

Silicon oil heating freeze dryer

LGJ-200F/300F freeze dryer use double color touch screen and PLC as control center , control system stable and reliable. it can store 33groups of freeze drying program, and each program can be set up 36 segments. It can display freeze drying curve and automatically records data.

Freeze drying data can be output by USB flask disk.This model is suitable for pilot scale and small scale production.

LGJ-200F/300F model freeze dryer, with two compressors as cascade refrigeration . condenser temperature can reach $<-75^{\circ}\text{C}$.

Samples can be frozen and drying on shelf directly.With air cooling unit, easy to install and operate.

LG0-200F/300F has two types:standard type and top press type.

Features:

- ◆ Stainless steel plates are imported, guarantee smooth finish of chamber. Ensure aseptic requirements.
- ◆ Special O type door sealing, to prevent water store up,and meet aseptic requirements.
- ◆ Shelf with high strength, pressure test can reach 0.3Mpa, durable for long time.
- ◆ Shelf by machine processing, ensure high demand of flatness.
- ◆ Shelf temperature control accuracy $\pm 0.5^{\circ}\text{C}$ (PID control,after balance).
- ◆ Chamber and shelf are tested by helium mass spectrometer for leaking test.
- ◆ Condenser and cooling tube all tested by helium mass spectrometer for leaking test.
- ◆ Compressor is Bitzer unit, with more stable and reliable performance.
- ◆ With environment friendly refrigerant.
- ◆ Refrigeration system has many interlock protection functions.
- ◆ Pressure automatic adjustment function under low load situation in later period of freeze drying.
- ◆ Oil pressure multiple protection function for refrigeration system.
- ◆ Multiple protection function for motor of compressor.
- ◆ HMI display working state of main parts, valve,temperature and vacuum degree.
- ◆ User can set 32 groups of freeze drying parameters
- ◆ Freeze drying process display segments, user can skip.
- ◆ User can adjust freeze drying parameter at any time.
- ◆ Ozone disinfection function is optional.



Technical Specifications:

Model	LGJ-200F standard	LGJ-300F standard
Freeze drying area	2.25 m ²	3.15 m ²
Condenser temperature	$<-75^{\circ}\text{C}$	
Vacuum degree	$<5\text{Pa}$	
Water capture capacity	30Kg/24h	60Kg/24h
Cooling method	Air cooling, draughty temperature $\leq 25^{\circ}\text{C}$	
Defrosting method	water soaking	
Partition board size	500×900mm 5+1layers	500×900mm 7+1layers
Power	15kw	
Weight	1200Kg	1500Kg
Dimension(mm)	1200×2100×1700	1200×2300×1700
Bulk capacity Thickness :10mm	22L Thickness :10mm	30L Thickness :10mm