

Низкотемпературные циркуляционные насосы для охлаждения

Технические характеристики

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Low-temperature cooling circulation pumps, also known as cooling water circulation units, are suitable for cooling rotary evaporators, atomic absorption thermostats, extraction separations, reflux condensers, and as a cooling source for equipment that uses heat exchangers for heat dissipation, such as double-walled grinding vessels, cooling incubators, laboratory reactors, and cooling coils. They are easy to use and simple to understand, and feature a timer function and power-off memory. They can be connected to various interfaces, eliminating the need to worry about interfacing with supporting equipment.



[Low temperature cooling circulation pump \(cooling circulating water machine\) DLK](#)

Product Introduction

The DLK low-temperature cooling circulation pump (cooling water circulation unit) utilizes environmentally friendly refrigerants and imported components for stable and reliable performance. It utilizes a computer-controlled, PID-based automatic control system. It provides users with a controlled, uniform, and constant temperature liquid environment, meeting the temperature requirements of experiments or calibrations. It can also serve as a heat or cold source to control the temperature of external loads.

temperature water bath products are widely used in research departments, colleges and universities, enterprise quality inspection and production departments in petroleum, chemical industry, electronic instrumentation, physics, chemistry, bioengineering, medicine and health, life science, light industry and food, physical property testing and chemical analysis.

Features

- Clear 7-inch touch screen with bevel design, showing temperature, time and other parameters, clearly visible from a distance

Environmentally friendly system uses environmentally friendly refrigerants

- Timing working time function, stop working after finishing

Quiet fully enclosed imported compressor (Panasonic and Taikang), the refrigeration system is quiet

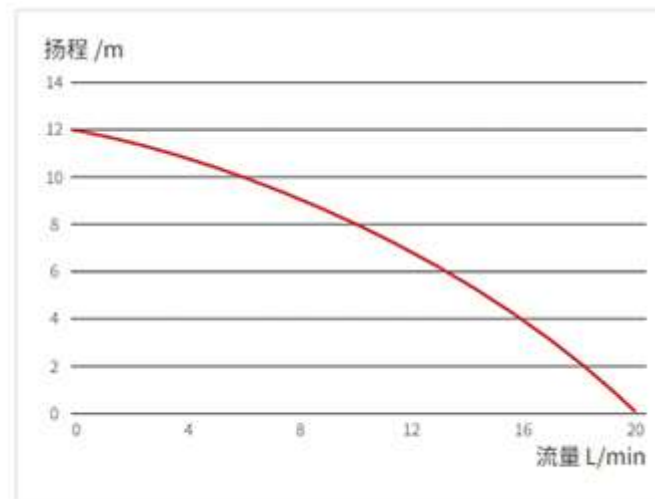
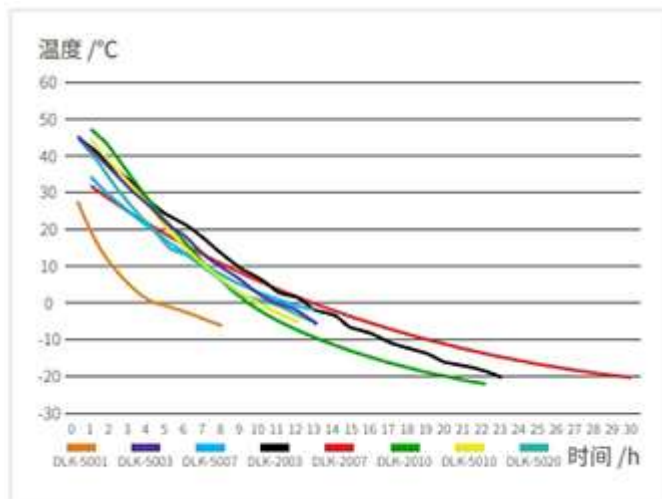
Wide range of internal and external circulation switchable, high pump pressure, suitable for experiments with different needs

Compact design, saving laboratory space

- Safety refrigeration compressor has automatic protection functions such as overheating and overload

- The parameters remain unchanged after power failure, and the customer can set the power-on state to start and standby

Cooling curve/Pump pressure flow curve



注: 降温曲线基于环境温度26°C, 加液量80%, 液体介质为乙醇测试所得数据。

Application Areas

型号	DLK-5001	DLK-2003 DLK-5003	DLK-2003 DLK-5003	DLK-2007 DLK-5007	DLK-5007 DLK-5010	DLK-5010	DLK-5020
冷凝器数量	2	4	6	8	12	18	24

Extraction

Used in laboratory quality control, determining fat content and extractable substances in foods, animal feed, etc., for use in the feed, animal nutrition, and dairy industries.

No cooling water is consumed during extraction and the condensation temperature is always repeatable, regardless of ambient or seasonal temperature fluctuations.

型号	DLK-5001	DLK-5003	DLK-5007	DLK-5007	DLK-5010	DLK-5020	DLK-5030
烧瓶尺寸	0.5~1升	2升	2升	4升		20升	50升
旋转式蒸发器数量	1	2	3~4	1	2	1~2	1

Evaporation and condensation

are commonly used in synthetic chemistry, organic chemistry, scale-up laboratories, or in R&D laboratories in pharmaceutical, chemical, cosmetic, and nutritional chemistry.

Evaporation and concentration do not require water consumption and are highly efficient even at cooling temperatures as low as 10°C.

Independent of external conditions, cooling and temperature control of 1 to 4 rotary evaporators at an evaporation temperature of 40°C.

型号	DLK-5007
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Atomic absorption

spectrometer Atomic absorption spectrometer is an extremely important spectroscopic analysis instrument in the field of analytical chemistry, widely used in the metallurgical industry, food safety, environmental monitoring and other fields.

Provide cooling circulating water for atomic absorption graphite furnace system and oxygen-enriched flame burner.

model		DLK-5001	DLK-2002	DLK-5003	DLK-2003	DLK-5007	DLK-2007	DLK-5010	DLK-2010	DLK-5020	DLK-2020	DLK-5030	DLK-2030
Cooling temperature range (°C)		-5~45	-20~45	-5~45	-20~45	-5~45	-25~45	-5~45	-25~45	-5~45	-25~45	-5~45	-25~45
Display resolution (°C)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Temperature control accuracy (°C)		±2	±2	±2	±2	±2	±2	±2	±2	±2	±2	±2	±2
Filling volume (L)		0.9	2	3	3	7	7	10	10	20	20	30	30
Cooling capacity	45°C/kW	/	/	0.76	0.76	1.36	1.8	2.6	2.8	4.5	4.5	6.4	6.4
	25°C/kW	0.35	0.55	0.63	0.63	1.27	1.6	2.1	2.4	3.8	4.1	5.8	5.8
	20°C/kW	0.3	0.53	0.58	0.56	1.15	1.5	2	2.1	3.4	3.8	5.4	5.4
	15°C/kW	0.25	0.5	0.55	0.51	1.05	1.43	1.75	1.9	2.8	3.1	4.8	4.8
	10°C/kW	0.2	0.48	0.5	0.45	0.9	1.3	1.5	1.7	2.2	2.7	4.2	4.2
	5°C/kW	0.18	0.44	0.45	0.41	0.82	1.18	1.15	1.4	1.7	2.3	3.7	3.7
	0°C/kW	0.15	0.43	0.39	0.37	0.65	1.05	0.9	1.3	1.35	1.8	3	3.1

	-5°C/kW	0.1	0.39	0.28	0.33	0.5	0.94	0.7	1.2	1.05	1.6	/	2.5
	-10°C/kW	/	0.36	/	0.27	/	0.75	/	1	/	1.3	/	1.9
	-15°C/kW	/	0.29	/	0.2	/	0.6	/	0.8	/	1.1	/	1.7
	-20°C/kW	/	0.23	/	0.15	/	0.4	/	0.6	/	0.9	/	1.5
Circulation pump	Maximum flow rate (L/min)	20	20	20	20	20	20	20	20	20	20	20	20
	Maximum pump pressure (bar)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Nozzle size		G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread	G1/2 thread
Noise (dB)		≤55	≤63	≤57	≤57	≤60	≤60	≤62	≤62	≤65	≤65	≤70	≤70
Weight (kg)		18	32	29	29	35.5	35.5	46	46	64	64	122	122
Overall dimensions L/W/H (mm)		260*340*300	222*450*505	390*423*44	390*423*445	390*410*630	390*410*630	430*470*820	430*470*820	447*553*960	447*553*960	557*675*193	557*675*193
				5									
Total power (kW)		0.2	0.43	0.55	0.55	0.65	0.9	0.77	1.1	1.2	1.8	2.4	2.7
power supply	220V/50Hz~1												

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