









Low temp. does not absorb water in the air Ensure the purity of the medium



Self-diagnosis of security functions Timely alarms are displayed



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



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



## **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



## **LJ Series**

Model	LJ6W	LJ10W	LJ15W	LJ20W	LJ30W	LJ40W	LJ60W	LJ90W	LJ120W	LJ180W
Temp. Range	-45°C~-10°C									
Cooling Capacity at -40°C	6kW	10kW	15kW	20kW	30kW	40kW	60kW	90kW	120kW	180kW
	5160 Kcal/h	8600 Kcal/h	12900 Kcal/h	17200 Kcal/h	25800 Kcal/h	34400 Kcal/h	51600 Kcal/h	77400 Kcal/h	103200 Kcal/h	154800 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	8m³/h DN40	10m³/h DN40	16m³/h DN50	20m³/h DN65	25m <sup>3</sup> /h DN65	30m <sup>3</sup> /h DN80	38m <sup>3</sup> /h DN80	55m³/h DN100	70m <sup>3</sup> /h DN125	100m³/h DN150
Expansion tank (standard)	50L	80L	150L	180L	200L	250L	400L	/	/	/
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	Casing type water-cooled condenser / tube-type water-cooled condenser									
Condenser	AORI plate heat exchanger									
Refrigeration accessory	Oil separators, drying filters, mirrors, etc. use Emerson/Danfoss and other brands									
Electric	AC contactors, intermediate relays, circuit breakers, etc. are Schneider / ABB brand									
Closed Circulation System	The whole system is a full closed circulation, there is no oil mist at high temperature and no water vapor at low temperature, pressure do not rise up when system is running. The system will supplement oil automatically at low temperature									
Dimension cm	100*150 *185	100*150 *185	200*145 *205	200*145 *205	250*145 *225	250*145 *225	300*160 *225	350*160 *205	400*160 *225	500*200 *225
Power max 380V 50HZ	12kW	21kW	30kW	40kW	60kW	70kW	100kW	127kW	167kW	270kW
dB	within 75 dB within 80 dB with						thin 90 dB			
Weight(kg)	800kg	950kg	1100kg	1350kg	1500kg	1800kg	2400kg	3100kg	3600kg	5000kg
Throttle type	Electronic expansion valve									
36-2	Licensine expansion valve									



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