

# B.O.D. INCUBATOR



Model no.: ACM-22061-I



# B.O.D. INCUBATOR

We are manufacturers of **BOD incubators** in India since 1990. Our BOD incubators are widely used for day to day bacteriological and bio chemical oxygen demand determination tests in various laboratory applications. We specialize in both standard and customized models, specifically designed to meet the challenging demands of various scientists for individual and specialized research applications. Over a short period of time Weiber brand have been established as reliable exporters of BOD incubators in India, catering to the vast markets in South East Asia, Middle East, Africa and Europe. Apart from that we are supplying our BOD incubators in India , catering to a variety of customers ranging from Defence Installations, Research Laboratories, Educational Institutes and various R and D laboratories of leading national and multinational companies.

## Salient Features of BOD Incubator

- Versatile usage
- Ergonomic Design
- Energy Efficient
- CFC free cooling
- Long life
- Low Maintenance
- Calibration And Protocol Documentation

## Construction

BOD Incubators are double walled convection heated units. Outer body of our incubators are constructed out of thick PCRC sheet duly pre-treated with primers and rust proofing and painted with long lasting stove enamel or elegantly powder coated. The inner chamber is made of heavy gauge stainless steel sheet of SS-304 grade. The gap between the walls is filled high grade mineral glass wool, which ensures maximum thermal efficiency in our

BOD Incubators. The unit is provided with two doors , the inner door is made of thick plexi glass/float glass, to view the specimens without disturbing the temperature of the chamber. This door is provided with magnetic door closer.

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outer door is made of mild steel sheet lined with stainless steel from inside.. This door is provided with lock and key arrangement. The unit is mounted on a sturdy steel frame and provided with castor wheels for easy movement inside the laboratory. The unit is provided with three stainless steel shelves. The triple walled back of our BOD Incubators are provided with two air circulation fans for uniform maintenance of the temperature throughout the chamber.

## Heating / Cooling

Indirect heating system is provided in our units, comprising of air heaters made of high grade Kanthal A-1 wires of suitable wattage. The warm air is evenly distributed throughout the chamber through efficient motor fans ensuring a very good temperature sensitivity.

An energy efficient cooling unit is installed in our BOD Incubators to enable bio chemical demand studies at lower room temperatures. We use ISI marked high end CFC free compressors of Kirloskar/Tecumseh make, conforming to latest international standards and guidelines.

## Temperature Range / Temperature Sensitivity

Temperature range of our standard BOD incubator models are 2°C to 60°C. However we have the capacity to modify the same to suit the individual specialized requirements of our customers

Temperature inside our BOD incubators are controlled with a sensitivity of + 0.5°C or better.

## Illumination

Our units are provided with door operated illumination system comprising of fluorescent lights.

## Front Panel

Front panel of our units comprises of on/off switches heating, cooling and mains indicator lamps, temperature controllers and voltmeters.

## Technical Matrix

<p><b>Temperature Control</b></p> <p>Temperature variation (time)</p> <p>Temperature deviation (spatial)</p> <p>Readability/ Set ability</p> <p>Temperature range ***</p> <p>Sensor thermocouple</p> <p>Controller</p> <p>Display</p> <p>Adjustable alarm limits (visual and acoustic)</p>	<p>± °C</p> <p>± °C</p> <p>°C</p> <p>°C</p>	<p>0.5</p> <p>0.5</p> <p>0.5</p> <p>2°C to 60°C</p> <p>Type K</p> <p>PID Controller</p> <p>LCD</p> <p>Optional</p>
<p><b>Safety thermostats</b></p> <p>Temperature variation (time)</p> <p>Sensor thermocouple</p> <p>Automatic setting</p> <p>Adjustable limits</p>	<p>± °C</p>	<p>3</p> <p>Type K</p> <p>Yes</p> <p>Yes</p>
<p><b>Light control</b></p> <p>Readability/Setability</p> <p>Light intensity in the middle</p> <p>Light intensity in both sides</p>	<p>%</p> <p>Lux</p> <p>Lux</p>	<p>7% (optional feature)</p> <p>As Desired (optional feature)</p> <p>As Desired (optional feature)</p>

<p style="text-align: center;"><b>Accessories</b></p> <p>Automatic de-icing system</p> <p>Timer (1-999 minutes or hours)</p> <p>Real Time Program</p> <p>Printer Report Program</p> <p>Serial Data Port</p> <p>Inspection window in door</p>	<p style="text-align: center;">RS 232</p>	<p style="text-align: center;">optional</p> <p style="text-align: center;">optional</p> <p style="text-align: center;">optional</p> <p style="text-align: center;">optional</p> <p style="text-align: center;">incorporated</p> <p style="text-align: center;">optional</p>
<p style="text-align: center;"><b>Shelves</b></p> <p>Standard/ max</p> <p>Dimensions w,d</p>	<p style="text-align: center;">mm</p>	<p style="text-align: center;">3</p> <p style="text-align: center;">As per the individual model</p>
<p style="text-align: center;"><b>Accessories</b></p> <p>2 x 24 characters LCD Display</p> <p>Access Port 30 mm</p> <p>Inspection window in door with cover</p> <p>Castors, lockable</p>	<p style="text-align: center;">-</p> <p style="text-align: center;">-</p> <p style="text-align: center;">-</p> <p style="text-align: center;">-</p>	<p style="text-align: center;">optional</p> <p style="text-align: center;">optional</p> <p style="text-align: center;">Optional</p> <p style="text-align: center;">yes</p>
<p style="text-align: center;"><b>Power consumption</b></p> <p>Nominal power</p> <p>Nominal voltage</p> <p>Frequency</p>	<p style="text-align: center;">W</p> <p style="text-align: center;">V</p> <p style="text-align: center;">HZ</p>	<p style="text-align: center;">950 - 1650</p> <p style="text-align: center;">230, 1~</p> <p style="text-align: center;">50/60</p>



## Standard Sizes

	<b>Weiber B.O.D. Incubator</b>	<b>Capacity</b>
<b>(a)</b>	455 x 610 x 410 mm	4.0 Cu.ft (112 ltrs)
<b>(b)</b>	505 x 830 x 415 mm	6.1 Cu.ft (171 ltrs)
<b>(c)</b>	570 x 875 x 550 mm	10 Cu.ft (280 ltrs)
<b>(d)</b>	650 x 900 x 550 mm	12 Cu.ft (336 ltrs)
<b>(e)</b>	700 x 900 x 650 mm	15 Cu.ft (420 ltrs)

## Data Acquisition And Control System For BOD Incubators

This is unique module which can be incorporated with our BOD Incubators to log in temperature and environment related data with a help of a data logger unit which has a pc connectivity by means of RS 232 C interface. This data is then analyzed and formatted with the help of our unique user friendly analysis software to enable the user to get a formatted and analyzed reports of various inputs during the full operation cycle of the equipment. This is an ideal module for pharmaceutical laboratories, process control applications and high research projects where maintaining a viable record of the performance of the equipment is very essential.

- Our system incorporates multiple Devices such as in line process Indicators, environment scanners and temperature or humidity controllers.
- Provides Astech cable for direct interface to any dot matrix or laser printer for online or offline data records printing.
- It has Bulk data storage capacity with high data retention life.
- Facility to obtain nicely formatted print out of the logged data or records with proper headers.
- Our system provided facility to program recording interval with various options to suit individual requirements.
- It is provided with the feature to adjust or select baud rate for any serial communication port.
- Our system is provided with user friendly custom developed software which obtains and analyze the data and facilitates the user to generate reports and graphs etc.

We manufactures both

**Standard And Customized**

**Incubator and Oven**



An ISO 9001 : 2208 | ISO 14001 : 2008 | ISO 13485

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