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Cryogenic coolant circulation pump

A cryogenic coolant circulation pump is a mechanically refrigerated cryogenic liquid circulation device that provides cryogenic liquids and cryogenic water baths. Combined with rotary evaporators, vacuum freeze dryers, circulating water vacuum pumps, magnetic stirrers, and other instruments, it enables multifunctional low-temperature chemical reaction operations and drug storage.

5L Cryogenic Coolant Circulation Pump

Product Features:

1. Original fully enclosed compressor from an internationally renowned manufacturer, advanced performance, and reliable quality.

2. Refrigeration unit uses imported, high-quality relays, protectors, capacitors, etc., ensuring reliability and long service life.

3. Digital temperature control, simple and easy to use.

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4. Multiple functions: can provide high-quality low-temperature cooling water, low-temperature non-freezing liquids, and a small low-temperature water bath. It can also be combined with circulating water multi-purpose vacuum pumps, vacuum freeze dryers, rotary evaporators, magnetic stirrers, etc., for multi-functional low-temperature chemical reactions and drug storage. It can be used with various large-scale precision equipment to overcome difficulties caused by poor cooling water, excessively high temperatures, or unstable water pressure that render valuable instruments unusable.

5. Specially designed for China's 220V 50Hz mains power conditions, avoiding malfunctions and difficulties caused by using a 110V, 60Hz design in China.

6. The circulation system is made of stainless steel, providing corrosion resistance, rust prevention, and protection against low-temperature liquid contamination.

7. For large, expensive experimental equipment such as high-purity metal and rare substance purification equipment, environmental laboratories, magnetron sputtering equipment, and vacuum coating equipment, this machine can provide cooling water that meets both temperature and water quality requirements. It

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features energy saving, water saving, pollution prevention, and scale prevention, effectively protecting large precision instruments and equipment.

8. This machine integrates circulating cooling water, has a compact size, and a reasonable power configuration, fully demonstrating its space-saving characteristics.

9. It meets various usage conditions.

Product Parameter Table	
Model Volume (L)	DLSB-5L/-30℃
Cooling Capacity (kW)	
Temperature Control Range (°C)	5
Temperature Control Accuracy (°C)	0.875-0.275
Flow Rate (L/min)	Ambient temperature～-30℃
Head (M)	
Optimal Ambient Temperature (°C)	±1
Storage Tank Dimensions (mm)	15
Power (kW)	6
Power Supply (V/Hz)	5-25
Model Volume (L)	φ220×180

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Dimensions (mm)	480*350*680
	PT100
Sensor	Uses imported fully enclosed compressor
Refrigeration Mechanism	R22
Refrigerant	Fully enclosed, leak-free special pump
Circulation Pump	#4
Inlet/Outlet Oil Nozzles	Digital display
Temperature Control Method	Leakage current circuit breaker, overload circuit breaker, overload relay holding circuit, chiller protection timer, circulating pump thermal protector, chiller high pressure switch, temperature regulation self-diagnostic function.
Safety Protection	Copper
Condensate Coil	Stainless Steel
Reservoir Material	Cold Plate Electrostatic Powder Coating

Detailed images


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