

# Carbon Di-Oxide Incubator

## SALIENT FEATURES

- Reliable
- Energy Efficient
- Long life
- Calibration And Protocol Documentation
- Aesthetically designed.
- CFC free cooling
- Low Maintenance



## CONSTRUCTION DETAILS

Weiber CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> incubators are provided with two air circulation fans for uniform maintenance of the temperature throughout the chamber.

## HEATING

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.

## 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 range of our standard carbon dioxide Incubator models are 2° c to 70° c. However we have the capacity to modify the same to suit the individual specialized requirements of our customers.

## TEMPERATURE SENSITIVITY

Temperature inside our carbon dioxide Incubators are controlled with a sensitivity of + 0.5o 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.



# CARBON Di-Oxide INCUBATOR

## FEATURES

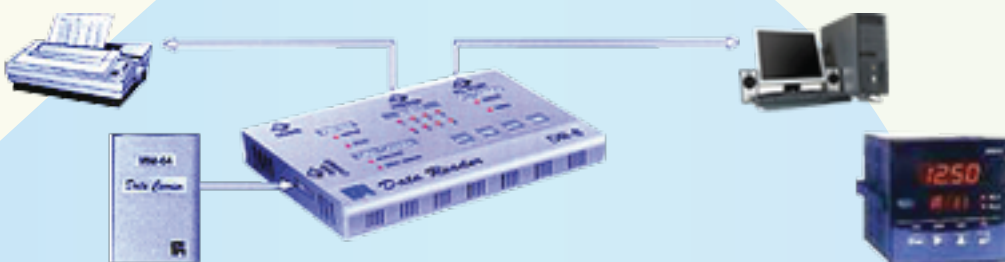
- Our system incorporates multiple Devices such as in line process Indicators, environment scanners and temperature or humidity controllers.
- Provides Astech cable for direct interface to any dot matrix or laser printer for online or offline data records printing.
- It has Bulk data storage capacity 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.

## STANDARD SIZES

	INNER CHAMBER	(CAPACITY)	(VOLUME)
A	455x610x410 mm	4.0 Cu.ft	112 Ltrs
B	505x830x415 mm	6.1 Cu.ft	171 Ltrs.

## 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 RS232C 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.



# CARBON Di-Oxide INCUBATOR

## 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 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
Water reservoir	litres	18 ltr
SHELVES		
Standard		3
Internal Dimensions	mm	Model Specific
Maximum Permitted load per shelf	kg	25 Kg
Maximum Permitted total load	kg	75 Kg
ACCESSORIES		
Printer Report Program		optional
2 x 24 characters LCD Display		optional
Access Port 30 mm		optional
Castors, lockable		Yes
POWER CONSUMPTION		
Nominal power	W	950
Nominal voltage	V	220-230 Volts, 50 Hz Single Phase
Frequency	Hz	50

# Profile

## COMPANY PROFILE :

With over a decade of industry experience in manufacturing scientific laboratory instruments, we have established ourselves with the name of ACMAS Technocracy (P) Ltd. to provide highest quality instruments to laboratories, pathologies, entomologies, pharmaceuticals, research centers etc. We have successfully catered the needs of above 600 institutions in India and abroad for the last 22 years. The dedicated and cumulative efforts of ACMAS team members has produced and delivered the comprehensive range of scientific instruments and laboratory products research projects where maintaining a viable record of the performance of the equipment is very essential.

## COMPANY'S OUTLOOK :

ACMAS Technocracy (P) Ltd. enjoys an amazing image for high quality scientific laboratory instruments across the globe. The continuous innovative technology and 'Quality Management System Standard' delivers the advanced laboratory experiments and general-purpose measuring instruments solution to various laboratories, sterilizing clean rooms, microbiologies, biotechnologies, pathologies, entomologies, pharmaceuticals, seeds and soil testing, meteorologies food processing. We also believe in providing customized instruments solution to our esteemed clients.

## MANUFACTURING FACILITIES :

The company has well built and operated manufacturing facilities that matches the latest system and technique in the industry. Our team strictly follows the quality control standards of ISO 9001:2000 series while designing, developing, manufacturing and delivering the scientific instruments. The manufacturing unit of ACMAS is made with complete state-of-the-art equipments and technologies for producing high quality instruments. We also acquired Environmental Friendly process certifications ISO14001:2004 for our entire range of instruments to ensure reliability and durability in each product.

## RANGE OF PRODUCTS :

Our wide array of AUTOCLAVE, INCUBATORS OVENS, LAMINAR AIR FLOW, MOISTURE METERS, WATER DISTILLATION PLANTS, LABORATORY BALANCES, WATER BATH, CENTRIFUGE, COOLING EQUIPMENTS, WATER TESTING EQUIPMENTS, LABORATORY SHAKING MACHINE, MICROTOME, MICROSCOPE, MEASURING INSTRUMENTS AND ALLIED products to ensures accuracy and conformity for significant experiments. We also customize some of our product range and technologies for educational, medical, industrial or other laboratories for better work experience. Our pre sale and post sales support are also admirable and popular among our satisfied clients.

## QUALITY STANDARDS :

At ACMAS Technocracy (P) Ltd, we design and develop the complete range of scientific and laboratory instruments with highest quality standards. We constantly update technologies and methodologies to ensure reliability and consistency at each level of instruments production. Our all transparency auditing system are performed by the most reliable D & B International as we want to deliver the world class quality instruments to our national and international clients. We feel proud that our entire product range has brought satisfactory results for the corporate and public sector clients.

## PROFESSIONAL TEAM :

The continuous cooperation and support of professional team has helped us to understand and deliver the satisfactory scientific instruments right from basic lab equipment to most sophisticated instruments for research labs. We believe that our tremendous success belongs to our expert engineers, managers, co-workers and other significant team members who have put their best efforts in the growth of the organization. It is their dedication and commitment that makes us the most trusted scientific instruments brand among our all satisfied clients.

## FORTE :

We strive hard to cater our clients with best product range and services while meeting international standards. Our aim is to meet the overwhelming demand of the scientific community and provide them the world class quality scientific instruments along with the best after sale support.



# Clients

OUR LIST OF CUSTOMERS



DS GROUP



**RANBAXY**  
LABORATORIES LIMITED



**COLUMBIA ASIA**  
21st Century Healthcare



# Clients

## OUR LIST OF CUSTOMERS



# OUR PRESENCE World Wide



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