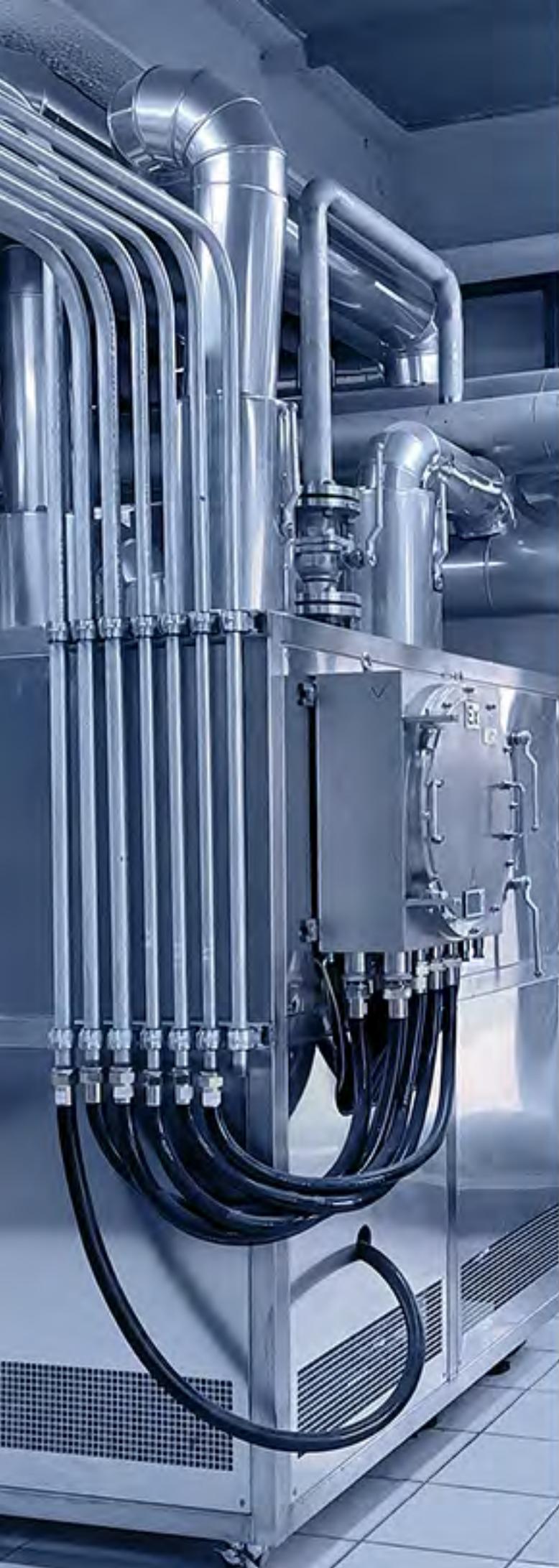




LNEYA®

Cooling Heating Temp. Control Systems SUNDI-8 Series





Closed Circulation System

Reduce heat transfer fluid demand
and improve heat utilization



Security Alert Functions

Various safety protection devices
and self-diagnosis functions



Wide Temp Control Range

Cooling heating integrated machine
Temp range: -150 ~ 350°C



Curved Temp Control

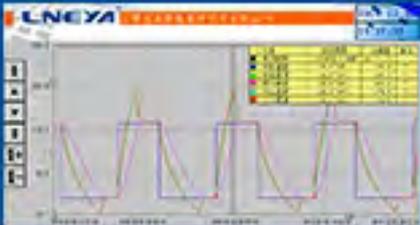
Precise control of reaction
material temperature

Typical Applications

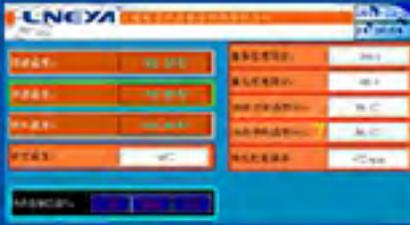


High Pressure Reactors
 Double Glass Reactors
 Double Reactors, Jacket Reactors
 Micro-channel Reactors
 Small Thermostatic Control Systems
 Distillation and Extraction Systems
 Material High & Low Temp Aging Test
 Combined Chemical Temp Control
 Semiconductor Equipment
 Vacuum Chamber

Color Touch Screen:
 Large size
 Curve display
 Real-time changes



Temp Control Mode
 Material & outlet temp
 Free choice mode
 Temp difference can be set



Circulating Pump
 Magnetic pump
 No mechanical shaft seal



Heat Exchange System
 Plate heat exchanger and duct heater to improve heat exchange efficiency



Temperature Control
 Continuously adjust PID parameters for better control and response time.



Temperature Control
 Continuously adjust PID parameters for better control and response time.



SUNDI-8系列

Model	SUNDI-825W	SUNDI-835W	SUNDI-855W	SUNDI-875W	SUNDI-8A10W	SUNDI-8A15W	SUNDI-8A25W	SUNDI-8A38W	SUNDI-8A60W	SUNDI-8A80W	
Temp range	-80°C~+250°C										
Control Mode	Feedback PID + Our special dynamic control calculation, PLC controller										
Temp control	Process temp. control and jacket temp control model										
Temp difference	Set or control the temperature difference between jacket oil and raw material process										
Program Editor	5 programs, each program can edit 40 steps										
Communication Portocol	MODBUS RTU Protocol,RS485 interface										
Material temp feedback	PT100 OR 4~20mA or communication normal: PT100)										
Temp feedback	The temp of three points: the inlet and outlet of equipment,reactor material temp.										
Medium temp accuracy	± 0.5°C										
Material temp accuracy	± 1°C										
Heating power kW	3	3.5	5.5	7.5	10	15	25	38	60	80	
Cooling capacity kW at	250°C	2.5	3.5	5.5	7.5	10	15	25	38	60	80
	20°C	2.5	2.6	5.5	7.5	10	15	25	38	60	80
	-60°C	1	1.4	1.6	3	3.5	5.8	10	16	23	32
	-75°C	0.3	0.42	0.7	1.3	1.5	2.4	5	8	11	16
Circulation pump max L/min bar	20	35	35	50	60	110	150	250	400	400	
	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	2.5	2.5	
Compressor	Emerson copeland / scroll compressor										
Throttle type	Thermal expansion valve										
Evaporator	Plate heat exchanger										
Operation Panel	7-inch touch screen, show temp. curve / EXCEL data output										
Safety protection	Self-diagnosis function; freezer overload protection; high pressure switch, overload relay, thermal protection device, high temperature protection and temp fault protection										
Closed circulation system	The whole system is full closed circulation, there is no oil mist at high temp and no water vapor at low temp, pressure do not rise up when system is running. The system will supply oil automatically at low temp										
Refrigerant	R-404A、R508B										
Connection size	G1/2	G3/4	G3/4	G1	G1	G1	DN32	DN40	DN65	DN65	
Water-cooled type W (AT 20°C)	900L/H 1.5~4bar G1/2	1200L/H 1.5~4bar G3/4	1800L/H 1.5~4bar G3/4	2300L/H 1.5~4bar G3/4	3200L/H 1.5~4bar G1	4500L/H 1.5~4bar G1 1/8	8m³/h 1.5~4bar DN40	12m³/h 1.5~4bar DN50	20m³/h 1.5~4bar DN65	30m³/h 1.5~4bar DN80	
Dimension(W) cm	45*70 *160	55*70 *175	55*70 *175	65*85 *190	75*85 *195	75*85 *195	150*100 *185	200*145 *205	250*145 *225	300*160 *225	
Weight kg	240	285	345	500	600	950	1300	1550	2200	2850	
Power MAX 380V 50HZ	7kW	9kW	12kW	17kW	22kW	33kW	54kW	85kW	134kW	177kW	
Case material	Cold rolled steel powder coating (standard color 7035)										
Optional	Optional power 100V 50HZ single-phase, 110V 60HZ single-phase, 230V 60HZ single-phase, 220V 60HZ three-phase,440V~460V 60HZ three-phase										



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 $-90\sim+250^{\circ}\text{C}$ continuous temperature control, and high precision linear control of the reactor material temp.



300 million
Annual sales



15 years
R&D experience