

Models:
(ACM - 22062 I)

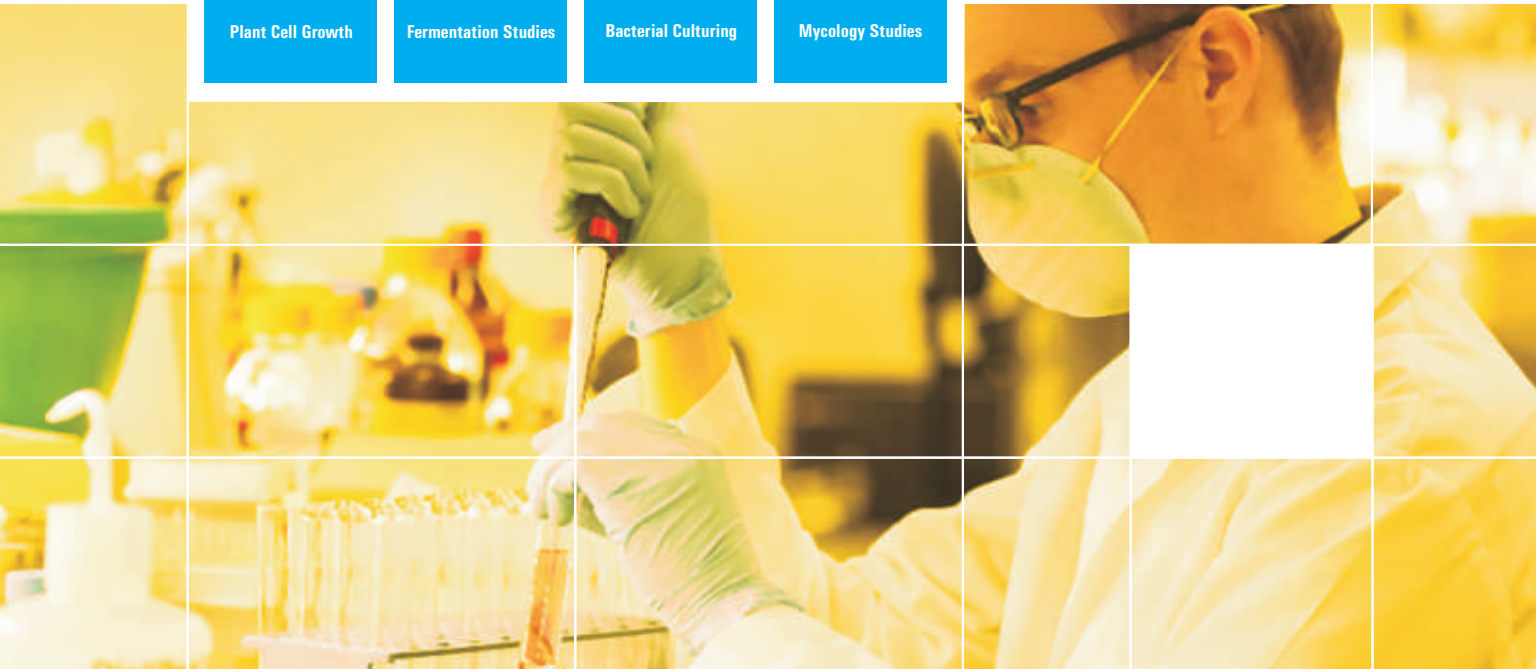
Incubator

Plant Cell Growth

Fermentation Studies

Bacterial Culturing

Mycology Studies



Most versatile for clinical & pathological applications

Models:

- ACM - 220621

WEIBER®

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Incubator



Introduction

Weiber laboratory incubators are used throughout the world by facilities which demand the highest standards of construction and performance. The chambers are manufactured from the highest quality stainless steel, and the exteriors epoxy powder coated, to give an exceptional lifespan with minimal maintenance.

Applications

Our Incubators are widely used as lab equipment, especially in microbiology for providing controlled temperature, and other conditions for the necessary growth of a microbiological culture. These equipments also assist in developing bacterial cultures, or creating suitable environment for a chemical or biological reaction. BOD Determinations of Wastewater and Sewage

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Material Of Construction

Most versatile for clinical and pathological applications. Sturdy mounted cabinet is double walled with inner chamber of Stainless steel sheet of grade SS 304 and outer wall of heavy gauge PCRC steel. sheet duly degreased and pre treated with primers for rust proofing duly painted with attractive stove enamel or powder coated.

Temperature Range

5 Degree C above ambient to 90 degree C

Temperature Control

The temperature inside the Bacteriological incubator is controlled by intelligent programmable temperature controller and indicator. This controller is based on the microcontroller nano watt technology and its ergonomic design suits for any specific requirement of the incubator like Datalogger facility, Thermal and DOT Matrix interface, direct dataload facility in computer office automation software like MS-Word and Excel and many other features listed in the specification below.

Incubator

Interactive ergonomic Control Unit based on Microcontroller



- 1) **Heater Mode** : This LED indicates the heating system on condition and it light up when the set temperature is higher than the ambient temperature.
- 2) **Cooling Mode**: This LED indicates the cooling system on condition and it light up when the set temperature is lower than the ambient temperature.
- 3) **Temperature Alarm**: This LED indicated the extreme Ambient condition and the temperature failure condition.
- 4) **Audio Alarm** : This Alarm indicates the visual alarm and indiactes any failure and Temperature overshoot conditions.

- 5) **Door Open** : Visual indication with door open conditions.
- 6) **A.C Power failure** : This visual indicator light up when the mains power fail and the system working in the battery mode.
- 7) **Low battery indicator** : This LED indicates the battery backup status, This LED indicates when the battery charge capacity available at 25% of the total charge.
- 8) **UP** : Count up key.
- 9) **SET** : This is a set button to set any parameter on the screen, by pressing of this key a cursor blink on the corresponding parameter, So you can select any desired parameter and use UP and Down key to set specific value/setting.
- 10) **Down** : Down count key.
- 11) **ESC** : This key is used to exit from any menu, you are working right now.
- 12) **Print/Data download** : This key is used to transfer the stored data into the printer or Data download facility in the computer MS Excel/Word and Hyperterminal software.

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- 13) **Display Unit** : This unit is a user interactive interface system for easy operation and it displays the parameter like DATE, TIME, Ambient Temperature, Compressor ON Delay Time, Read and Set Temperature.

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- 14) **Temperature Display** : This seven segment display indicates the read temperature value inside the chamber.

SYSTEM SETTING

- 1) **DATE and TIME** : From normal operational mode, press SET key ones,

The cursor blinks at

DATE (20), and for second press of KEY SET the cursor blinks at MONTH (12), and

20-12-07 21.34
DLY:3M

similarly on Third press of key SET cursor blinks at YEAR and repeat the steps to move to any parameter.

Similary you move cursor on any parameter and set desired value for system operation., To increase any parameter use UP key and to decrease any parameter use DOWN key.

After completion of all correct setting press ESC key to return back to the main menu.

Optional Features : (Can Be incorporated At Extra Cost If Desired)

- I. Temperature set point controls relays for refrigeration compressor and evaporator fan
- II. Relays rated min. 200VAC:
 - a. Compressor: min. 8 A, min. 60 LRA
 - b. Fan: min. 4 A
 - c. B) High/low temp alarm
- III. Audio and Visual Alarm. Programmable
- IV. Alarm mute w/ ring back in 5 minutes

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- V. Touch Button Control for Alarm Mute/Ring Back.
- VI. Keyed alarm silence switch
- VII. External Keyed Alarm Mute. Alternate: Supervisor programmable code
- VIII. Door Buzzer alarm
- IX. IR Sensor/ Micro Switch Based Door open Alarm. Adjustable or fixed 30s delay before alarm
- X. Power failure alarm: Automatic Power detection and Audio Visual Alarm. Adjustable or fixed 15 min delay before alarm
- XI. Programmable temp range: Touch Button Control to Program Temperature. User Settable.
- XII. Battery backup: Automatic Battery Charging Facility inbuilt in circuit. Provides up to 24 hr of display power
- XIII. Mounted temp probe
- XIV. Dual PT-100 sensor With Ambient Sensing by Semi conductor Temperature Sensor. Set point display (program mode) LCD and Segment
- XV. Dry contacts(Remote Control) for central alarming.
- XVI. R.F based Remote Alarm System
- XVII. Built-in chart recorder/Thermal Printer standard for blood bank units or data acquisition in the controller memory which can be down loaded on a computer through a suitable world standard interface like Rs232 and/or RS485.
- XVIII. RS-232 I/O Port Provided,
- XIX. Serial Thermal Printing facility.
- XX. 24 hr non-volatile temperature Record Storage Capacity, and Record Download facility in MS WORD/Hyper terminal / MS-Excel.

XXI. Up to 1 MB data storage Facility.

XXII. Seven Day Profile Timer with Real Time Clock.

Insulation

The gap of 75 mm between the outer and the inner wall is filled with special grade glass wool to prevent thermal losses. Mineral Glass Wool Insulation : Glass mineral wool is one of the most environmentally friendly, stable and sustainable insulants available. Glass wool is incombustible by nature. Euro class classification is A. It does not propagate flames and toxic smokes. Thanks to a dense entanglement of materials with a low conduction and trapping a great amount of air, glass wool is a an excellent thermal insulant. The thickest it is, the best thermal resistance it has, thus reducing heat losses in our equipments for better sensitivity and economical operations. And its impact on the environment in

manufacture, use and disposal is minimal.

Air circulation

Triple walled back of unit is fitted with two air circulation fans for maintaining temperature uniformly throughout the chamber

Features of Coaxial Circulation Fan

- Vacuum impregnated stator winding with dr. back varnish under red baktol
- non-hygroscopic.
- Best IR value
- Bright bar (EN - 8 class) shaft.
- Bush bearing of branded companies.
- Surge comparison testing in fans and pumps eliminates into turn short circulating of the stator.
- Pressure die-casted-rotor manufactured with zero error.
- Boats of high accuracy

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Technical Matrix

Temperature Control		
Temperature variation (time)	± °C	0.5
Temperature deviation (spatial)	± °C	0.5
Readability/ Set ability	°C	0.5
Temperature range ***	°C	5°C above ambient to to 90°C
Sensor thermocouple		Type K
Controller		microcontroller nano watt
Display		LCD
Adjustable alarm limits (visual and acoustic)		Optional
Safety thermostats		
Temperature variation (time)	± °C	3
Sensor thermocouple		Type K
Automatic setting		Yes
Adjustable limits		Yes
Light control		
Readability/Setability	%	7% (optional feature)
Light intensity in the middle	Lux	As Desired (optional feature)
Light intensity in both sides	Lux	As Desired (optional feature)

Accessories		
Timer (1-999 minutes or hours)		optional
Real Time Program		optional
Printer Report Program		Yes
Serial Data Port	RS232	Yes
Inspection window in door		Yes
Shelves		
Standard/ max		2- 6 (depending on the internal size)
Dimensions w,d	mm	As per the individual model
Max load per shelf	kg	20
Permitted total load	kg	80 kg (Max Internal Size)



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