

Freeze dryer application fields:

Vegetables, aquatic products and meat, seasonings, instant drinks, convenience foods, traditional Chinese medicine, materials, biology, etc.

Freeze dryer features:

1. The whole machine has a humanized design, plug and play, beautiful appearance, compact structure, and high cost performance.
2. The integrated design of the box trap and the shorter sublimation channel are conducive to the rapid sublimation of a large amount of water vapor.
3. **Original imported refrigeration compressor, large cooling capacity, high efficiency and energy saving, long service life and low noise.**
4. The aerospace-grade high-transmittance plexiglass door can observe the whole process of lyophilization changes of samples in real time.
5. Easy to operate, high degree of automation, only one button is needed to complete **the whole process of lyophilization.**
6. Preset standard freeze-drying process, no need to have an in-depth understanding of cumbersome lyophilization principles and freeze-drying processes, one-click process import.
7. Intelligent fault diagnosis technology displays fault information in text form, which greatly facilitates equipment maintenance and fault repair.
8. Security locking function. Prevent misoperation from modifying the system state and process parameters, resulting in lyophilization failure or instrument damage.
9. The intelligent energy-saving temperature control technology of the partition has high temperature control accuracy, significant energy-saving effect, and stable and reliable system.
10. **One-click fast defrost technology, safe and efficient.**
11. **Adopt PLC control system, one-button start, easy operation;**
12. The temperature and vacuum protection during the freeze-drying process ensure the normal operation of the equipment and ensure the drying effect; Optional: oil-free vacuum pump to solve oil change, oil mist, anti-corrosion and other problems;

Model	ZL-S04	ZL-S06	ZL-S10
Partition area	0.40 m ²	0.58 m ²	1.13 m ²
Cold trap temperature	$\leq -50^{\circ}\text{C} \sim -60^{\circ}\text{C}$		
Ultimate vacuum level	$\leq 5\text{Pa}$ (limit display 1pa).		
Throughput (KG/batch)	4~8	6~10	10~19
Door lock method	Handle door lock	Handle door lock	Handle door lock
Opening angle	> 110 degrees	> 110 degrees	> 110 degrees
Warehouse door material	ACRYLIC		
Insulation	Polyurethane foam + insulation		
Liquid in a tray (up to 30mm)	4L (Based on thickness 10mm)	6L (Based on thickness 10mm)	10L (Based on thickness 10mm)
Slab spacing (mm)	55	70	70
Heating method	Electric heating	Electric heating	Electric heating
power supply	220V/50HZ	220V/50HZ	380V/50HZ (optional.) 220V/50HZ
The power of the whole machine	1200w	1800w	2200W
Material Tray Size (W*L)	218*450mm	325*450mm	325*780mm
Stainless steel tray	SUS304	SUS304	SUS304
Number of layers	4 floors	4 floors	4 floors
vacuum pump	1 set	1 set	1 set
Cooling method	Air cooling: Good ventilation, room temperature $\leq 25^{\circ}\text{C}$		
Dimensions (W*D*H)	700*780*1130mm	750*780*1230mm	1000*780*1240mm