

Temp. control -25°C~5°C

Color Touch Screen Large touch screen Curved form shows real-time temp. changes

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1						SP			8
						供液温度		0.00	-
						回液温度		0.0.0	
1						环境温度		0.00	50
						冷却水温度		0.00	5
					_	或杆机油油		0.0.0	1000
						螺杆机排气		0.0.0	~
						螺杆机回气		0.00	1.
-						一级回气温	S.	0.00	
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Low temp. does not absorb water in the air Ensure the purity of the medium



Self-diagnosis of security functions Timely alarms are displayed

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## Wide Temp. Control

Medium-sized single-fluid temp. control Temp. control range -150 ~-5



Automatic control, temp. curve display Support temp. record U disk export

Brand Compressor Adopt brand compressor, Expansion valve combined with control to ensure stable temperature



Circulating Pump With magnetic pump, no mechanical shaft seal Solve the problem of circulating pump leakage





## **Typical Applications**

High pressure reactor cold source Double glass reactor cold source Double layer reactor cold source Microchannel reactor cold source Small cold source low temperature Distillation system low temperature Low temp. weathering test of materials Combined chemical cold source Semiconductor equipment cooling Vacuum chamber refrigeration



Plate Heat Exchanger Heat exchanger to improve the heat exchange efficiency per unit area



Temperature Control Continuously adjust PID parameters Gives better control over temperature and response time



Communication Interface Standard PT100

USB interface RS485 Optional Various analog interfaces Ethernet interface



## **LC Series**

Model	LC12W	LC20W	LC30W	LC40W	LC60W	LC80W	LC120W	LC180W	LC240W	LC360W	
Temp. Range	-25°C~-5°C										
Cooling Capacity At -20°C	12kW	20kW	30kW	40kW	60kW	80kW	120kW	180kW	240kW	360kW	
	10320 Kcal/h	17200 Kcal/h	25800 Kcal/h	34400 Kcal/h	51600 Kcal/h	68800 Kcal/h	103200 Kcal/h	154800 Kcal/h	206400 Kcal/h	309600 Kcal/h	
Circulation Pump Info	6.6m³/h 1.2bar	9m³/h 1.2bar	15m³/h 2.5bar	15m³/h 2.5bar	25m³/h 2.5bar	25m³/h 2.5bar	25m³/h 2.5bar	/	/	/	
Inlet&outlet connection size	DN-25	DN-25	DN-32	DN-32	DN-40	DN-40	DN-40	DN-50	DN-50	DN-65	
Cooling Water At 30 degree	8m <sup>3</sup> /h DN40	10m <sup>3</sup> /h DN40	16m <sup>3</sup> /h DN50	20m <sup>3</sup> /h DN65	25m <sup>3</sup> /h DN65	30m <sup>3</sup> /h DN80	38m <sup>3</sup> /h DN80	55m <sup>3</sup> /h DN100	70m <sup>3</sup> /h DN125	100m³/h DN150	
Cold Storage tank (optional)	150L	200L	250L	350L	500L	600L	750L	/	/	/	
Expansion tank (standard)	100L	175L	250L	350L	500L	600L	750L	/	/	/	
Compressor	Emerson Copeland, Dorin semi-closed compressor, Carlyle										
Safety Protection	Plate heat exchanger										
Refrigerant	R404A /R507C										
Secondary refrigerant	Non-corrosive liquid, aqueous ethanol solution, aqueous glycol solution, etc.										
Safety Protection	High pressure protect; water supply cut-off protection; over-current protection; leakage protection; sequential and phase failure protection; High temperature protection; Sensor Failure protection etc. multi-safety protection										
Level Indicator	Adopt glass liquid level indication										
Piping material	Expansion tank, cold storage tank and circulation pipeline are all made of SUS304										
Case material	Channel steel + square tube + cold rolled plate sealing plate Spray										
Operation Panel	7-inch color touch screen display, temperature curve record										
Control System	PLC&Module										
Circulation Pump		LNEYA Mangetic Pump									
Evaporator	Co	Casing type water-cooled condenser / tube-type water-cooled condenser									
Condenser Refrigeration	AORI plate heat exchanger										
accessory	Oil separators, drying filters, mirrors, etc. use Emerson/Danfoss and other brands AC contactors, intermediate relays, circuit breakers, etc. are Schneider / ABB brand										
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Electric		•	, 0								
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Wuxi Guanya Refrigeration Technology Co., Ltd. (LNEYA) specialized in the Industrial Chiller, Industrial Refrigerator, Multi-reactor Chiller (TCU), Battery Motor / Semiconductor Temperature Testing System and Ultra-low Temperature Chiller.Used in pharmaceutical, aerospace, semiconductor, new energy automotive battery / motor and other industries.

## About Us

The company is at the advanced level in the same industry in the research and development of single-machine cascade refrigeration technology, and the research on high and low temperature rapid temp. rise and temperature technology is at the international advanced level. In particular, the high-precision temp. control of the reactor is an internationally advanced single medium control -90~+250°C continuous temperature control, and high precision linear control of the reactor material temp.



300 million Annual sales



15 years R&D experience