

BOD INCUBATOR



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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.

BOD INCUBATOR

The iGene Labserve BOD Incubator is specially designed for storing and cultivating fungal and bacterial cultures at temperatures of 37°C or below. These laboratory incubators, also known as Cooling Incubators or BOD Incubators, provide a reliable temperature range from 5°C to 60°C, making them versatile for a variety of laboratory applications.



KEY FEATURES

Temperature Control & Distribution

Equipped with a computerized temperature controller, each BOD Incubator ensures precise temperature regulation. The system includes an air circulation fan to distribute temperature evenly throughout the chamber, maintaining consistent conditions for sample growth. The digital PID temperature controller displays both the Set Value (SV) and Process Value (PV), providing a clear and accurate readout. Additionally, the built-in high/low-temperature alarm alerts operators if the temperature deviates from the set range.

Heating & Ventilation

The BOD Incubator generates heat using resistance wire heaters or beaded heaters, ensuring efficient temperature control. A motorized blower or axial fan is integrated into the system to maintain uniform temperature across the entire chamber, supporting optimal sample incubation.

Construction & Material

The incubator's external cabinet is constructed from a thick gauge GI sheet, which is powder-coated to increase its corrosion resistance. For applications that require compliance with GMP standards, a stainless-steel option is available. The inner chamber is made of durable 304-grade stainless steel, ensuring long-term reliability. High-density glass wool insulation is used between the inner and outer chambers to minimize heat loss, enhancing energy efficiency. The refrigerant used in the system is CFC-free, contributing to a safer environmental footprint.

Customization & Quality Assurance

iGene Lab recognizes the unique requirements of diverse users and offers customizable options to accommodate specific laboratory needs. Each unit can be equipped with a variety of accessories to support tailored applications. Every BOD Incubator undergoes a rigorous multi-stage testing process to ensure superior performance and reliability before being dispatched to customers, guaranteeing the highest standards of quality.

CONTROLLER FEATURES

Microprocessor PID Temperature Controller: Equipped with a precise microprocessor-based PID temperature controller, providing clear display of both set value (SV) and process value (PV) for accurate monitoring and control.

Over-Temperature Alarm: Includes an over-temperature alarm to alert users of any deviations, ensuring the protection of samples and maintaining safe operation within set parameters.

Auto-Tuning Function: Features an auto-tuning capability, which optimizes temperature control settings automatically for consistent performance.

Timer Functionality: The controller allows users to set operational timing, specifying how long the oven will be active, which enhances efficiency and conserves energy during scheduled use.

Password-Protected Temperature Settings: Temperature adjustments are secured with password protection, ensuring that set parameters cannot be modified without authorization, adding a layer of security to critical settings.

Optional feature: Touch screen Programmable controllers are optionally available upon request.



SPECIFICATIONS

Temperature range	5°C to 60°C
Temperature accuracy	±0.2°C @37°C
Temperature controller	Dual display PID controller Display SV & PV
	Auto tuning feature
Temperature sensor	PT100
Inner chamber	SS 304
External cabinet	Powder-coated GI sheet
Insulation	PUF Insulation
Door	Insulated door Mechanical latch/clamp Glass window
Heaters	Resistance wire heaters
Shelves	SS wire mesh (removable)
Air circulation	Motorized blower / Axial fan
Standard fittings	Mains,on/off switch Load Indicator, Fan on/off switch
Power supply	220 Volts 50Hz
Optional	- Calibration certificate
	- Data logger w/ USB
	- Interface thermal printer.
	- Inner chamber LED light.

OPTIONAL : PROGRAMMABLE TOUCH SCREEN CONTROLLER

User Profiles: Includes three user roles—Administrator, Tester, and Operator. Access is password-protected:

- o **Administrator:** Full access to all parameters and settings.
- o **Tester:** Access to all functions except for changing running parameters.
- o **Operator:** Limited access to operate and run parameters set by the Administrator.

Pre-scheduling Capability: Allows programs to be scheduled in advance, enabling automated future operations for increased efficiency and convenience.

Auto-Tuning Functions: Automatically fine-tunes control settings to optimize performance, maintaining precise environmental conditions.

Safety Alarms: Includes alarms for door status and temperature deviations from set values, providing immediate alerts to safeguard operations.

Real-Time Temperature Monitoring: Displays real-time temperature curves, ensuring constant visibility of process conditions.

Data Management and Export Options: History data can be stored, printed, and exported via a USB port. The controller can store up to 318,000 historical data entries and up to 130,000 operation dates, providing extensive record-keeping capabilities.

Optional Features:

Defrosting: Optional defrosting function to support various applications.

UV Sterilization: Optional UV feature for enhanced sterilization of the chamber.

LED Button: User-friendly touchscreen interface, equipped with an LED light button for clear visibility and ease of navigation.

Connectivity and Integration:

RS485 Modbus (RTU 9600): Supports connectivity to external devices or systems, facilitating data transfer to computers.

RS232 Interface: Allows connection to printers for on-site data printing and supports touchscreen functionality.

Programmable Timing Functions:

Timing Modes: Offers both fixed-value and program modes, with a cycle range of up to 100 programs (continuous operation if cycle count is set to 0).

Program Grouping: Supports up to 5 program groups in program mode, with each program offering up to 30 sections for flexible process control.

Timer: Programmable timer ranging from 0 to 999 hours and 59 minutes



ORDERING INFORMATION

Model no.	Size (Inches)	Volume	Shelves
IG-50IC	15 x 15 x 15	50 Liters	2
IG-95IC	18 x 18 x 18	95 Liters	3
IG-127IC	18 x 18 x 24	127 Liters	3
IG- 160IC	18 x 24 x 24	160 Liters	3
IG-226IC	24 x 24 x 24	226 Liters	3
IG-270IC	24 x 24 x 30	270 Liters	3
IG-300IC	24 x 24 x 36	324 Liters	3
IG-340IC	24 x 24 x 40	340 Liters	5
IG-500IC	24 x 28 x 48	500 Liters	7





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