



# INCUBATORS

**A reliable name for scientific equipment for Industrial,  
Laboratory, Research, Medical and Educational Establishments.**



# INDEX

1} B.O.D. Incubator

2} Dry Bath Incubator

3} Co<sub>2</sub> Incubator

4} Digital Bacteriological Incubator

# B.O.D. INCUBATOR

- We present the ultra-high-tech Triple walled Microprocessor controlled, solid-state heating/cooling incubator (BOD Incubator) down to earth.
- Specially designed for incubation of Biochemical Oxygen demand on water and sewage; can be used as environmental study and growth chamber by incorporating lighting and humidification system.
- Used in various applications for microbiology, cell cultivation of animals, plants & food studies- where experiments requiring low temperature conditions.

## SALIENT FEATURES:

- Robust construction Inner & Outer chamber complete made of Stainless Steel.
- Fitted with durable coaxial blower for forced air circulation at triple walled back to maintain temperature uniformity in the chamber.
- Door operated illumination lamp is fitted inside the chamber for easy visibility.
- A full view inner acrylic door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- High grade PUF INSULATION between outer and inner chamber for minimal thermal losses.
- Cooling is done by finned tube evaporator lie in the air circulation path by ISI marked Compressor/Condensing Units CFC free & R-134 a eco friendly refrigerant.
- Heating elements are placed in the path of moving air duly insulated from the body.
- Inner chamber has ribs for placing the shelves at convenient levels. Supplied with 2 or 3 removable shelves.
- Control panel having all controls and circuitry are housed at the top fitted with Temperature controller cum Indicator Microprocessor based with LED display for Set Value (SV) & Process Value (PV) to select any desired temperature provided with Volt meter on the panel to read the incoming voltage.
- Caster wheel mounted for easy portability.
- Supplied with cord and plug.
- Operating Voltage: 220 Volts AC (50 Hz).





# TECHNICAL SPECIFICATION & ORDERING INFORMATION Of B.O.D. Incubator



Model No.	LSI-108-BOD2	LSI-108-BOD4	LSI-108-BOD6	LSI-108-BOD10	LSI-108-BOD12	LSI-108-BOD15
Usable Space in MM	405 x 405 x 405	610 x 450 x 410	845 x 500 x 400	870 x 570 x 560	900 x 650 x 570	700 x 900 x 650
Capacity	2 cu. Ft	4 cu. ft	6 cu. ft	10 cu. ft	12 cu. ft	15 cu. ft
Approx Volume (Ltr)	60 ltrs	113 ltrs	173 ltrs	282 ltrs	342 ltr	421 ltrs
No. of Shelves	2	2	2	2	2	2
Temperature Range	5°C above ambient to 60°C (Resolution 0.1°C)					
Temp. Controller	By Microprocessor Based PID Digital Temperature Indicator cum Controller.					
Temp. Accuracy	+0.5°C					
Display	LED Display for Set Value(SV) and Process Value (PV)					
Relay	Solid state electronic relay with protective heat sink					
Auto Tuning System	System is compatible with auto tuning system					
Air Circulation	By forced convection system Insulation By High density PUF					
insulation Operations	Nearly silent operation with ultra -low vibration					
Voltage Indicator	By Digital Volt Meter fitted on Panel					
High Voltage Protection	Through automatic voltage stabilizer (Optional)					
Electric Supply	220/230V AC, 50/60Hz					

## CONTACT:



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# Dry Bath INCUBATOR

The Digital Dry Baths offer digital control over both temperature and time, eliminating the need for an external thermometer or timer.

The cavities within the high-grade aluminum blocks are precision-machined to match the conical size and shape of various tube sizes, providing unsurpassed temperature uniformity.

## ABOUT

- Block size:  
5 ml x 24
- Power consumption :  
65 watts
- Temperature variation:  
+<sub>-</sub> 1C
- Temperature setting range:  
37C +<sub>-</sub> 1C  
{adjustable range 30C to 80C
- Temperature sensor:  
Solid state electronic
- Temperature sensor :  
For high accuracy and linearity
- Supply :  
230V ac+ <sub>-</sub> 5%, 50 hz





# Key Features

## Dry Bath Incubator



Body	Metal Body
Temp. Controller	Digital
Temperature Range	Ambient +5 to 100 degrees C
Accuracy	± .5 Degrees C
Heating Block	24 holes of 12.7 mm diameter
Timer	1 to 999 minutes
Heating Time	15 Minutes from RT to max.
W x D x H	168 (W) x 232 (D) x 93 (H)
Weight	2.5 Kgs.
Mains Input	230V/50Hz A.C. Supply

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# CO<sub>2</sub> Incubator

A CO<sub>2</sub> incubator is used to culture cells to provide it with the optimum temperature, moisture (sterile environment) and to maintain optimum pH. Our CO<sub>2</sub> Incubators are equipped with all the advanced features to carry out the tests. Heavy gauge MILD sheet powder coated outer body with medical grade inner chamber makes the product durable.

## Key Features:

Capacity in liters	: 150
Temperature management range	: Range 3°C above ambient to 55°C
Incremental increase provided for temperature management	: 0.1 degree
Temperature accuracy	: ±0.1°C at 37 °C
Temperature stability	: ±0.1°C at 37°C
CO <sub>2</sub> gas range in percentage (%)	: 0.1 – 20
Incremental variation in co <sub>2</sub> gas range	: 0.10%
Gas uniformity	: ±0.1% at set 5.0% CO <sub>2</sub> concentration at 37 °C
CO <sub>2</sub> recovery rate	: 6 Minutes
Operational gas pressure range in psi	: 8 to 20
Dry Heat Sterilization temperature	: 180°C
Maximum Dry Heat Sterilization time	: 1 Hour
Inner chamber material	: Stainless Steel





# Key Features Of Co2 Incubator



Inner chamber formation design	: Single Sheet with no corner for higher capacity
Inner chamber	: Easily cleanable with rounded corners
Standard Perforated shelves provided	: Yes
Number of shelves provided	: 1
Shelves material	: Stainless Steel
Shelves thickness in mm	: 1 or more
Inner glass door	: 1
Time taken for CO2 recovery	: 6 min to attain 5% CO2.
Removable humidity tray	: Yes
Fan less design	: Yes
Sensor used	: Infra-Red (IR) and NDIR type CO2 Sensor
Maximum temperature	: 180 °C or more during dry heat sterilizations
Uniform temp. per DIN Norms	: Yes
Co2 cylinder provided with incubator	: Yes
Weight of incubator in kg	: 55
Type of configuration	: Portable

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# DIGITAL BACTERIOLOGICAL INCUBATOR

Incubator maintains optimal temperature, humidity and other conditions such as the carbon dioxide (CO<sub>2</sub>) and oxygen content of the atmosphere inside

## About:

In biology, an Incubator is a device used to grow and maintain microbiological cultures or cell cultures. The incubator maintains optimal temperature, humidity and other conditions such as the carbon dioxide (CO<sub>2</sub>) and oxygen content of the atmosphere inside. Incubators are essential for a lot of experimental work in cell biology, microbiology and molecular biology and are used to culture both bacterial as well as Eukaryotic cells.



# Key Features

## Of Digital Bacteriological Incubator



Better Mineral / Glass wool / Blanket Insulation.

Silent Hot Air Blower, unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution.

Door fitted with double glass window for inside view.

Polish 304 grade S. Steel interior, corrosion resistant for long life operation.

Having adjustable shelves to make more space for different height.

Kanthal A-1 super quality coil shaped heaters duly embedded / wound on the sides and bottom for better accuracy.

Equipped with LCD PID temperature Controller Cum indicator with timer function.

Temperature overshoot alarm, Timer function, Fan On/Off through controller.

Model also available with data logger and thermal printer device.

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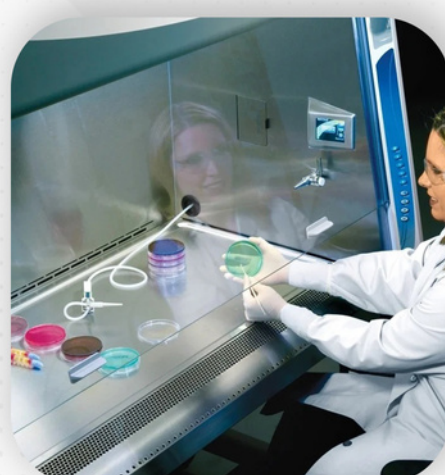




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