

-50°C Desktop Series



Product Description:

Vacuum freeze-drying technology, referred to as freeze-drying or sublimation drying, is widely used in the pharmaceutical, biological product, chemical, and food industries. It is highly suitable for heat-sensitive substances such as antibiotics, vaccines, blood products, enzymes, hormones, and other biological tissues.

Main Features:

- Adopts fully enclosed compressor refrigeration, with a condensation limit temperature of up to -60°C

- Cold trap temperature can be preset; the vacuum pump starts only when the temperature is lower than the preset value, effectively protecting the vacuum pump
- Independent intellectual property software operating system (with software copyright), featuring powerful functions and strong expandability
- 7-inch true-color touch LCD screen, which real-time records and displays cold trap temperature, sample temperature, and vacuum degree; data can be exported via USB
- Large cold trap opening, serving as a material pre-freezing chamber; low pre-freezing temperature facilitates rapid freezing of samples
- Cold trap is made of full stainless steel with no coils inside, featuring a smooth surface and corrosion resistance
- Equipped with an inflation valve for filling with dry nitrogen or inert gas

Technical Parameters:

Model	FD-1A-50	FD-1B-50	FD-1C-50	FD-1D-50	FD-1F-50
Specification	Ordinary Type	Stoppering Type	Bottle-Hanging Ordinary Type	Bottle-Hanging Stoppering Type	T-Type Rack
Freeze-Drying Area	0.12 m ²	0.08 m ²	0.12 m ²	0.08 m ²	--
Cold Trap Temperature	<-50°C	<-50°C	<-50°C	<-50°C	<-50°C
Limit Temperature	-60°C	-60°C	-60°C	-60°C	-60°C
Sample Tray	Ø200*4 Layers	Ø180*3 Layers	Ø200*4 Layers	Ø180*3 Layers	--

Model	FD-1A-50	FD-1B-50	FD-1C-50	FD-1D-50	FD-1F-50
(mm)					
Cold Trap Size (mm)	ø220*130	ø220*130	ø220*130	ø220*130	ø220*130
Liquid Processing Capacity	1.2L/time	0.8L/time	1.2L/time	0.8L/time	--
Distance Between Sample Trays	80mm	80mm	80mm	80mm	--
Number of Hanging Bottles	--	--	8 pcs	--	8 pcs
Solution Type	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating
Vacuum Degree	<5Pa	<5Pa	<5Pa	<5Pa	<5Pa
Water-Capturing Capacity	3kg/24h	3kg/24h	3kg/24h	3kg/24h	3kg/24h
Vacuum Pump Speed	2L/S	2L/S	2L/S	2L/S	2L/S

Model	FD-1A-50	FD-1B-50	FD-1C-50	FD-1D-50	FD-1F-50
Power	900W	900W	900W	900W	900W
Main Unit Weight	36Kg	36Kg	36Kg	36Kg	36Kg
Main Unit Size	W400×D620×H400mm	W400×D620×H400mm	W400×D620×H400mm	W400×D620×H400mm	W400×D620×H400mm
Power Supply Requirement	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)

-80°C Vertical Series



Product Description:

Vacuum freeze-drying technology, referred to as freeze-drying or sublimation drying, is widely used in the pharmaceutical, biological product, chemical, and food industries. It is highly suitable for heat-sensitive substances such as antibiotics, vaccines, blood products, enzymes, hormones, and other biological tissues.

Main Features:

- Adopts dual-compressor cascade refrigeration, with a condensation limit temperature of up to -90°C
- Cold trap temperature can be preset; the vacuum pump starts only when the temperature is lower than the preset value, effectively protecting the vacuum pump
- Independent intellectual property software operating system (with software copyright), featuring powerful functions and strong expandability
- 7-inch true-color touch LCD screen, which real-time records and displays cold trap temperature, sample temperature, and vacuum degree; data can be exported via USB
- Large cold trap opening, serving as a material pre-freezing chamber; low pre-freezing temperature facilitates rapid freezing of samples
- Cold trap is made of full stainless steel with no coils inside, featuring a smooth surface and corrosion resistance
- Equipped with an inflation valve for filling with dry nitrogen or inert gas
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Technical Parameters:

Model	FD-1A-80	FD-1B-80	FD-1C-80	FD-1D-80	FD-1F-80
Specification	Ordinary Type	Stoppering Type	Bottle-Hanging Ordinary Type	Bottle-Hanging Stoppering Type	T-Type Rack

Model	FD-1A-80	FD-1B-80	FD-1C-80	FD-1D-80	FD-1F-80
Freeze-Drying Area	0.12 m ²	0.08 m ²	0.12 m ²	0.08 m ²	--
Cold Trap Temperature	<-80°C	<-80°C	<-80°C	<-80°C	<-80°C
Limit Temperature	-90°C	-90°C	-90°C	-90°C	-90°C
Sample Tray (mm)	ø200*4 Layers	ø180*3 Layers	ø200*4 Layers	ø180*3 Layers	--
Cold Trap Size (mm)	ø240*260mm	ø240*260mm	ø240*260mm	ø240*260mm	ø240*260mm
Liquid Processing Capacity	1.2L/time	0.8L/time	1.2L/time	0.8L/time	--
Distance Between Sample Trays	80mm	80mm	80mm	80mm	--
Number of Hanging Bottles	--	--	8 pcs	--	8 pcs
Solution Type	Suitable for aqueous solutions / No	Suitable for aqueous solutions / No	Suitable for aqueous solutions / No	Suitable for aqueous solutions / No	Suitable for aqueous solutions / No

Model	FD-1A-80	FD-1B-80	FD-1C-80	FD-1D-80	FD-1F-80
	anti-corrosion coating	anti-corrosion coating	anti-corrosion coating	anti-corrosion coating	anti-corrosion coating
Vacuum Degree	<5Pa	<5Pa	<5Pa	<5Pa	<5Pa
Water-Capturing Capacity	3kg/24h	3kg/24h	3kg/24h	3kg/24h	3kg/24h
Vacuum Pump Speed	4L/S	4L/S	4L/S	4L/S	4L/S
Power	1800W	1800W	1800W	1800W	1800W
Main Unit Weight	85Kg	85Kg	85Kg	85Kg	85Kg
Main Unit Size	W480D620H910mm	W480D620H910mm	W480D620H910mm	W480D620H910mm	W480D620H910mm
Power Supply Requirement	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)	220V 50HZ (110V 60HZ optional)

-80°C Vertical Large-Capacity Series



Technical Parameters:

Model	LGJ-18A	LGJ-18B	LGJ-18C	LGJ-18D	LGJ-18F
Specification	Ordinary Type	Stoppering Type	Bottle-Hanging Ordinary Type	Bottle-Hanging Stoppering Type	T-Type Rack
Freeze-Drying Area	0.27 m²	0.11 m²	0.27 m²	0.11 m²	--
Cold Trap Temperature	<-80℃	<-80℃	<-80℃	<-80℃	<-80℃
Limit Temperature	-90℃	-90℃	-90℃	-90℃	-90℃
Sample Tray (mm)	ø240*6 Layers	ø220*3 Layers	ø240*4 Layers	ø220*3 Layers	--
Cold Trap Size (mm)	Φ280×420mm	Φ280×420mm	Φ280×420mm	Φ280×420mm	Φ280×420mm
Liquid Processing Capacity	2.7L/time	1.1L/time	2.7L/time	1.1L/time	--
Distance Between Sample Trays	60mm	80mm	60mm	80mm	--
Number of Hanging Bottles	--	--	8 pcs	--	16 pcs

Model	LGJ-18A	LGJ-18B	LGJ-18C	LGJ-18D	LGJ-18F
Solution Type	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating	Suitable for aqueous solutions / No anti-corrosion coating
Vacuum Degree	<5Pa	<5Pa	<5Pa	<5Pa	<5Pa
Water-Capturing Capacity	6kg/24h	6kg/24h	6kg/24h	6kg/24h	6kg/24h
Vacuum Pump Speed	4L/S	4L/S	4L/S	4L/S	4L/S
Power	1800W	1800W	1800W	1800W	1800W
Main Unit Weight	90Kg	90Kg	90Kg	90Kg	90Kg
Main Unit Size	W540D700H990mm	W540D700H990mm	W540D700H990mm	W540D700H990mm	W540D700H990mm
Power Supply Requirement	220V 50HZ (110V 60HZ optional)				