

## B.O.D. INCUBATOR



**B.O.D. INCUBATORS** are designed primarily to meet the requirements for tests of Biological Oxygen Demand / Biochemical Oxygen Demand and are equipped for controlled incubation and preservation of sensitive samples/cultures, microorganism cultures, vaccines & serum incubation etc. These Incubators are designed to meet the testing challenges of the competitive pharmaceutical research field and enhance the scientific efforts of educational institutions and organizations.

### SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction with backside triple, having Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model ) / Exterior Fully Stainless Steel with Dull Matt finish (GMP Model ) .
- Castor wheels for easy movability.
- Units are highly insulated by thick PUF insulation between the walls.
- A key lockable Insulated door having magnetic gasket seals door gaps perfectly.
- A transparent full-length Acrylic inner door is provided to have a clear inner view of the samples/specimens put in, without disturbing the Thermal conditions inside the incubator.
- Illumination lamp fitted for clear visibility.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber .
- Heating by long life 'U' type S . S . tubular heaters .
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing R - 134 A an eco -friendly refrigerant .
- Adjustable & removable SS rod type shelves .
- The Control Unit Comprised of PLC Based System with Touch-Screen HMI / Dual Display Microprocessor based PID Temp. Controllers with PT – 100 sensor.

- Temperature Range : 5 °C to 60 °C, Accuracy :  $\pm 1.0$  °C
- Operates on 230 Volts AC Single phase 50 Hz .

#### SPECIAL FEATURES :

- Redundant high temperature safety system with Alarm & safety Thermostat automatically cuts - off power to heaters if temperature exceeds 70 °C
- Inbuilt Overload protection relay for compressor
- Compressor ON delay timer, to safe guard the compressor.

#### OPTIONAL ACCESSORIES :

- Stand by refrigeration system (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface.
- Scanner with 4 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.

#### ORDERING INFORMATION FOR STD MODELS:

| CAT. NO.    | CAPACITY Ltrs. / Cu Ft. | Internal Dimensions<br>W X D X H (CM) |
|-------------|-------------------------|---------------------------------------|
| BOD/MS 0004 | 120 / 04                | 45 x 45 x 60                          |
| BOD/MS 0008 | 200 / 08                | 60 x 60 x 60                          |
| BOD/MS 0012 | 324 / 12                | 60 x 60 x 60                          |
| BOD/MS 0016 | 450 / 16                | 60 x 60 x 125                         |
| BOD/MS 0035 | 1000 / 35               | 80 x 100 x 125                        |

#### ORDERING INFORMATION FOR GMP MODELS:

| CAT. NO.    | CAPACITY Ltrs. / Cu Ft. | Internal Dimensions<br>W X D X H (CM) |
|-------------|-------------------------|---------------------------------------|
| BOD/SS 0004 | 120 / 04                | 45 x 45 x 60                          |
| BOD/SS 0008 | 200 / 08                | 60 x 60 x 60                          |
| BOD/SS 0012 | 324 / 12                | 60 x 60 x 60                          |
| BOD/SS 0016 | 450 / 16                | 60 x 60 x 125                         |
| BOD/SS 0035 | 1000 / 35               | 80 x 100 x 125                        |

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