

PROGRAMMABLE FREEZE DRYER WITH PREFREEZING



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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.

INTRODUCTION:

The Laboratory Programmable Freeze Dryer is designed for a wide range of applications in medicine, pharmaceuticals, biology research, chemical industries, and food production. Freeze drying helps to preserve materials for the long term by maintaining their chemical and biological characteristics after being rehydrated.

Vacuum Freeze-Drying Technology (also known as sublimation drying) freezes samples in advance and removes moisture under vacuum. This model is ideal for bulk product drying and vial drying, including various foods such as fruits, vegetables, milk, meat, seafood, and health products.

IG-FD-10PF	Standard type / Top press type
Optional Parameters	<ol style="list-style-type: none"> 1. 4 pcs of Manifold ports (with 4 rubber valves and 4 flasks) 2. Oil-free scroll pump 3. Condenser -70°C 4. tray, vacuum pump, pump connection tube, clamp, rubber valve and flask

MAIN FEATURES:

- Collector Temperature: - 85°C (-121°F)
- Conformance: CE Certified
- Plug Type: India
- Style: Benchtop
- Temperature ramp and hold programming from -55°C) to +50°C (-67°F to +122°F) and -75°C) (-103°F) during pre-freezing
- Controls temperature to $\pm 1^{\circ}\text{C}$ of set point
- Memory to store 30 programs with 16 segments each including:
 - Number of steps
 - Ramp rate
 - Shelf temperature
 - Hold time
 - Vacuum level
- Full color, 7" capacitive touchscreen with Lyo-Works™ OS
- Real-time display of collector temperature and vacuum level
- Manual start-up buttons for collector and shelf temperature control
- Data logging in table or graph format with export via USB or Ethernet
- Vacuum pump maintenance alert
- Security lock-out feature
- Pneumatic stoppering mechanism with diaphragm and plate (No compressed gas required)
- Stoppering control knob and vacuum release control knob
- Four left side-mounted neoprene valves accommodating 1/2" and 3/4" flask adapters
- USB port and Ethernet connection
- Hot gas defrosts with stainless steel drain pan and silicone drain hose
- Vacuum control valve and vacuum break valve
- Stainless steel and powder-coated steel exterior
- Clear acrylic door, 1" thick, with silicone gasket and latch
- 3/4" OD vacuum connection with 36" long, 3/4" ID vacuum hose
- Language support (English)

TECHNICAL PARAMETERS:

Parameter	Specification
Collector Temperature	-85°C (-121°F)
Temperature Range	(-55°C to +50°C) (-67°F to +122°F)
Pre-Freezing Temperature	(-75°C)(-103°F)
Temperature Control Accuracy	±1°C
Program Memory	100 programs with 36 segments each
Display	7" Capacitive Touchscreen (Lyo-WorksTM OS)
Data Logging	USB port
Stoppering Mechanism	Pneumatic Stoppering Mechanism available
Valve Compatibility	1/2" and 3/4" Flask Adapters
Vacuum Pump Requirement	120 L/min, 0.002 mBar Ultimate Pressure
Vacuum Connection	3/4" OD, 36" long Hose
Exterior	Stainless Steel & Powder-Coated Steel
Door Material	1" Thick Clear Acrylic with Gasket
Electrical Configuration	Region-Specific Plug Configurations
Defrost System	Hot gas defrosting
Language Support	English



CONNECT WITH US.

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