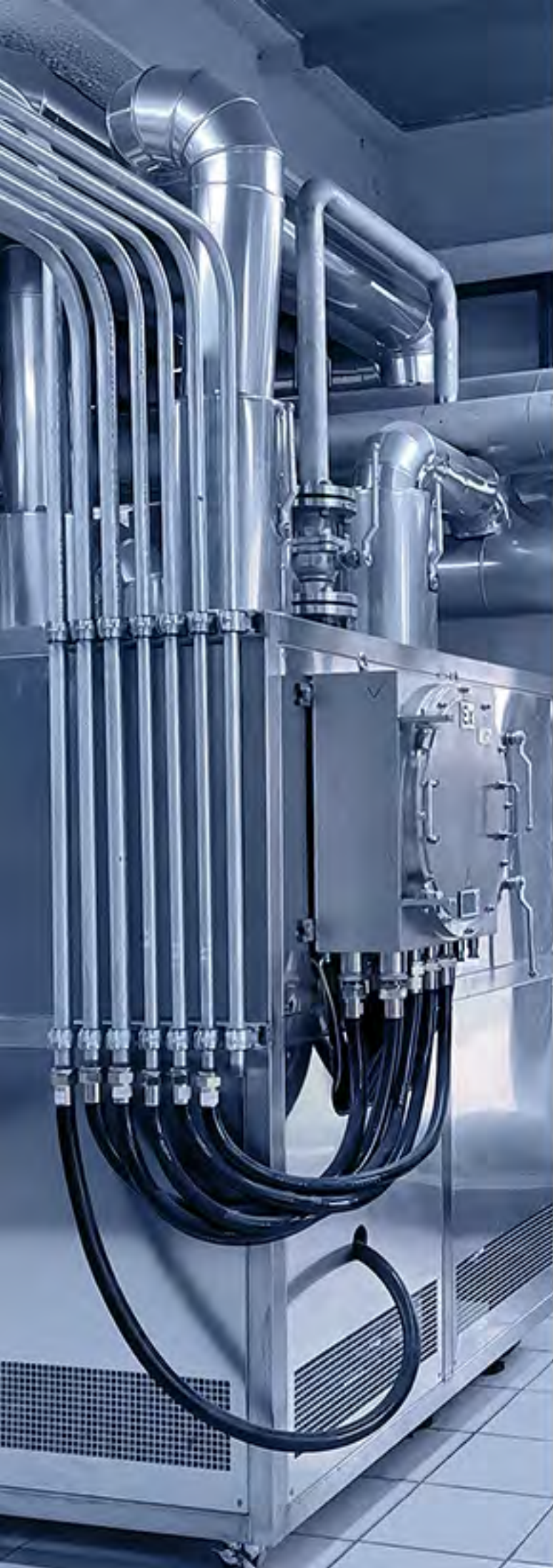




Cooling Heating Temp. Control Systems SUNDI-10 Series





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

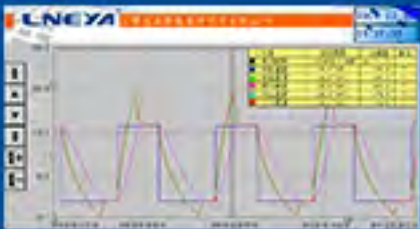
Precise control of reaction
material temperature



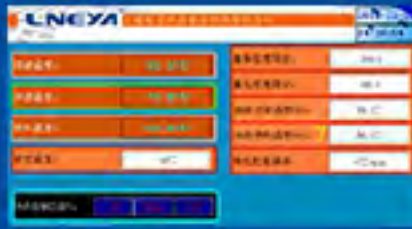
Typical Applications

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
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SUNDI-10系列

Model		SUNDI-1035W	SUNDI-1055W	SUNDI-1075W	SUNDI-10A10W	SUNDI-10A15W	SUNDI-10A25W	SUNDI-10A38W	SUNDI-10A60W	SUNDI-10A80W
Temp range		-100℃~+100℃								
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		3.5	5.5	7.5	10	15	25	38	60	80
Cooling capacity kW at	100℃	3.5	5.5	7.5	10	15	25	38	60	80
	0℃	3.5	5.5	7.5	10	15	25	38	60	80
	-80℃	1.9	2.8	3.4	4.1	5	8	13	22	30
	-90℃	0.7	1.2	1.6	2	3	4.8	7.5	12	16
	-95℃	0.45	0.7	0.9	1.2	1.8	2.9	4.5	7.2	9.5
Circulation pump max L/min bar		35	35	50	60	110	150	250	400	400
		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、R23、R14								
Connection size		G3/4	G3/4	G1	G1	DN32	DN32	DN40	DN65	DN65
Water-cooled type W (AT 20℃)		2400L/H 1.5~4bar G3/4	3400L/H 1.5~4bar G1	4000L/H 1.5~4bar G1	5000L/H 1.5~4bar G1 1/8	12m³/h 1.5~4bar DN50	20m³/h 1.5~4bar DN65	30m³/h 1.5~4bar DN65	40m³/h 1.5~4bar DN80	50m³/h 1.5~4bar DN100
Dimension(W) cm		65*85 *190	80*120 *185	80*120 *185	150*100 *185	150*100 *185	200*145 *205	250*160 *225	300*160 *225	400*160 *225
Weight kg		435	565	705	890	1250	1600	2100	2950	3350
Power MAX 380V 50HZ		12kW	18kW	24kW	30kW	40kW	60kW	85kW	135kW	200kW
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