

LYOPHILIZER

IG-FD15H



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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.

IG-LZ SERIES LYOPHILIZERS

The Lyophilizer is a high-performance freeze-drying system designed for efficient sublimation of moisture from biological, chemical, and pharmaceutical samples. Built with superior-grade stainless steel components and advanced vacuum technology, it ensures high drying performance, precision temperature control, and long-term reliability. Equipped with automated programming, hybrid vacuum pumps, and CFC/HCFC-free refrigeration, it offers consistent results for both primary and secondary drying processes. The system supports compatibility with multi-port manifolds for versatile sample handling and includes comprehensive documentation and certification compliance.

KEY FEATURES

- **High Capacity & Performance:** Ice condenser capacity of 9 kg with drying performance of 6 kg in 24 hours.
- **Efficient Condensation System:** Operates at ice condenser temperature of -86°C at ambient 25°C .
- **Eco-friendly Refrigeration:** CFC/HCFC-free system with two compressors for reliable performance.
- **Durable Construction:** SS 316L condenser coils
- **Defrost System:** Automatic hot gas defrost for efficient ice removal.
- **Vacuum System:** Chemical-resistant hybrid vacuum pump achieving ultimate pressure ≤ 0.005 mBar, monitored by a Pirani gauge sensor.
- **Vacuum Control Valve:** Enables faster drying through controlled vacuum adjustments.
- **Temperature Measurement:** In-process temperature measurement capability for precise monitoring.
- **Automated Operation:** Programmable control for both Primary and Secondary Drying stages, with option for automatic or manual sequence operation.
- **Data Management:** Integrated documentation software with facility for data retrieval without external PC connection.
- **User Interface:** Intuitive color touch screen displaying condenser temperature, process time, vacuum, and section time.
- **Manifold Compatibility:** Works with horizontal SS manifold having 12 or 16 chemical-resistant ports; each port with a holding capacity of 2000 ml for round-bottom or wide-neck flasks.
- **Heated Shelf System:** Includes single heated shelf of 215 mm with rack and sealing device; transparent chamber for visibility.
- **Certifications:** Conforms to CE standards.
- **Accessories Supplied:**
 1. Unheated shelves (220 mm) for regular drying
 2. Spare vacuum sensor.
 3. Spare rubber joints for valves
 4. O-rings – 2 sets
 5. Gaskets – 2 sets
 6. Vacuum oil

TECHNICAL SPECIFICATION:

Parameter	Specification
Ice Condenser Capacity	9 kg
Performance	6 kg in 24 hours
Ice Condenser Temperature	-86°C at 25°C ambient
Refrigeration System	CFC/HCFC free
Compressors	Two
Condenser Coils	SS 316L
Defrost System	Automatic hot gas defrost
Vacuum Pump Type	Chemical resistant hybrid
Ultimate Vacuum Pressure	≤ 0.005 mBar
Vacuum Sensor	Pirani gauge vacuum sensor
Vacuum Control	Vacuum control valve for faster drying
Temperature Measurement	In-process product temperature measurement
Drying Control	Programmable for Primary & Secondary Drying
Operation Mode	Automatic and Manual freeze-drying sequence
Software	Documentation software with offline data retrieval
Display	Color touch screen with process parameters
Manifold Compatibility	Horizontal SS manifold with 12 or 16 chemical-resistant ports
Holding Capacity per Port	2000 ml (for round-bottom/wide-neck flasks)
Heated Shelf	Single heated shelf of 215 mm
Chamber	Transparent chamber with rack and sealing device
Testing	Leakage and performance test facility
Certification	CE certification
Accessories	Unheated shelves, Spare vacuum sensor, Rubber joints, 2 sets of O-rings & gaskets, Vacuum oil



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