

Floor Standing Freeze Dryer

LFD-FT-300 Series



Labocon offers Floor Standing Freeze Dryer LFD-FT-300 Series maximizes plant reliability and ease of use, reduces energy consumption, optimizes space requirements and minimizes maintenance requirements. The unit is a compact console with casters that make it easy to move.

Features

About Freeze-drying Unit

- Microprocessor programmable controller
- LCD color touchscreen display 7-inch size for programme setup/edit, to view/observation for drying curves with all parameters such as temperature, pressure and audio-visual alarms in real time manner
- Login facility on control panel; multilevel password protection to prevent unauthorized access
- 32 groups run-programme can be stored, each run programme can set up to 36 segments further
- Alarms & alerts :
 - **A.** Ambient temperature too high **B.** Vacuum degree abnormal
 - C.** Condenser temperature too high **D.** Shelf temperature too high
 - E.** Pre-freeze step completion and freeze-drying process completion
- Fully Internal and external construction starting from internal chamber, external chamber, condenser and coils are made from SS304 grade Stainless Steel which are fully corrosion resistant
- With USB port for data transfer
- Pre-Freezing and freeze-drying process are available on shelf itself
- Silicon oil heating for high throughput process optimization
- Clear glass windows enable clear visual monitoring for entire processes
- Defrosting: Standard Off cycle type
- With Nitrogen inflation valve
- Tray no.:5+1, spacing 50mm: (5 Trays dedicated for loading products, & top 1 shelf for temperature compensation)
- Shelf temperature can be controlled by program on touch screen,4 sensor for each
- Powerful sensor calibration functions to ensure accuracy of measured values in long-term use
- Safety control system used for shelf heating to control heating rate
- CFC and HCFC FREE Refrigeration Compressor Type of 1/3 hp capacity
- Hermetically-sealed cascade cooling system-Teflon coated; CFC/HCFC FREE
- Noise level: less than 50dB

Optional Accessories

- Anti-oil return valve for Vacuum pump
 - Air inlet filter for pump
 - Software to process and control freeze drying process in external PC
 - 8/12 Manifold Adaptor for Flask (Flask capacity: 100ml, 250ml, 500ml, 1.0L, 2.0L)
 - Standard /Chemical Hybrid Resistant Vacuum Pump with various Vacuum capacities
 - Vacuum Pirani gauge
 - Vacuum control valve
 - Intake backfilling filter
 - Eutectic point test device
 - Electricity heating defrosting
 - Exhaust filter/oil mist filter for pump
 - Automatic backfilling / drainage system
 - Check valve for pump to prevent oil sucked into chamber
 - External manifold ports to connect round bottom flasks and wide-neck flask-all size
 - RS232 and software: Check and keep freeze drying data on computer, control freeze dryer through PC
 - With inert gas inflation valve, filling the inert gas after drying can keep products for long term
- Special requirements can be customize*

Technical Specifications:

Model	Freeze dryer LFD-FT-301
Condenser Temperature	-50°C (-80°C optional)
Temperature Accuracy & Uniformity	±0.01°C
Ice Condenser capacity	6 kg/24 hours
No. of Shelves/Tray	6
Shelf/Tray Spacing	50 mm
Shelf Dimension (Width x Depth)	300x340
Overall Dimension	700x850x1400 mm
Weight	400 kg
Power	3000 W
Power Supply	380V, 50Hz

Model **Double Stage Rotary Vane
Vacuum Pump
LFD-FT-301-SVP**

<i>Pumping Speed</i>	8L/sec
<i>Rotating Speed</i>	1400RPM
<i>Final Vacuum Degree</i>	10 Pa to 1Pa max.
<i>Oil Capacity</i>	3.5L
<i>Dimension</i>	624x238x414 mm
<i>Power</i>	1100 W
<i>Power Supply</i>	380V 50HZ
<i>Weight</i>	60 kg

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