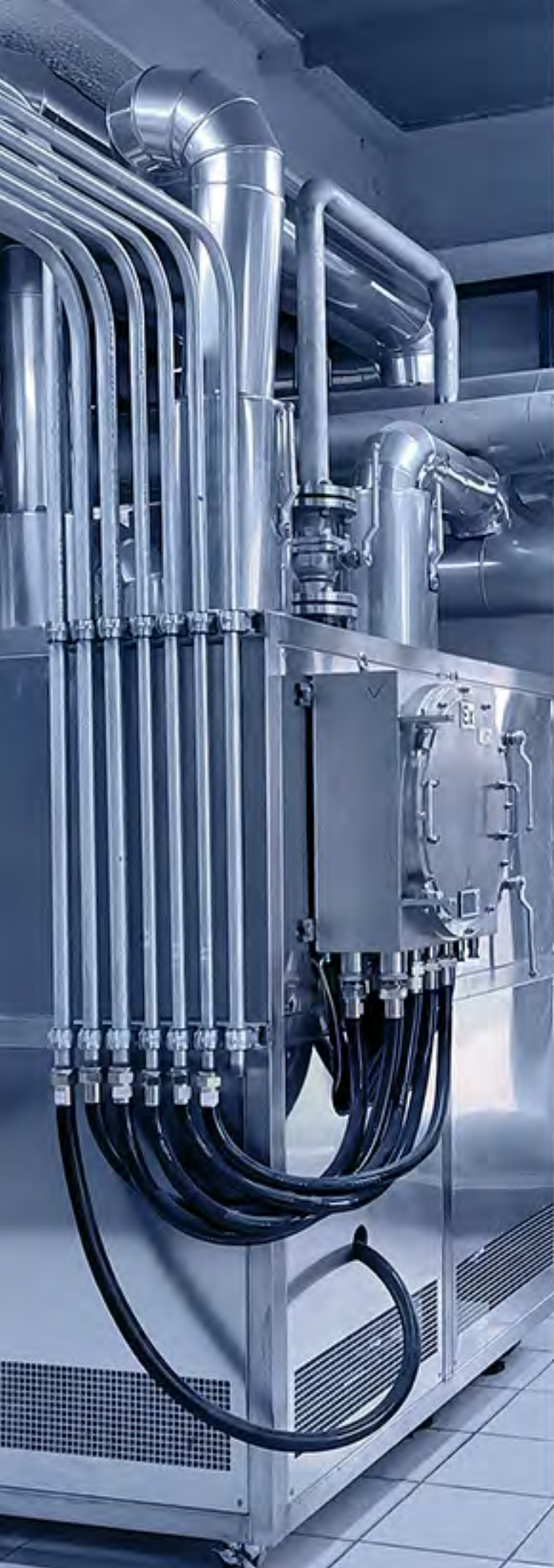




**LNEYA®**

**Cooling Heating  
Temp. Control  
Systems  
SUNDI-6 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

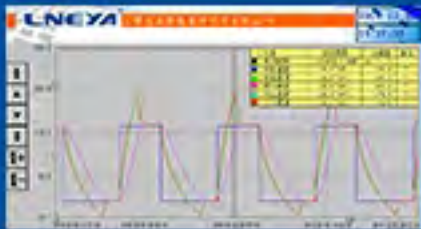
Precise control of reaction  
material temperature

# Typical Applications

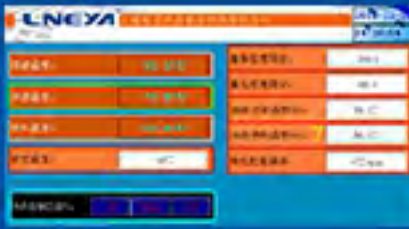


High Pressure Reactors  
 Double Glass Reactors  
 Double Reactors, Jacket Reactors  
 Micro-channel Reactors  
 Small Thermostatic Control Systems  
 Distillation and Extraction Systems  
 Material High & Low Temp Aging Test  
 Combined Chemical Temp Control  
 Semiconductor Equipment  
 Vacuum Chamber

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-6系列

Model	SUNDI-625W*	SUNDI-635W*	SUNDI-655W*	SUNDI-675W*	SUNDI-6A10W*	SUNDI-6A15W	SUNDI-6A25W	SUNDI-6A38W	SUNDI-6A60W	
Temp range	-60°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	2.5	3.5	5.5	7.5	10	15	25	38	60	
Cooling capacity kW at	250°C	2.5	3.5	5.5	7.5	10	15	25	38	60
	20°C	2.5	3.5	5.5	7.5	10	15	25	38	60
	-40°C	0.95	1.45	2.3	3.1	4.8	7.8	18	23	31
	-55°C	0.25	0.5	0.75	0.9	1.5	2.8	6	8	11
Circulation pump max L/min bar	20	35	35	50	60	110	150	200	250	
	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	2.5	
Compressor	Tecumseh / 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	
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	2100L/H 1.5~4bar G3/4	3000L/H 1.5~4bar G1	4000L/H 1.5~4bar G1 1/8	8.5m³/h 1.5~4bar DN40	14m³/h 1.5~4bar DN50	20m³/h 1.5~4bar DN65	
Dimension(W) cm	45*70 *160	45*70 *160	55*70 *175	55*85 *190	65*85 *190	70*85 *195	150*100 *185	150*100 *185	200*145 *205	
Weight kg	205	225	300	340	380	380	980	1350	1580	
Power MAX 380V 50HZ	5kW	7.5kW	11kW	14kW	19kW	26.5kW	49kW	73kW	108kW	
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