

## Electric-heating freeze dryer

LG1-10FD/30FD/50FD series of freeze dryers with electric heating function (patent machine). Products can be freeze dried in situ.

It changes the complex operation and prevent sample pollution, and make drying automation. These models has shelf heating and programmable functions. They can records freeze drying curves, data can be output by U-disk.

User can clearly view the freeze drying process.

### Features:

- ◆ 7 inch embedded integrated color touch-screen. PLC controlling Display drying curve.
- ◆ The machine control system can save 40 freeze-drying scheme, each scheme can be set up 40 segments of temperature parameter values.
- ◆ Shelf has refrigeration and heating function Products pre-freezing and drying process both finished in drying chamber No need of low temperature freezer, no pollution. At the same time provide guarantee conditions for automated production.
- ◆ Control system automatically records the data and generate the freeze-drying curves. With USB communication interface, experimental data can be output by a USB flash disk.
- ◆ Operating system has manual operation and automatic operation, two working modes, to improve the selectivity of freeze-drying process.
- ◆ Drying chamber door use colorless transparent organic glass, use can clearly observe the sample during the process freeze-drying.
- ◆ Unique design of vacuum air channel, condenser has better and uniform water capture capacity.
- ◆ Have password protection function, to ensure the safe and reliable operation.
- ◆ Optional charging valve, filling dry inert gas.
- ◆ Optional manifold ports for flask connection, round bottom flask and wide-neck flask.
- ◆ Optional eutectic point test functions, convenient for getting freeze-drying process of the sample.
- ◆ Optional remote monitoring and remote operation functions. convenient for use operation in different conditions rent conditions.
- ◆ Vacuum regulation device is optional.



### Technical Specifications:

Model	LGJ-10FD Standard	LGJ-10FD Top-press	LGJ-30FD Standard	LGJ-50FD Standard
Freeze-drying area	0.2 m <sup>2</sup>	0.1 m <sup>2</sup>	0.4 m <sup>2</sup>	0.6 m <sup>2</sup>
Condenser temperature	<-56°C (no-loading), option-80°C (no-loading)			
Vacuum degree	<10Pa			
Water capture capacity	3-5Kg/24h		>6Kg/24h	>10Kg/24h
Partition board size	400×270mm 2layers	400×270mm 1layers	300×340mm 4layers	300×340mm 6layers
Power	2000W		3000W	5000W
Weight	260kg		400Kg	400Kg
Dimension	750×800×1390		700×850×1230	700×850×1400
Bulk capacity Thickness:10mm	2L(Thickness:10mm)	1L(Thickness:10mm)	4L(Thickness:10mm)	6L(Thickness:10mm)
Vial loading number(pcs)	Φ12mm:1554pieces	Φ12mm:777pieces	Φ12mm:2916pieces	Φ12mm:2916pieces
	Φ16mm:868pieces	Φ16mm:434pieces	Φ16mm:1600pieces	Φ16mm:1600pieces
	Φ22mm:440pieces	Φ22mm:220pieces	Φ22mm:872pieces	Φ22mm:872pieces