

LG-30 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	unit	LG-15	LG-20	LG-30	LG-50	LG-100	LG-200
shelf area	m ²	16.2	20.6	31.68	52.92	105.84	209.52
shipping weight	kg	150	200	300	500	1000	2000
shelf numbers	layer	9+1	8+1	8+1	9+1	18+1	18+1
shelf dimensions	mm	1200*150 0*15	1200*215 0*15	1200*330 0*15	4900*120 0*15	4900*120 0*15	9700*120 0*15
shelf spacing	mm	80	80	80	80	80	80
cart numbers	set	1	2	2	3	3	6
temp. range	°C	normal temp.~120					
ice collecting capacity	kg/B	≥225	≥300	≥450	≥750	≥1500	≥3000
cold trap temp.	°C	≤-60	≤-60	≤-60	≤-50	≤-50	≤-50
cooling mode	-	water cooled, water temp.<30°C					
defrosting mode	-	water spraying+ soaking					
ultimate vacuum	pa	<5			<10		
power	kw	50	96	120	150	230	440
water cooled consumption	m3/h	30	40	60	80	160	300
dimensions (L*W*H)	mm	5200*180 0*3200	6200*230 0*3200	7500*230 0*3200	7000*850 0*3200	7000*110 00*3500	1200*110 00*3500
overall weight	t	6	10	16	29	46	95