

Explosion-proof cryogenic coolant circulator

The JH series Explosion-proof cryogenic coolant circulator, whose design and manufacture can provide industry-leading technical indicators and reliability, is a high-precision and high-stability cooling equipment. It provides models with different cooling output, which are used in various laboratories and production fields to meet different cooling and constant temperature requirements. JH series adopts non-start-stop refrigeration technology, combined with PID temperature control, fast cooling, stable temperature, very suitable for some equipment requiring precise constant temperature cooling.

1. Explosion-proof cryogenic coolant circulator Introduction

The Explosion-proof cryogenic coolant circulator is a kind of water cooling equipment, which can provide constant temperature, constant current and constant pressure cooling water equipment. Its working principle is to first inject a certain amount of water into the water tank in the machine, cool the water through the refrigeration system, and then send the low-temperature chilled water to the equipment that needs to be cooled by the water pump. The chilled water takes away the heat of the equipment that needs to be cooled and the temperature rises. The high is sealed and returned to the water tank to achieve the cooling effect. The cooling water temperature can be automatically adjusted according to requirements, and long-term use can save water. Therefore, the chiller is also a standard energy saving and environmental protection equipment. The operation of the chiller system is through three interrelated systems: the refrigerant circulation system, the water circulation system, and the electrical automatic control system.

2. Explosion-proof cryogenic coolant circulator Parameter

Explosion-proof cryogenic coolant circulator	Instrument name and model:		Explosion-proof cryogenic coolant circulator JH-600					
	temperature range:		5~35℃					
	Temperature control accuracy:		±0.1℃					
	Different water temperature	5℃	10℃	15℃	20℃	25℃	30℃	35℃
	Cooling capacity W:	420	510	550	605	620	670	750
	Water tank volume:		5 L					
	heating power:		Bypass					

Cycle pressure:	0~0.8bar
Circulating flow rate:	0~15L/min
Interface size (NPT):	1/2"
Instrument weight:	39kg
Whole machine power consumption:	290W
Dimensions (mm):	290W × 550D × 540H
Standard adapter:	Pagoda head with 8mm and 10mm outer diameter
Power requirements (V/HZ/A)	220V/50HZ/10A
RS485 communication interface:	Optional (additional charge)
Water circuit on-off signal output interface:	Optional (additional charge)

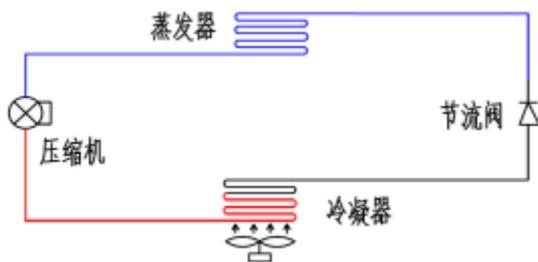
3. Features of Explosion-proof cryogenic coolant circulator

Professionally designed dynamic temperature control system with high temperature control accuracy and small temperature fluctuations; simple and convenient man-machine interface, automatic memory of control parameters; various refrigeration power and circulating pump pressure, which can meet the cooling and constant temperature of various instruments; refrigeration The key components of the system adopt imported famous brand products, which are stable and reliable; a variety of circulating pumps, optional ultra-quiet, high pressure or large flow, equipped with stainless steel pressure indicator; standard stainless steel interface, can be equipped with various specifications of joints and hoses, external Closed loop; optional power failure recovery function, optional flow alarm.

4. Refrigerant circulation system:

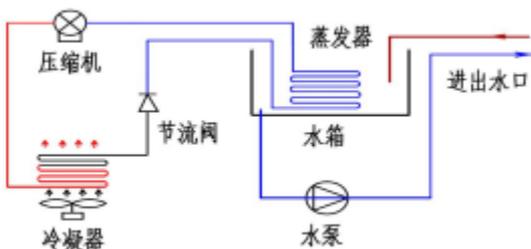
The liquid refrigerant in the evaporator absorbs the heat in the water and starts to evaporate. Eventually, a certain temperature difference is formed between the refrigerant and the water. The liquid refrigerant is also completely evaporated and becomes gaseous, then sucked by the compressor and compressed (pressure and temperature increase), The gaseous refrigerant absorbs heat through the condenser (air-cooled/water-cooled), condenses into a liquid, throttling through the thermal expansion valve (or capillary), and turns into a low-temperature and low-pressure refrigerant to enter the evaporator, completing the refrigerant cycle process.

5. The schematic diagram of the four basic pieces:



6. water circulatory system:

The water circulation system is a water pump that pumps water from the water tank to the user's equipment that needs to be cooled. The chilled water takes away the heat and the temperature rises, and then returns to the chilled water tank. The working principle diagram of the chiller is as follows:



7. Product Qualification

Jiahang Product has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

8. Deliver,Shipping And Serving

We have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

9. FAQ

How many years have your company made Explosion-proof cryogenic coolant circulator ?

22 years of scientific instrument manufacturer, laboratory solution provider!

Which certificate do you have for your products?

Jiahang has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

Will you will attend the fair to show your products?

Yes, Every year we will participate in some internationally renowned exhibitions to launch our new products, such as Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and so on,we are looking forward to your visit.

How about your company's R&D strength

Possess strong R&D technical capabilities (a R&D team of more than 20 people, with an average degree of doctorate degree, graduated from well-known universities at home and abroad, with an average work experience of 8 years), able to deal with and solve product-related technical problems

If OEM is acceptable?

Provide OEM customization service, product built-in software has autonomy, can customize development settings

Are you a trading company or a manufacturer?

100% manufacturer, no middlemen and distributors make the price difference, the price of the source factory is very advantageous; Jiahang is headquartered in Shanghai, China, has 15 service outlets and 2 production plants in China, and has sales in more than 10 countries overseas proxy.

How about your delivery time?

"Generally, it will take 7 to 15 working days after receiving your advance payment. Depend on the quantity."

Which payment can be acceptable ?

We could accept the payment by L/C, TF, Paypal , Western Union,etc.

Service

We could provide Online instruction ; Real-time support by video-ca or voice-chat.

Any customer who cooperates for the first time promises to provide a production cost price trial opportunity to solve your worries about product quality problems.



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Provide official product quality assurance documents that comply with legal benefits to escort you with worry-free after-sales service.