

## *LG-10 Food Type Freeze Dryer*



### Features:

- Pre-freezing and drying of separate structures are performed at the same time, which improves the freeze-drying efficiency and shortens the freeze-drying time.
- Space alloy separator material, double-sided radiation heating, emissivity above 90%, good temperature uniformity.
- Highly efficient mixed refrigerant medium, lower freezing point and higher boiling point, high heat exchange efficiency and long service life.
- The drying curve optimization control algorithm can control the heating rate and vacuum value in the drying stage.
- The patented gas diversion design and control technology have the strong ice catching ability and high drying efficiency.
- Industrial-grade embedded touch screen + dedicated SH-HPSC-III modular controller, the system is stable and reliable, with high control accuracy.
- The professionally designed FD-MANAGER control system can save multiple sets of process recipes, and can adjust the process in real time during the drying process to improve the process optimization rate.
- Flexible manual + automatic control mode, manual groping process, and automatic batch production.
- Accurate sensor calibration function ensures the accuracy of long-term use of process parameters.
- Setting user level and password, and decentralizing operations and management.
- Optional powerful LYO-MEGA main unit control system can record, save up to ten years of operating data, curves and alarm records, improve product traceability; at the same time convenient observation, operation and fault diagnosis.
- Non-standard freeze dryers can be customized as requested.

## Technical Parameters :

models parameters	unit	LG-1	LG-5	LG-10
freeze drying area	m <sup>2</sup>	1	5	10
shipping weight	kg	10	50	100
shelf numbers	layers	4+1	7+1	9+1
shelf dimensions	mm	400*625	600*1200	1000*1120
shelf spacing	mm	60	80	80
temperature range	°C	room temperature~+100°C		
ice collecting capacity	kg/B	≥15	≥75	≥150
cold trap temperature	°C	≤-60	≤-50	≤-65
cooling mode	—	wind cooled	water cooled	water cooled
defrosting mode	—	water soaked	water soaked	water soaked
ultimate vacuum	Pa	≤5Pa		
power	kw	9	20	45
dimensions (L*W*H)	mm	1900*1200*1700	2000*3500*2100	5000*2000*2500
overall weight	kg	900	2500	6000