

In-situ freeze dryer

The in-situ freeze dryer is an automatic device that has changed the tedious operation of drying in the past, prevented the contamination of materials, and realized drying and sublimation. Observe the lyophilization process of the material. It is widely used in the fields of medicine, pharmacy, biological research, chemical industry and food.

Parameters

								
HXLG-20FD		HXLG-20F		HXLG-20FT		HXLG-50F		
Model	HXLG-20FD		HXLG-20F		HXLG-20FT		HXLG-50F	
Item No	1023056001		1023058001		1023059001		1023060001	
Type	Ordinary electric heating		Silicone oil heating		Top press silicone oil heating		Silicone oil heating	
Voltage V	220		220		220		380	
Power W	3000		3000		3000		5000	
Freeze-drying area m²	0.2		0.2		0.2		0.52	
Layer size mm	400x270		400x270		400x270		450x320	
Plate spacing mm	70		70		70		70	
Layer piece(pcs)	2		2+1		2+1		4+1	
Capture water capacity kg/batch	4		4		4		10	
Vial quantity	φ12mm	1300	1300	1300	1300	3690		
	φ16mm	810	810	810	1940			
	φ22mm	430	430	430	1020			
Plate solution L	3		3		3		6	
Layer temperature range °C	-55~60(no load)		-55~60(no load)		-55~60(no load)		-55~60(no load)	
Minimum cold trap temperature °C	-70(no load)		≤-80(no load)		≤-80(no load)		-80(no load)	
Ultimate vacuum Pa	2(no load)		≤2(no load)		2(no load)		2(no load)	
Ambient temperature °C	≤25		≤25		≤25		≤25	
Exterior dimension mm	594x718x1400		1200x720x1100		594x718x1400		1100x812x1425	
Vacuum pump flow rate(L/S)	4		4		4		8	
Total Weight(kg)	200		300		350		500	



Microcomputer control
Greatly shorten the experimental operation time, improve staff efficiency



Colour touch screen
Intelligent control system, large HD display



304 stainless steel
Acid and corrosion resistant material



LCD display
Clear observation of data at a glance



Imported compressor
Powerful performance and enhanced service life



One-touch defrosting of the cold trap
Convenient for experiments

Heart of the freeze dryer

European 21CL imported compressor

Low noise, high power, strong performance, enhanced life, better refrigeration system, lower cooling temperature, more rapid cooling





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Freeze-drying Series



Desktop freeze dryer(-10 series)



Vertical freeze dryer (-12 series)



Vertical freeze dryer (-18 series)



In-situ freeze dryer



Focus on producing laboratory general instruments

Shanghai Huxi Industry Co.,Ltd

Freeze dryer

The main principle of freeze dryer is a kind of low-temperature dry firm equipment that uses sublimation to dehydrate materials, freezes water-containing materials into solids, and uses the sublimation property of water under low-temperature and low-pressure conditions to dehydrate materials at low temperature and achieve drying.tempera- ture to achieve a new drying method, suitable for biological research, medical pharmacy, chemical industry, food processing, universities and other fields for freeze-drying.

Parameters



Desktop freeze dryer
HXLG-10-50B (Standard)

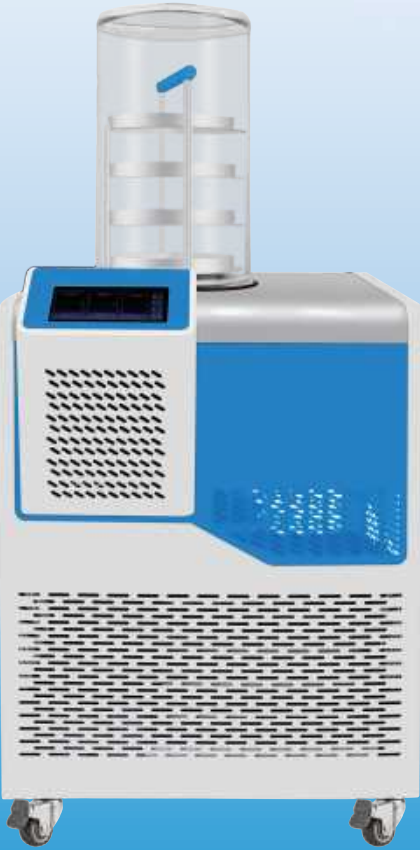
- Rapid cooling**
Uniform temperature in the inner wall of the cold trap, professional gas infusion technology, good water capture effect
- Brand compressor**
Adopt brand compressor, single-unit hybrid environ- mental protection refrigeration technology
- Pre-freezing function**
The pre-freezing function of the cold trap eliminates the need for an ultra-low temperature refrigerator or liquid nitrogen treatment
- One-touch Frosting**
The cold trap has a pre-sample independent pre- freezing function, equipped with a key defrost function
- Support USB export**
With data view, export, delete function, freeze-drying data automatically saved, can effectively prevent data loss
- Corrosion-resistant material**
Vacuum connection hose made of stainless steel for corrosion resistance, with standard KF25 vacuum clamps



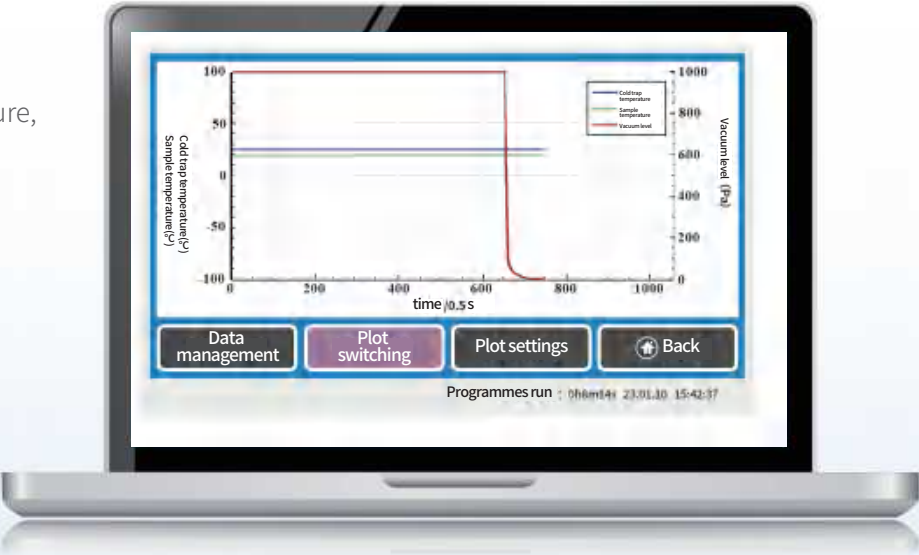
Can be connected to a computer to display data curves

View cold trap temperature, sample temperature, vacuum level, data level, vacuum level, data management, plot switching, plot settings

- Stable and durable
- Pre-freezing function
- Low energy consumption
- Powerful
- Low noise
- Easy installation



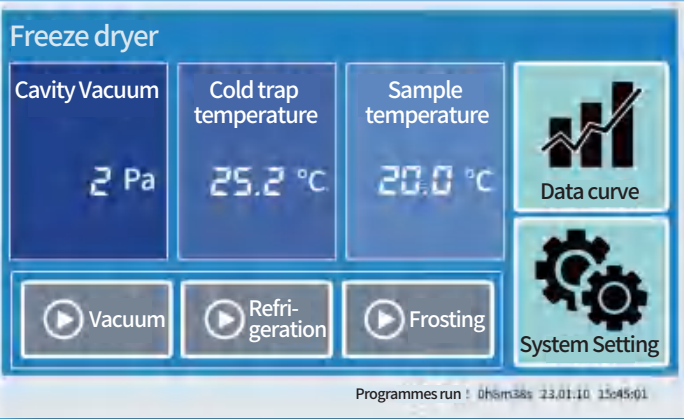
Vertical Freeze Dryer
HXLG-12-50B/HXLG-18-50B
(Standard type)



LCD screen

7-inch colour LCD touch screen, the main interface is simple and clear display cold trap temperature, vacuum degree, sample temperature, running time and other parameters, the operation is simple and direct, and also set the misoperation management privilege

- Maintenance Reminder
- Vacuum Alarm
- Intelligent Control



Vertical freeze dryer (-12 series)

Model	HXLG-12-50B	HXLG-12-50G	HXLG-12-50D	HXLG-12-50DG	HXLG-12-50T
Item No	1023071001	1023072001	1023073001	1023074001	1023075001
Type	Ordinary	Top Press	Multi-mainfold	Multi manifold top press	T type
Freeze dry area(m²)	0.12	0.08	0.12	0.08	-
Vials quantity	φ12mm	560	920	560	-
	φ16mm	480	285	285	-
	φ22mm	260	165	165	-
Cold trap temperature(°C)	-60(optional -80)				
Cold trap size(mm)	220x220	220x220	220x220	220x220	-
Capture water capacity	4kg/batch				
Attainment Vacuum degree	≤5(pa)(no load)				
Vacuum degree(pa)	2				
Sample trays	200mm total 4 layers	180mm total 4 layers	200mm total 4 layers	180mm total 4 layers	-
Power(W)	1040	1040	1040	1040	1040
NW(kg)	90(Cover accessories are not included)				
Dimension(mm)	600x558x760	600x558x760	600x558x760	600x558x760	600x558x760
Power supply	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz	AC220V 50Hz
Applicable environment(°C)	≤25	≤25	≤25	≤25	≤25
Noise (dB)	≤55	≤55	≤55	≤55	≤55
Vacuum pump options	D8C double-stage oil-sealed rotary vane vacuum pump D16C double-stage oil-sealed rotary vane vacuum pump				

Vertical freeze dryer (-18 series)

Model	HXLG-18-50B	HXLG-18-50G	HXLG-18-50D	HXLG-18-50DG
Item No	1023047001	1023044001	1023045001	1023046001
Type	Ordinary	Top Press	Multi-mainfold	Multi manifold top press
Freeze dry area(m²)	0.18	0.12	0.18	0.12
Vials quantity	φ12mm	1320	880	880
	φ16mm	698	465	465
	φ22mm	360	240	240
Cold trap temperature(°C)	-60	-60	-60	-60
Cold trap size(mm)	270x300	270x300	270x300	270x300
Capture water capacity	6	6	6	6
Attainment Vacuum degree	≤5(no load)	≤5(no load)	≤5(no load)	≤5(no load)
Vacuum degree(pa)	2	2	2	2
Sample trays	240mm total 4 layers	240mm total 4 layers	240mm total 4 layers	240mm total 4 layers
Power(W)	1300			
NW(kg)	100	106.8	107.86	108.86
Dimension(mm)	680x560x880	680x560x880	680x560x880	680x560x880
Power supply	AC220V25A50Hz	AC220V25A50Hz	AC220V25A50Hz	AC220V25A50Hz
Applicable environment(°C)	≤30	≤30	≤30	≤30
Noise (dB)	≤55	≤55	≤55	≤55
Vacuum pump options	D8C double-stage oil-sealed rotary vane vacuum pump D16C double-stage oil-sealed rotary vane vacuum pump			

Desktop freeze dryer(-10 series)

Model	HXLG-10-50B	HXLG-10-50G	HXLG-10-50D	HXLG-10-50DG	HXLG-10-50T
Item No	1023066001	1023067001	1023068001	1023069001	1023070001
Type	Ordinary	Top Press	Multi-mainfold	Multi manifold top press	T type 16 bottles
Freeze-drying area m²	0.12	0.08	0.12	0.08	-
Vial quantity	φ12mm	920	560	920	-
	φ16mm	480	285	480	-
	φ22mm	260	165	260	-
Cold trap temperature °C	-60	-60	-60	-60	-60
Cold trap size mm	220x220	220x220	220x220	220x220	-
Capture water capacity/kg/batch	4	4	4	4	4
Attainment vacuum pa	≤5(no load)	≤5(no load)	≤5(no load)	≤5(no load)	≤5(no load)
Ultimate vacuum pa	2	2	2	2	2
Sample trays	200mm total 4 layers	180mm total 3 layers	200mm total 4 layers	180mm total 3 layers	-
Whole machine power(W)	1040	1040	1040	1040	1040
Host NW(kg)	57(Cover accessories are not included)				
Exterior Dimension(mm)	625x558x480				
Power supply	AC220V 50Hz				
Applicable environment(°C)	≤25				
Noise level(dB)	≤55				
Vacuum pump options	D8C double-stage oil-sealed rotary vane vacuum pump D16C double-stage oil-sealed rotary vane vacuum pump				

Desktop/vertical freeze dryer (-10/-12/-18 series optional)

Different models to meet your different needs

