

-80°C Deep Freezer



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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.

-80°C Deep Freezer

The IG-(-80DF) deep freezer is engineered for scientific research, low-temperature testing of specialized materials, and secure sample storage. Its robust design supports various fields, including scientific research, electronics, chemical industry, military, bioengineering, livestock systems, and marine sectors.

DIGITAL TEMPERATURE CONTROLLER

Temperature Control: Adjustable set point with hysteresis for precision.

Sensor Input: Supports PT100 probes.

Display & Interface: Digital LED/LCD screen with control buttons.

Control Output: Relay for compressor/heater and defrost function.

Alarm System: High/low temperature alerts, sensor fault detection, power failure and door ajar.

Power Supply: Typically 220V AC, 50Hz.

Additional Features: Parameter lock, time delay for compressor protection.

KEY FEATURES

1. Precise Temperature Control

- Micro-computer controlled with an LED/LCD screen, adjustable from -40°C to -80°C.
- Platinum resistance temperature sensor.
- High readability and easy operation.

2. Safety and Security

- Safety door lock and password-protected controller to prevent unauthorized access.
- Visual and audible alarms for high/low temperature, power failure, sensor errors, and door ajar.
- Power failure protection with a delayed restart.
- The cooling system retains the previous normal working cycle and will continue to operate based on this stored memory in the event of a controller or dual sensor failure.

3. Refrigeration System

- Equipped with a high-efficiency German SECOP compressor, EBM cooling fan, and DANFOSS dry filter and condensing system.

4. Humanized Design

- Adjustable shelves and document box for convenient storage.
- Lockable booster handles.

5. Optional Features

- Built-in backup battery supporting display and power alarms for up to 8 hours without AC power.
- Automatic LED light with manual switch.
- USB data recorder, UPS light, and SMS remote alarm capabilities.



SPECIFICATIONS

PARAMETERS	
Temperature	- 40°C TO -80°C
Insulation thickness	150 mm
Cooling type	Direct cooling
Electric protection	I/B
Refrigerant	Mixed
Consumption	9.8kW. h/24h
Power	1000 W
Power supply	220V/50Hz
Climate class	N
Alarm type	Sound/ light
Net weight	205 Kg
Gross weight	255 Kg
Optional function	Printer & recorder

ORDERING INFORMATION

Dimension	24x18x24"	24x24x24"	30x24x36"	30x24x40"	30x30x36"	30x30x54"	30x30x45"
Volume	150L	210L	400L	450L	500L	625L	760L

CONTROLLER FEATURES: MICROCOMPUTER- CONTROLLER (OPTIONAL)

- **Precise Temperature Control:** Microcomputer-controlled system with an LED/LCD display, allowing easy adjustments from -40°C to -80°C for precise monitoring.
- **High Readability & Easy Operation:** LED/LCD screen provides clear visibility and user-friendly control.
- **Comprehensive Alarm System:** Visual and audible alarms for high/low temperature, power failure, sensor errors, and door ajar to ensure safety and immediate response.
- **Power Failure Protection:** Equipped with a delayed restart feature to safeguard equipment during power outages.
- **Memory Retention:** The cooling system stores and continues the previous operating cycle, maintaining function even in the event of controller or sensor failure.
- **Optional Data & Notification Features:** Includes USB data recording, UPS light, and SMS remote alarm capabilities for remote monitoring and data security.



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