

FREEZE DRYER

IG-DFD12



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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

KEY FEATURES

- Control panel display in English
- Vacuum can be displayed in Pa or Mbar
- Condenser with uniform and good ice capture function
- The acrylic drying Chamber is safe and easy to view the sample status
- Small and compact structure, with easy and convenient operation
- Vacuum pump with high pumping speed, to reach a good final vacuum
- Color LCD touchscreen displays running time, display sample temperature, condenser temperature, vacuum degree, and save data automatically
- Display sample temperature curve, condenser temperature curve and vacuum curve
- CFC-free refrigerant, internationally famous brand compressor, low noise, good efficiency trays, drying shelf and pre-freezing shelf are made of stainless steel 304 anti-corrosion.
- The stainless-steel air inlet valve (drain valve) is safe, anti-corrosion, and has no leak with a USB port to output freeze-drying data and open and view data in Excel format.

INTRODUCTION

Freeze dryer is widely used in medicine, pharmacy, biology research, the chemical industry food production, etc. After freeze drying process, long-term preservation of material is much easier.

They can be restored to their original state and maintain their chemical and biological characteristics after being watered.

The vacuum freeze-drying technology, which is also called sublimation drying, is a technical method that freezes the samples in advance and then sublimates their moisture under a vacuum state. The model is a floor-type machine, suitable for drying products in bulk and flask and vial.

TECHNICAL PARAMETERS

- **Minimum Condenser Temperature:** -105°C
- **Final Vacuum:** <10 Pa
- **Freeze-drying area:** 0.08 meter square
- **Condenser ice capture:** 3- 4 kg/24h
- **Bulk Capacity:** 0.8 L (10 mm thickness)
- **Material Tray:** ϕ 180 mm, 3 layers, stainless steel 304
- Material of coil and condenser chamber AISI316L
- Manifold with 12 ports
- The material of the hose connecting the pump to the freeze dryer is stainless steel
- **Flask specification :** wide-mouth flask 600 ml, 900 ml, 1200 ml, each with 4 pcs With LCD touch screen, display in English
- Display temperature and vacuum degree
- Electromagnetic vacuum control valve to control the vacuum for faster drying
- With a USB port to output drying data
- With vacuum pump and connection accessory
- System leakage test
- Vacuum/performance test
- CFC-free refrigerant
- **Voltage:** 220 V/50 Hz, Single phase
- **Power:** 1900 W
- **Defrosting:** electricity heating defrosting
- **Dimension (D*W*H):** 850 x 680 x (700+460) mm



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