar	35L/min 1.5bar	50L/min 1.5bar	50L/min 1.5bar
Heater	Flanged pipe electric heater				
Independent temp. limite	Rainbow temperature protector				
Cooler	Copper Tube Aluminum Fin air-cooled Condenser				Plate heat exchanger
Operation panel	Display set temperature and measured temperature , key operation input temperature				
Safety Protection	overload relay、variety of security features such as thermal protection devices				
Closed Circulation System	The whole system is a full closed circulation, there is No oil mist at high temperature,pressure do not rise up when system is running. The system will supplement oil automatically at low temperature.				
Connection size	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG1
Dimension cm	40*70*130	40*70*130	40*70*130	40*70*130	70*100*175
Weight kg	70kg	80kg	78kg	128kg	170kg
Power max AC 380V 50HZ	6kW	11kW	6kW	11kW	16kW
Case material	Cold rolled sheet spray				
Optional	Optional 7-inch color touch screen , recording temperature curve , data export using excel format				
Optional	SUS304 shell				
Optional Power	220V 60HZ three phase , 440V ~ 460V 60HZ three phase				



UC 50°C~300°C

Model	UC-5530N	UC-7530N	UC-A1030N	UC-A1530N	UC-A2530N	UC-A3830N	UC-A6030N	UC-A9530N	UC-A13030N	
Temp range	+50°C~+300°C									
Controller	PID adaptive controller									
Temp control	Heat-conducting medium outlet temp. control									
Display/Record	7-inch color touch screen , recording temperature curve , data export using excel format									
Temp feedback	Heat-conducting medium temperature feedback Pt100									
Temp accuracy	±0.5°C									
Heating power	5.5kW	7.5kW	10kW	15kW	25kW	38kW	60kW	95kW	130kW	
Cooling Capacity kW at	300°C	5.5kW	7.5kW	10kW	15kW	25kW	38kW	60kW	95kW	130kW
	200°C	5.5kW	7.5kW	10kW	15kW	25kW	38kW	60kW	95kW	130kW
	100°C	4kW	5kW	7kW	12kW	20kW	30kW	48kW	76kW	100kW
	65°C	1.8kW	2.2kW	3kW	5kW	8.5kW	12kW	19kW	30kW	40kW
Circulation pump flow MAX	35L/min 1.2bar	50L/min 1.2bar	50L/min 1.2bar	110L/min 1.5bar	150L/min 1.5bar	200L/min 1.5bar	250L/min 2.5bar	400L/min 2.5bar	400L/min 2.5bar	
Heater	Flanged pipe electric heater									
Independent temp limite	Lneya									
Cooler	Copper Tube Aluminum Fin air-cooled Condenser			Plate heat exchanger/Tube heat exchanger						
Operation panel	Display set temperature and measured temperature , key operation input temperature									
Safety Protection	Self-diagnosis function; freezer overload protection; high pressure switch; overload relay; thermal protection device and other safety protection.									
Closed Circulation System	The whole system is full closed circulation, there is no oil mist at high temp. and no water vapor at low temp., pressure do not rise up when system is running. The system will supplement oil automatically at low temperature.									
Connection size	ZG3/4	ZG1	ZG1	ZG1	DN32	DN40	DN40	DN50	DN50	
Dimension cm	40*70 *130	45*70 *160	45*70 *160	70*100 *175	70*100 *175	80*120 *185	150*100 *185	200*145 *205	200*145 *205	
Weight kg	110kg	120kg	160kg	195kg	265kg	395kg	615kg	1220kg	1400kg	
Power max AC 380V 50HZ	7kW	9kW	12kW	17kW	28kW	41kW	65kW	101kW	136kW	
Case material	Cold rolled sheet spray									
Optional Power	220V 60HZ three phase , 440V ~ 460V 60HZ three phase									