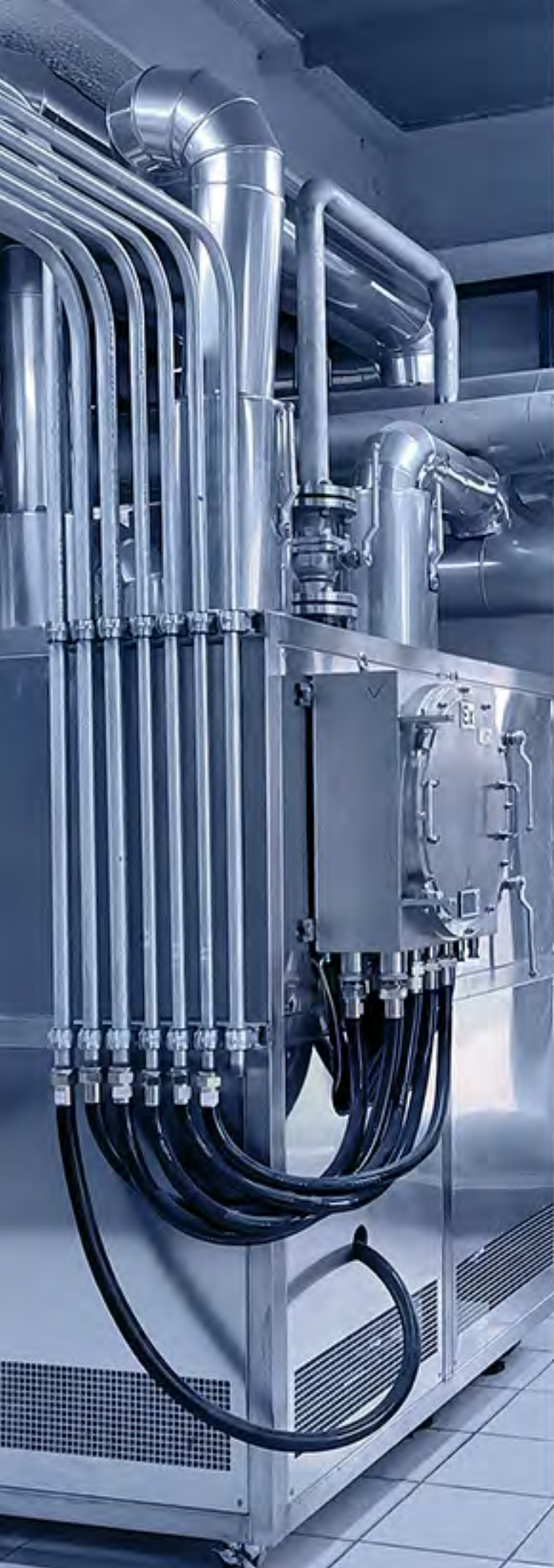




LNEYA[®]

Cooling Heating Temp. Control Systems SUNDI-1 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

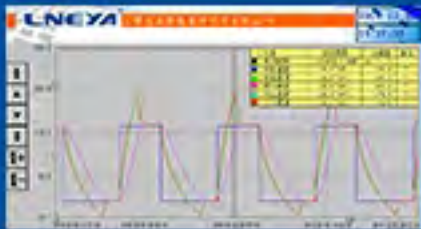
Precise control of reaction
material temperature

Typical Applications

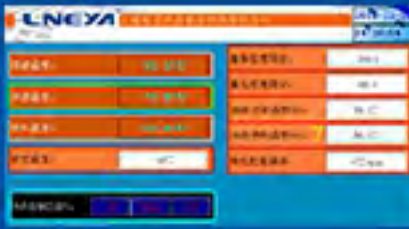


High Pressure Reactors
 Double Glass Reactors
 Double Reactors, Jacket Reactors
 Micro-channel Reactors
 Small Thermostatic Control Systems
 Distillation and Extraction Systems
 Material High & Low Temp Aging Test
 Combined Chemical Temp Control
 Semiconductor Equipment
 Vacuum Chamber

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
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SUNDI-1系列

Model	SUNDI-125W*	SUNDI-135W*	SUNDI-155W*	SUNDI-175W*	SUNDI-1A10W*	SUNDI-1A15W*	
Temp range	-10℃~+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	
Cooling capacity kW at	200℃	2.5	3.5	5.5	7.5	10	15
	20℃	2.5	3.5	5.5	7.5	10	15
	-5℃	1.5	2.1	3.3	4.2	6	9
Circulation pump max L/min bar	20	35	35	50	50	75	
	1	1	1	1.2	1.2	1.2	
Compressor	Highly/Panasonic		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-410A						
Connection size	G1/2	G3/4	G3/4	G1	G1	G1	
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	2000L/H 1.5~4Bar G3/4	
Dimension(W) cm	40*68*130	48*68*160	50*85*130	55*100*175	55*100*175	58*80*185	
Dimension cm	40*68*130	48*68*160	55*100*175	55*100*175	70*100*175	58*80*185	
Weight kg	115	165	185	235	280	300	
Power MAX 380V 50HZ	220V 50HZ 3.6kW	5.6kW	7.5kW	10kW	13kW	20kW	
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