

Chiller



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Universal chiller

It is an integrated type design and does not require an air-cooled circulation device of a cooling tower. It is also specially designed for the needs of high-quality analytical instruments that can provide constant temperature, constant current, and constant pressure. Cooling water equipment, widely used in laboratory precision instruments and experiments that require cold sources.



Product Features

- Humanized design: easy to install and debug, and easier for users to operate;
- The medium-sized general circulating cooling water adopts the top-out air design, and the heat exchange effect is good;
- The main water channel of the chiller cools the laser, the auxiliary water channel cools the optical part, and the dual pump and dual temperature control, All-in-one model design, complete types and specifications, for users to choose. The small general circulating cooling water machine adopts the forward air design, which is convenient for cleaning and maintenance. Multiple safety protections such as water shortage protection, temperature protection, water pressure protection and overheating and overcurrent protection. A variety of communication interfaces (RS232/RS485/USB) are optional to meet different customer needs. The whole machine can realize the input and output of various analog quantities (0-10v or 4-20mA) and switch quantities. To achieve remote control of the chiller, status query and control of other external components by the chiller.

Technical Parameters

Model	HLS-0710	HLS-0712	HLS-0716	HLS-1322	HLS-1327	HLS-2536	HLS-2552	
Item No	1039001001	1039002001	1039003001	1039004001	1039005001	1039006001	1039007001	
Type	Small	Small	Small	Small	Small	Medium	Medium	
Power	220V50HZ	220V50HZ	220V50HZ	220V50HZ	220V50HZ	220V50HZ	220V50HZ	
Cooling capacity	1000W	1200W	1600W	2200W	2700W	3600W	5200W	
The refrigerant	R22	R22	R22	R22	R22	R22	R22	
Compressor	type	Rotor compressor	Rotor compressor	Rotor compressor	Rotor compressor	Rotor compressor	Rotor compressor	
	Input power	0.32kw	0.55kw	0.55kw	0.7kw	0.9kw	1.7kw	
The refrigerant	type	R22	R22	R22	R22	R22	R22	
	Control mode	finned	finned	finned	finned	finned	finned	
Condenser	Type	Stainless steel coil						
	Flow m ² /h	480	560	560	850	1260	1460	3200
Evaporator	Tank capacity	7L	13L	13L	13L	13L	25L	25L
	Control type							
Temp control system	Temperature range	5-35°C	5-35°C	5-35°C	5-35°C	5-35°C	5-35°C	5-35°C
	Temp accuracy	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
	Temp display	LCD	LCD	LCD	LCD	LCD	LCD	LCD
Water pump	Type	Centrifuge pump	Diaphragm pump	Diaphragm pump	Vane pump	Vane pump	Centrifuge pump	Centrifuge pump
	Power	65W	100W	110W	370W	550W	370W	370W
	Rated pressure	1.5bar	1.5bar	1.5bar	4bar	4bar	2.4bar	2.4bar
	Rated lift	15m	15m	15m	40m	40m	24m	24m
	Rated flow	7L/min	4L/min	4.5L/min	7.5L/min	17L/min	28L/min	28L/min
	Max pressure	2bar	4bar	4.2bar	20bar	20bar	30bar	30bar
Inlet and outlet pipe diameter	DN15	DN15	DN15	DN15	DN15	DN15	DN15	
Total power	470w	500w	650w	930w	1420w	1800w	2600w	
shell material	Q235 spray	Q235 spray	Q235 spray	Q235 spray	Q235 spray	Q235 spray	Q235 spray	
Instrument size(mm)	300*500*620	400*550*670	400*550*670	400*550*670	400*550*670	500*600*920	530*710*960	
Package Size(mm)	370*570*800	470*620*850	470*620*850	470*620*850	470*620*850	580*690*1100	600*780*1140	
Instrument net weight(kg)	38	46	46	58	58	58	91	
Instrument gross weight(kg)	49	55	55	66	66	66	103	

High precision chiller

High-precision chiller is a high-end model specially designed for the needs of high-quality analytical instruments, mainly used in atomic absorption spectrometers, spectrometers, mass spectrometers, scanning electron microscopes, lens electron microscopes, Soxhlet extractors, diffusion pumps, diffusion pumps, molecular pumps, Started nitrogen blowing instrument, ion thinning instrument, Bolier transform mass spectrometer (FIS), magnetron sputtering instrument, small vacuum



HLS-1312F/HLS-1316F/
HLS-1322F/HLS-1330F



HLS-2536F/HLS-2552F



HLS-0710F

Product Features

- High-performance circulating water pump, the pressure of the circulating pump is infinitely adjustable;
- Removable dustproof net cover, maintenance is very convenient, user operation is easier, installation and debugging are more convenient and quick. Refrigeration function and circulation function can be controlled independently or at the same time. Proportional refrigeration technology, hot gas bypass technology, PID control technology combined, high temperature control accuracy;
- Multiple safety protections such as temperature protection, water pressure protection, overheating and overcurrent protection to ensure experimental safety. A variety of operation modes are optional, and the accidental power failure can be automatically restored, which can ensure the continuous supply of cooling circulating water. Imported compressors and ultra-quiet fans are used to make the whole machine work with very low noise, especially suitable for laboratory environments.

Technical Parameters

Model	HLS-0710F	HLS-1312F	HLS-1316F	HLS-1322F	HLS-1330F	HLS-2536F	HLS-2552
Item No	1039008001	1039009001	1039010001	1039011001	1039012001	1039013001	1039007001
Type	Small	Small	Small	Small	Small	Medium	Medium
Power	220V50HZ	220V50HZ	220V50HZ	220V50HZ	220V50HZ	220V50HZ	220V50HZ
Cooling capacity	1000W	1200W	1600W	2200W	3000W	3600W	5200W
The refrigerant	R22	R22	R22	R22	R22	R22	R22
Compressor	type	Rotor compressor	Rotor compressor	Rotor compressor	Rotor compressor	Rotor compressor	Rotor compressor
	Input power	0.32kw	0.45kw	0.55kw	0.7kw	0.9kw	1.3kw
The refrigerant	type	R22	R22	R22	R22	R22	R22
	Control mode	finned	finned	finned	finned	finned	finned
Condenser	Type	Shaded Pole Motor	Shaded Pole Motor	Shaded Pole Motor	Shaded Pole Motor	Shaded Pole Motor	Shaded Pole Motor
	Flow m2/h	480	560	560	850	1260	3200
Evaporator	Type	Stainless steel coil					
	Tank capacity	7L	7L	7L	13L	13L	25L
	Flow m2/h	-	-	-	-	-	-
Temp control system	Control type						
	Temp range	5-35°C	5-35°C	5-35°C	5-35°C	5-35°C	5-35°C
	Temp accuracy	1°C	1°C	1°C	1°C	1°C	1°C
	Temp display	LCD	LCD	LCD	LCD	LCD	LCD
Water pump	type	centrifugal pump	centrifugal pump	centrifugal pump	centrifugal pump	centrifugal pump	centrifugal pump
	Power	65W	100W	100W	100W	370W	550W
	preset pressure	0.8bar	1bar	1bar	2.4bar	2.4bar	2.4bar
	Rated lift	17L/min	22L/min	22L/min	28L/min	28L/min	28L/min
	Limited Data						
Inlet and outlet pipe diameter	DN15	DN15	DN15	DN15	DN15	DN15	DN15
Total power	470w	500w	650w	930w	1420w	1800w	2600w
shell material	Q235 spray	Q235 spray	Q235 spray	Q235 spray	Q235 spray	Q235 spray	Q235 spray
Instrument size(mm)	300*500*620	400*550*670	400*550*670	400*550*670	400*550*670	500*600*920	530*710*960
Package Size(mm)	370*570*800	470*620*850	470*620*850	470*620*850	470*620*850	580*690*1100	600*780*1140
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