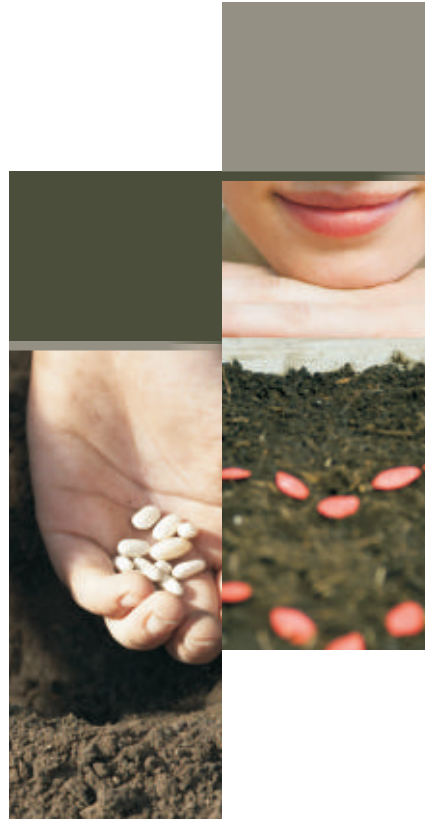


Seed Germinator **Dual Chambers**

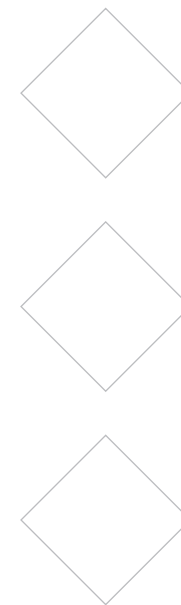
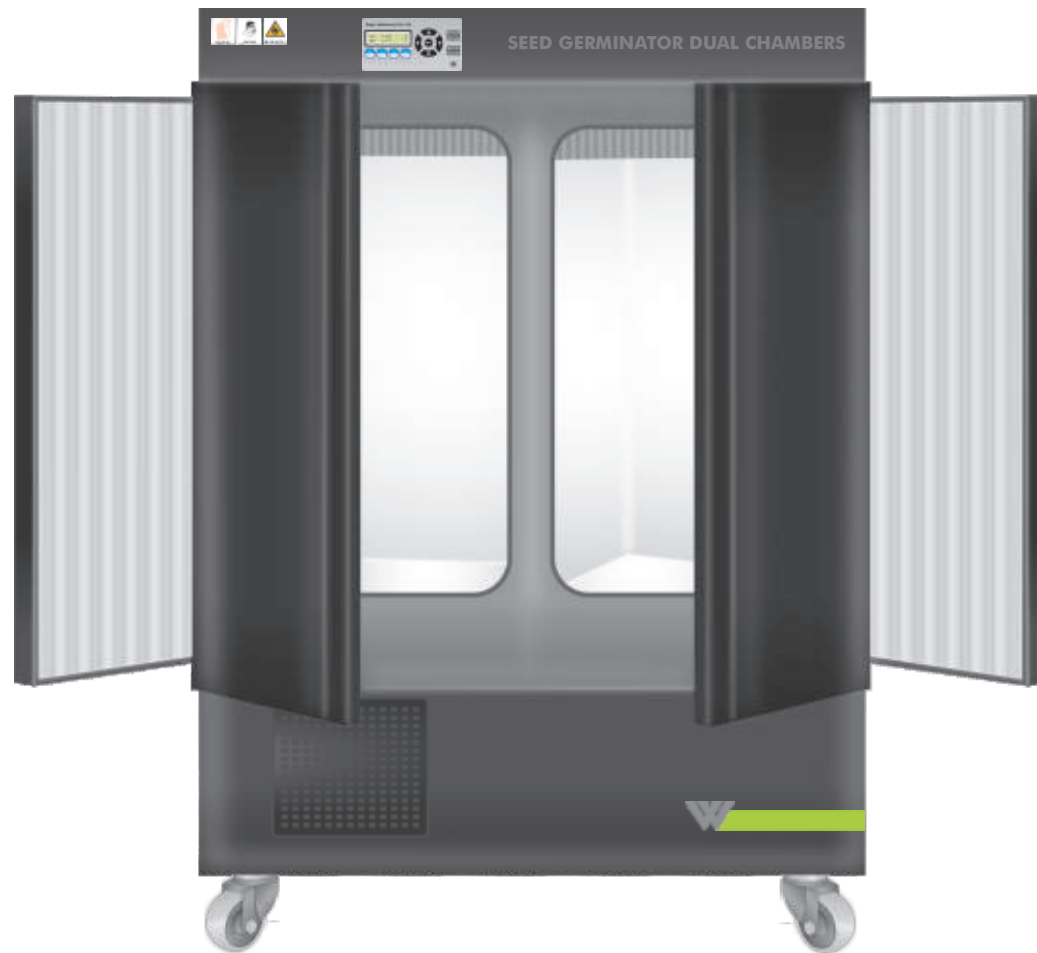
Models:

- ACM-42103 L

Seed Germinator Dual Chambers



Seed Germinator Dual Chambers



Latest range of Seed Germinator sets new standard for conducting experiments in the field of seed germination of variety of seeds under different environmental conditions of temperature, humidity, illumination. Both chambers have different environmental conditions.

Construction

Weiber Seed Germinators are double walled convection heated and cooled units. Outer body of our seed germinators 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 chambers.

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Seed Germinator Dual Chambers



The unit is provided with one door. This door is provided with magnetic door closer. The 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. The unit is provided with various customized shelves in various permutations and combinations to suit individual requirements.. The triple walled back of our Humidity and Temperature controlled cabinets are provided with one/ two air circulation fans for uniform maintenance of the temperature throughout the chamber. (Glass Viewing window on the door can be installed on request free of cost)

Trays

The unit is provided with 14 Trays of size: 430 x 480mm each, made of Stainless Steel SS 304 grade.

Illumination And Illumination Control The chamber of our seed germinator are equipped with fluorescent light for enabling photosynthesis & are switched ON/OFF by 0-24 hours timer to simulate the day/night conditions.

Humidification

Humidity inside the chamber is provided by steam generated through heating water with the help of immersion type heater. A water reservoir is provided in the machine with heaters and controls for this purpose, to achieve 90 to 96% + 3% RH (non adjustable)

Temperature Control

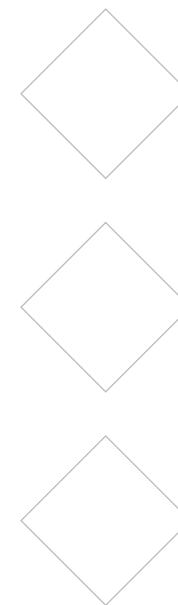
The temperature inside our chambers is controlled through programmable micro-processor based temperature controller cum indicator.

Temperature Range

Temperature range of our standard walk in Incubator models are 5°C to 60°C

Control Panel

Switches and indicating light for cooling heating, humidity and illumination, timer, thermostats, etc. are provided on the control panel for easy access. Suitable to work on 230 Volts single phase, 50Hz AC supply.



Seed Germinator Dual Chambers



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 an excellent thermal insulant. The thicker it is, the better 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

Size of each chamber:- W x H x D

(Internal)

Individual chamber 518 x 600 x 548 mm (Two Chambers)

(External)

Individual Chamber 860mm x 876mm x 740mm (Two Chambers)

Refrigeration Unit

Refrigeration unit is formed by ISI marked compressor/cooling kit. Of Kioloskar Copeland or Tecumseh.

Features :

- High Energy Efficiency
- Compact
- Ozone-friendly refrigerants
- Proven Technology
- Wide Voltage Range

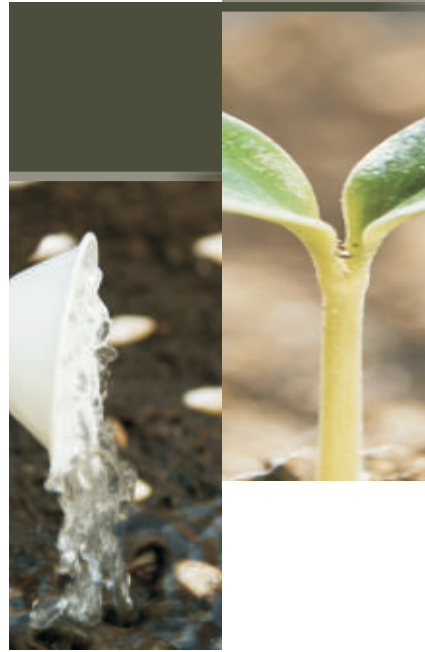
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Seed Germinator Dual Chambers



APPLICATION	
Evaporating Temp Range	0-60 Degree C
Refrigerant	R- 134a
Refrigerant Control	CAPILLARY
Compressor Cooling	STATIC
General Applications	REFRIGERATOR/ DEEP FREEZER

RATED PERFORMANCE

Cooling Capacity -Rated	282 - 650 Btu/hr (Model specific)
Power input -Rated	80-110 Watts (Model Specific)
Energy Efficiency Ratio	3.53 Btu/Whr
Current - Rated	0.70 Amps
LRA -Rated	N/A
Evaporating Temperature	-23.30C
Condensing Temperature	540C
Liquid Sub Cooling Temp	320C
Return Gas Temperature	320C
Ambient Temperature	320C
Pressure - Suction	0.32 Kg/Cm2
Pressure - Discharge	12.9 Kg/Cm2

MECHANICAL DATA	
Design	RECIPROCATING
Displacement/Revolution	3.14 CC
No. of Cylinders	One
Speed (Nominal)	N/A
Oil Charge	230 CC
Weight	7.3 Kgs
Internal Pressure	PROVIDED
Relief Valve	

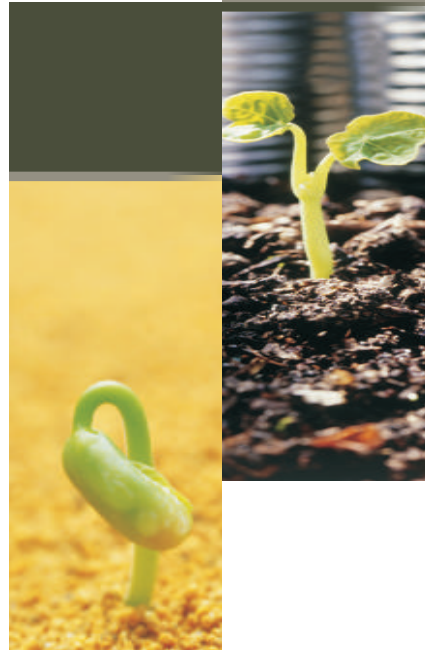
MOTOR DATA

Motor Type	PTCSIR
Frequency	50 Hz
Phase	SINGLE
Voltage -Rated	230 Volts
Voltage -Range	N/A
High Potential Test	N/A

OVER LOAD PROTECTOR

Type	EXTERNAL
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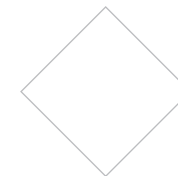
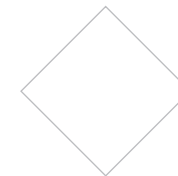
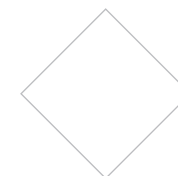
Seed Germinator Dual Chambers



Seed Germinator Dual Chambers

Technical Matrix For

Temperature variation (time)	+/-°C	0.5
Temperature deviation (spatial)	+/-°C	0.5
Readability/ Set ability	°C	0.5
Temperature range ***	°C	5°C to 60°C
Sensor thermocouple		Type K
Controller		Solid State digital Controller/PID optional
Display		LED/LCD
Adjustable alarm limits (visual and acoustic)		Optional
Safety thermostats		
Temperature variation (time)	+/-°C	3 (With PID Controllers only)
Sensor thermocouple		Type K
Automatic setting		Yes (With PID Controllers only)
Adjustable limits		Yes (With PID Controllers only)
Light control		
Readability / Set ability	%	7% (optional feature)
Light intensity in the middle	Lux	As Desired (optional feature)
Light intensity in both sides	Lux	As Desired (optional feature)



Accessories		
Automatic de-icing system		optional
Timer (1-999 minutes or hours)		optional
Real Time Program		optional
Printer Report Program		optional
Serial Data Port	RS232	optional
Inspection window in door		optional
Shelves		
Standard/ max		14
Dimensions w,d	mm	518 x 600 x 548 mm
Max load per shelf	kg	10
Permitted total load	kg	140 kg (Max Internal Size)
Accessories		
Printer Report Program		optional
2 x 24 characters LCD Display		optional
Access Port 30 mm		optional
Inspection window in door with cover		optional
Castors, lockable		Yes
Power consumption		
Nominal power	W	1850
Nominal voltage	V	230, 1~
Frequency	Hz	50/60

Seed Germinator Dual Chambers



Optional Upgrades For Environmental chamber (If Desired)

Universal Digital Data Recorder with Computer

Data Acquisition And Control System For Environmental Chamber.:

This is unique module which can be incorporated with our environmental chamber 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.



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