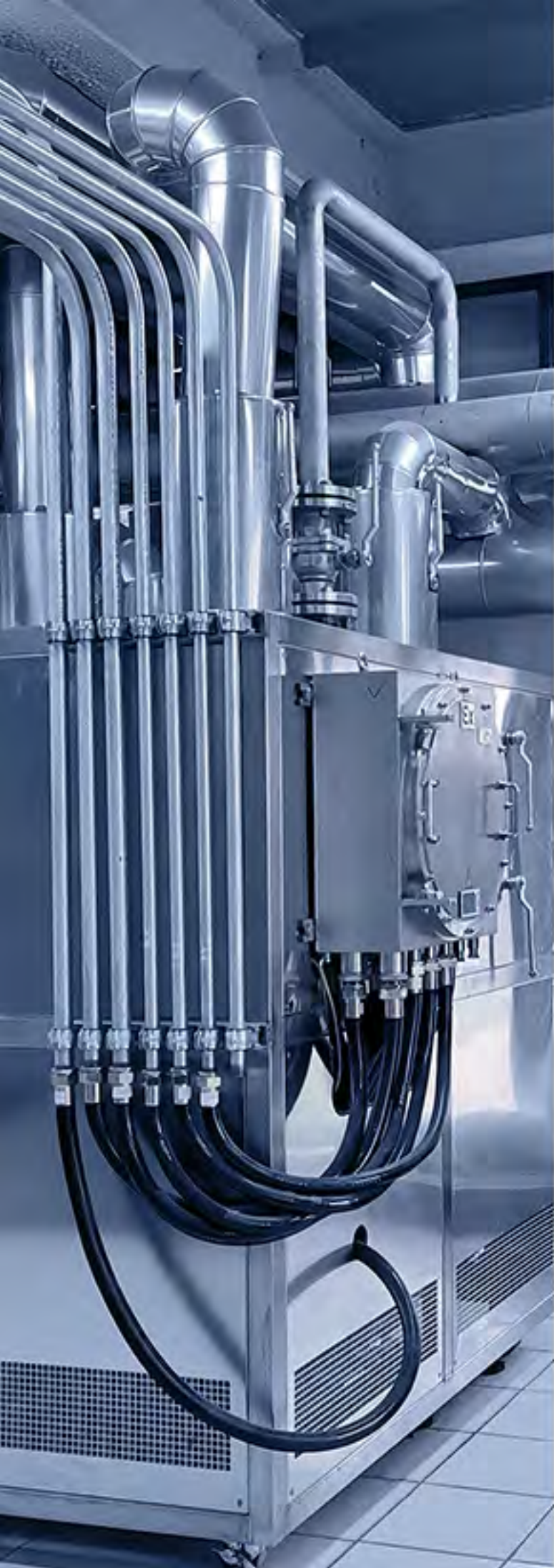




LNEYA®

**Cooling Heating
Temp. Control
Systems
SUNDI-2 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

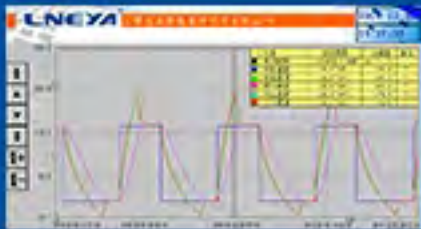
Precise control of reaction
material temperature

Typical Applications

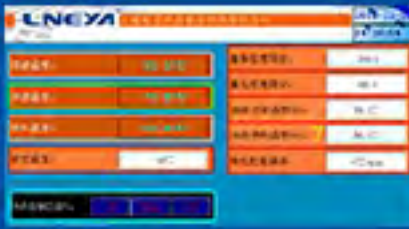


High Pressure Reactors
 Double Glass Reactors
 Double Reactors, Jacket Reactors
 Micro-channel Reactors
 Small Thermostatic Control Systems
 Distillation and Extraction Systems
 Material High & Low Temp Aging Test
 Combined Chemical Temp Control
 Semiconductor Equipment
 Vacuum Chamber

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-2系列

Model	SUNDI-225W*	SUNDI-235W*	SUNDI-255W*	SUNDI-275W*	SUNDI-2A10W*	SUNDI-2A15W*	SUNDI-2A25W	SUNDI-2A38W	SUNDI-2A60W	SUNDI-2A95W	SUNDI-2A130W	
Temp range	-25℃~+200℃											
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℃											
Material temp accuracy	± 1℃											
Heating power kW	2.5	3.5	5.5	7.5	10	15	25	38	60	95	130	
Cooling capacity kW at	200℃	2.5	3.5	5.5	7.5	10	15	25	38	60	95	130
	20℃	2.5	3.5	5.5	7.5	10	15	25	38	60	95	130
	-5℃	2	3	4.5	6.6	8	12	19	30	46	70	80
	-20℃	1	1.8	2.8	3.8	4.6	7	12	16	22	32	43
Circulation pump max L/min bar	20	35	35	50	60	110	150	200	250	400	400	
	1	1.2	1.2	1.2	1.2	1.5	1.5	1.5	2.5	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、R507C											
Connection size	G1/2	G3/4	G3/4	G1	G1	G1	DN32	DN40	DN50	DN65	DN65	
Water-cooled type W (AT 20℃)	600L/H 1.5~4bar G3/8	800L/H 1.5~4bar G1/2	1000L/H 1.5~4bar G3/4	1200L/H 1.5~4bar G3/4	1600L/H 1.5~4bar G3/4	2200L/H 1.5~4bar G3/4	6m³/h 1.5~4bar DN32	10m³/h 1.5~4bar DN40	14m³/h 1.5~4bar DN50	20m³/h 1.5~4bar DN65	28m³/h 1.5~4bar DN65	
Dimension(W) cm	40*70 *130	45*70 *160	45*70 *160	55*70 *175	55*70 *175	65*85 *190	80*120 *185	80*120 *185	150*100 *185	200*145 *205	250*145 *225	
Weight kg	115	165	185	230	280	300	550	750	1000	1250	1580	
Power MAX 380V 50HZ	AC220V 4kW	6kW	8kW	11kW	14kW	21kW	35kW	54kW	81kW	126kW	165kW	
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											

SUNDI-2系列

Model	SUNDI-225WV*	SUNDI-235WV*	SUNDI-255WV*	SUNDI-275WV*	SUNDI-2A10WV*	SUNDI-2A15WV*	SUNDI-2A25WV	SUNDI-2A38WV	SUNDI-2A60WV	SUNDI-2A95WV	SUNDI-2A130WV	
Temp range	-25℃~+300℃											
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℃											
Material temp accuracy	± 1℃											
Heating power kW	2.5	3.5	5.5	7.5	10	15	25	38	60	95	130	
Cooling capacity kW at	300℃	2.5	3.5	5.5	7.5	10	15	25	38	60	95	130
	20℃	2.5	3.5	5.5	7.5	10	15	25	38	60	95	130
	-5℃	2	3	4.5	6.6	8	12	19	30	46	70	80
	-20℃	1	1.8	2.8	3.8	4.6	7	12	16	22	32	43
Circulation pump max L/min bar	20	35	35	50	60	110	150	150	250	400	400	
	1	1.2	1.2	1.2	1.2	1.5	1.5	1.5	2.5	2.5	2.5	
Compressor	Emerson copeland / scroll compressor											
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Dimension(W) cm	40*70 *130	45*70 *160	55*70 *175	55*70 *175	65*85 *190	65*85 *190	80*120 *185	100*150 *185	100*150 *185	200*145 *205	250*145 *225	
Weight kg	130	180	195	260	320	390	620	820	1100	1350	1680	
Power MAX 380V 50HZ	AC220V 4kW	6kW	8kW	11kW	14kW	22kW	35kW	54kW	81kW	126kW	165kW	
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