



# SJIALAB



Your Freeze Drying Solutions



Ningbo SJIALAB Instrument Co., Ltd. is a young and innovative experimental instrument and equipment manufacturing and sales department composed of high-level talents. Comprehensive development enterprise.

SJIALAB freeze dryers are designed according to the specific size and technology requirements of each customer. SJIALAB is your single-source supplier of robust, flexible and cost-effective freeze drying equipment solutions that maximise operational reliability and productivity.

To provide customers with cost-effective products in the service concept we have been implementing, ready to provide users with the best technical support and the most complete after-sales service. Cost-effective products and high-quality services are widely used not only in domestic universities and research laboratories, but also have been sold to more than 20 countries, Europe, and Southeast Asia, and are widely praised.







# N Series laboratory freeze dryer

Refrigeration uses Linde-hampson, the world's leading technology, with a refrigeratory (secondary cooling by refrigeration), high refrigeration efficiency;

The use of environmentally friendly refrigerants (absolutely does not contain the refrigerants banned by the state, some manufacturers still use the mixed refrigerant scheme with the ratio of R12 and R22 banned by the state);

Using 7-inch touch screen, the display is intuitive and easy to operate, without defining the inexplicable button selection.

Support freeze-drying data curve recording function.

The requirement of cold trap temperature can be set when the vacuum pump starts, so as to avoid starting the vacuum pump when the cold trap temperature does not reach the effective low-temperature water catching performance, resulting in water entering the vacuum pump.

With an additional set of sensors, it can be used to measure sample temperature and record data.

Temperature and vacuum have correction function.  
Switching unit with vacuum pressure display, supporting Mbar (millibar), Pa (Pascal), Torr (Toll).

Free upgrade of electric defrosting function



10N



12N



18N

# Technical Data

Model	SJIA-10N (Desktop)	SJIA-12N	SJIA-18N
No-load temperature	<-60° C, (-80° C -110° C optional)	<-60° C, (-80° C -110° C optional)	<-60° C, (-80° C -110° C optional)
No-load freeze area	0.09-0.12m <sup>2</sup>	0.09-0.18m <sup>2</sup>	0.09-0.27m <sup>2</sup>
Plate load materials	0.7-1.5L	0.7-2L	2-3.5L
Ability to capture water	4Kg/24h	4Kg/24h	6Kg/24h
Vaccum	<10Pa	<10Pa	<10Pa
Dimension	420 x680x460mm	420×550×700mm	830 x 530 x 900mm
Consuming wattage	1000VA	1000VA	1300VA
Voltage	220V 50HZ /110V 60Hz	220V 50HZ /110V 60Hz	220V 50HZ /110V 60Hz



# Technical Data

Model	SJIA-5FE
Drying Area (m <sup>2</sup> )	0.1
Shelf layers	1
Shelf temperature range (°C)	-50°C to 60°C
Cold trap temperature	≤-50°C
Water capacity	2kg/24h
Vacuum	≤10Pa
Cooling	Air cooling, RT < 25°C
Size (mm)	880*660*550
Weight	100Kg
Voltage	220v 50hz/110V 60hz

• SJIA PLC controller special designed for freeze dryer, 20 programs, each program can be divided into 40 sections of program

## **SJIA-5FE** **(electric heating)**

· Freeze dryer program parameters can be modified during operation, and record the final drying curves;



# Technical Data

Model	SJIA-5F
Drying Area (m <sup>2</sup> )	0.1
Shelf layers	1
Shelf temperature range (°C)	-50°C to 60°C
Tray size	280*400mm
Cold trap temperature	≤-50°C
Water capacity	2kg/24h
Vacuum	≤10Pa
Power	1100W
Size (mm)	880*660*550
Weight	80Kg
Voltage	220v 50hz/110V 60hz

▪ Square tray is not easily deformed, easy to operate, easy to clean;

▪ Can be configured inflation valve, disposable dry inert gas;

▪ With vacuum seal; the LCD display shelf temperature and cold trap curve.



**SJIA-5F**  
**(silicone oil heating)**

# Pilot Series (silicone heating)

## Freeze Drying

Pre-freeze dried in situ, high transmittance plexiglass viewing window

LCD display, PID control, the drying curve;

Square tray is not easily deformed, easy to operate, easy to clean;

Can be configured inflation valve, disposable dry insert gas;

With tamponade, vacuum seal;

The LCD: shelf temperature curve, the cold trap temperature curve,

Sample temperature curve, the curve of the degree of vacuum and the composite curve,

16 programs can be stored,

Shelf temperature differences  $\pm 1^{\circ} \text{C}$ , dry effect uniform



100F



200F



# Technical Data



Model	SJIA-20F	SJIA-30F	SJIA-50F	SJIA-100F	SJIA-200F	SJIA-300F
<b>Drying area(m2)</b>	0.24	0.3	0.51	1	2	3
Water capture capability (kg/24H)	6kg	7kg	10kg	15kg	30kg	50kg
<b>Cold trap temperature (°C)</b>	<-75°C					
Vacuum(Pa)	<10pa					
<b>Tray temperature (°C)</b>	-50°Cto +70°C					
Trays number	2+1	2+1	3+1	2+1	5+1	6+1
<b>Trays size (mm)</b>	300*400	500x360	500x369	475x355	500*900	600*850
Cooling model	Air cooling (water cooling Optional)					
<b>Voltage(V)</b>	220V/50Hz			380V/50Hz		
Machine size (mm)	1050*680*1420	745*1115*1200	915*1245*1700	1100*900*1900	2100*1200*2200	4500*2300*3100
<b>N/W (kg)</b>	300kg	400kg	550kg	950kg	2400kg	4500kg
Power (W)	1.8kw	2.5kw	3.5kw	7kw	10kw	20kw

# Technical Data

Model	GZL-5	GZL-10	GZL-13	GZL-15	GZL-20	GZL-25	GZL-30	GZL-40
Shelf Area (m <sup>2</sup> )	5.4	10.2	12.96	14.4	19.73	24.59	29.6	41.86
Water Capture Ability	100	200	250	300	400	500	600	800
Shelf Size (mm)	1200*900	1250*900	1200*1200	1200*1200	1495*1200	1495*1200	1800*1495	2000*1495
Shelf Number	5+1	9+1	9+1	10+1	11+1	11+1	11+1	14+1
Machine Size (mm)	4500*2300*3100	5200*2200*3800	6500*2300*3900	6500*2300*3900	7300*3000*4200	7300*3000*4200	7600*3000*4200	8000*3200*4600
Weight (ton)	7	10	12.5	13	17.5	20	25	30

## benefits



Pre-freeze dried in situ, high transmittance plexiglass viewing window

LCD display, PID control, the drying curve;

Can be configured inflation valve, disposable dry insert gas;

With tamponade, vacuum seal;

Sample temperature curve, the curve of the degree of vacuum and the composite curve,

16 programs can be stored,

Shelf temperature differences  $\pm 1^{\circ}\text{C}$ , dry effect uniform

Freeze dryer program parameters can be modified during operation,

And record the final drying curves,

# SJIA-GLZ (pharmaceutical freeze dryer)

# Industrial Freeze Dryer

## (production)

### benefits

- Gentle drying by reducing the boiling point
- Continuous, automated process
- 0.5~200m<sup>2</sup> drying area optional
- Low product temperature
- Low loss of aroma
- High performance water solubility of end products
- Great instant product properties
- Free design and produce as your circumstances



20m<sup>2</sup>

# Technical Data

Model	SJFD-5m <sup>2</sup>	SJFD-10m <sup>2</sup>	SJFD-20m <sup>2</sup>	SJFD-25m <sup>2</sup>	SJFD-30m <sup>2</sup>	SJFD-50m <sup>2</sup>	SJFD-100m <sup>2</sup>
Dryer area (m <sup>2</sup> )	5	10	20	25	30	50	100
water-capture capability(kg/24h)	50	120	200	250	300	500	1000
Tray size(mm)	850*920	1395*395	2200*600	2200*600	3300*600	3300*600	3300*600
Trays number	7+1	11+1	8+1	10+1	8+1	13+1	17+1
Cooling	Water cooling						
Tray temperature(°C)	- 35~+100°C						
Cold trap temperature(°C)	- 45°C						
Material	Stainless Steel 304						
N/W (kg)	1500	3800	8000	9000	11000	20000	40000
Power (KW)	11	25	45	50	60	100	180



5m<sup>2</sup>







We work for your comfort.

Customer-centric, Quality-oriented, Technology-guided.

Your freeze drying solutions

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