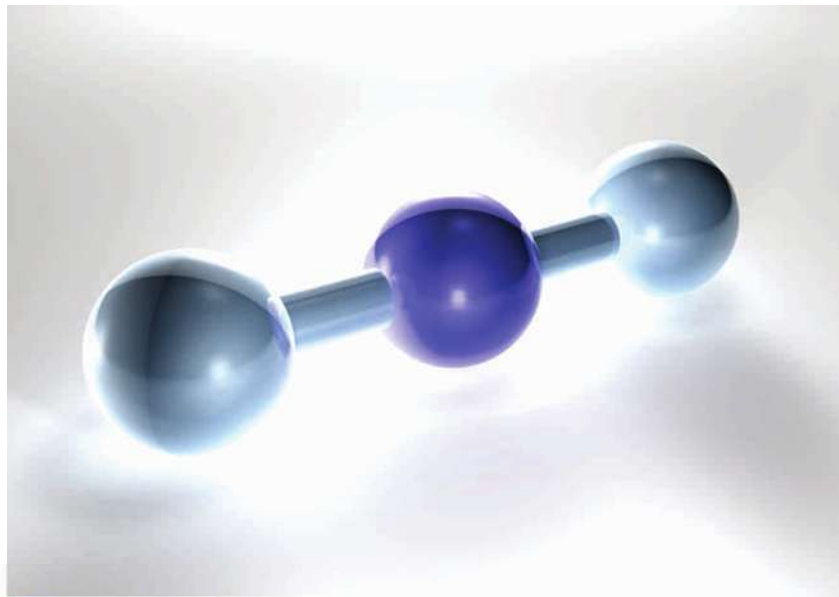


# CARBON DI OXIDE **INCUBATOR**



MODEL NO. - ACM-22062-A

# Carbon Di Oxide Incubator

We are manufacturers of **CO2 incubators** (Carbon Dioxide Incubators) in India since 1990. Our CO2 incubators are widely used in various applications that require ideal conditions for tissue culture and maximum security from contaminations. Beside that they are also used for day to day photosynthesis tests and other general 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 CO2 incubators (Carbon Di Oxide Incubators) in India, catering to the vast markets in South East Asia, Middle East, Africa and Europe.

Apart from that we are supplying our CO2 incubators (Carbon Di Oxide 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

- Reliable
- Aesthetically designed
- Energy Efficient
- Long life
- Low Maintenance
- Calibration And Protocol Documentation



## Construction

Weiber **CO2 incubators** (Carbon Di Oxide 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 CO2 incubators (Carbon Di Oxide 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. The 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 cator wheels for easy movement inside the laboratory. The unit is provided with two stainless steel shelves. The triple walled back of our CO2 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 carbon dioxide 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.

## Carbon Dioxide/Air Flow

Carbon Dioxide gas can be injected inside the chamber of the incubator with the help of a nozzle provided at the bottom of the chamber which is connected to the carbon dioxide cylinder and a flow control valve to regulate the gas intake in the chamber.



## Temperature Range / Temperature Sensitivity

Temperature range of our standard bacteriological incubator models are 5o c above ambient temperature to 70o c.

However we have the capacity to modify the same to suit the individual specialized requirements of our customers.

Temperature inside our bacteriological 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 Note

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

## Temperature Control

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

| Inner Chamber  | (Capacity) | (Volume) |
|----------------|------------|----------|
| 455x610x410 mm | 4.0 Cu.ft  | 112 Ltrs |
| 505x830x415 mm | 6.1 Cu.ft  | 171 Ltrs |

## Technical Matrix For Carbon Dioxide Incubators

|                                  |      |                        |
|----------------------------------|------|------------------------|
| Temperature Control              | -    | -                      |
| Temperature Sensitivity          | ± °C | 0.5 or better          |
| Spatial Deviation In Temperature | ± °C | 0.5 or better          |
| Readability                      | °C   | 0.51                   |
| Temperature range                | °C   | 2°C to 70°C (Standard) |

|                                   |        |  |
|-----------------------------------|--------|--|
| Temperature Sensor                | -      | PT-100                                       |
| Temperature Controller            | -      | Solid State digital Controller/ PID optional |
| Display                           | -      | LED/LCD                                      |
| Adjustable alarm limits           | -      | Optional With PID controller only.           |
| Water quality                     | -      | Distilled / Ionized                          |
| Safety thermostats                | -      | -  |
| Temperature variation Adjustments | -      | 3 (With PID Controllers only)                |
| Temperature Sensors               | -      | PT-100                                       |
| Automatic temperature setting     | -      | Yes (With PID Controllers only)              |
| Adjustable limits                 | -      | Yes (With PID<br>Controllers only)           |
| Light control                     | -      | -  |
| Readability or Set ability        | %      | 10% (optional feature)                       |
| Light intensity (Middle chamber)  | Lux    | As Desired (optional feature)                |
| Light intensity (Both Sides)      | Lux    | As Desired (optional feature)                |
| Accessories                       | -      | -  |
| De-icing module                   | -      | Optional                                     |
| Timer (999 mins)                  | -      | Optional                                     |
| Program (Real Time)               | -      | Optional                                     |
| Data Acquisition Program          | -      | Optional                                     |
| Serial Port (Printer)             | RS232C | Optional                                     |
| Inspection window in door         | -      | Optional                                     |
| Shelves                           | -      | -  |
| Standard                          | -      | 3  |
| Internal Dimensions               | mm     | Model Specific                               |
| Maximum Permitted load per shelf  | Kg     | 25Kg   |
| Maximum Permitted total load      | Kg     | 75Kg   |
| Power Consumption                 | -      | -  |
| Nominal Power                     | W      | 950  |
| Nominal Voltage                   | V      | 220-230 Volts, 50 Hz Single Phase            |
| Frequency                         | Hz     | 50   |

## Data Acquisition And Control System For Carbon Dioxide 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.

### Features

- 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  
WHO: GMP Products | GLP Compliant Products

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