



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

SEED GERMINATOR - REFRIGERATED - INNER S.S. - 90 X 60 X 60 CM - WITH HMI, PLC & ILLUMINATION CONTROL



Construction Details :

1. Double wall construction
2. **Interior chamber is fabricated from high grade stainless steel Material (S.S.304).**
3. **Exterior body is fabricated from made Mild steel material - which is duly powder coated in attractive shades**
4. Full size polycarbonate sheet inner door to inspect samples without affecting the chamber temperature.
5. Properties of polycarbonate sheet door (Unbreakable, Un-scratchable, High temperature resistant, Robust, Air tight and Transparent)
6. Outer double walled metal door with sponge - type silicon gasket for air-tight sealing as to avoid leakage of chamber uniformity
7. User friendly and tactfully designed chamber door and locking mechanism
8. Chamber illumination is accomplished by Fluorescent light with door switch.
9. Electrical wiring as per CE Compliances - with individual numbering of each internal circuitry wire for ease of maintenance & Repairing
10. Electric Motor of blower located at the back side of unit, which is protected with safety cover to avoid accident
11. Standard motor of reputed companies - such as CG GONDRE.I or GF Make

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone : (079) 6621 1234
Website : www.eieinstruments.com

Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,
Opp. Primary School, Village Kubadthal,
Tal-Daskroi, Ahmedabad-382 433.
Phone: (079)-3520 8300
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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F



12. Hermetically sealed CFC Free Kirlosker/Emerson make refrigeration system with R-134A refrigerant media
13. Humidity system is accompanied by Non-condensing type steam injection system with water level arrangement controlled through ball-cock valve
14. **Illumination exposure with combination of LED TUBE LIGHTS for artificial day light and the cyclic illumination conditions are regulated by AUTOMATIC 0-24 HOURS cyclic Timer.**
15. **Chamber is fitted with required no. of 1 feet & 2 feet LED TUBE LIGHTS with adjustable dimmer & isolating drivers.**
16. Fitted with water Inlet, water Outlet & Over Flow Nozzle
17. Cord wire duly tested and inspected with stress factor as per CE standard
18. Aesthetic outer appearance and high quality
19. Unit mounted on castor wheels for easy movement.

Insulation

70mm polyurethane insulation (PUF)/ fiberboard to ensure better insulation and less leakage of temperature or RH from inner body to the surroundings.

Air Circulation

Temperature is maintained by a quiet running blower circulation air throughout the chamber. Forced air circulated vertically down and re circulated throughout the chamber for uniform temperature and humidity.

Humidity

Humidity created by steam injection method. The boiler tank is fitted in the back side of the chamber for better servicing, Electromagnetic switch for controlling the wet heater from burning off if water level is not adequate. Float valve provided to control water level in the boiler tank.

Heating system

Long lasting SS tubular heaters used as heating element. The stainless steel fins provided to ensure better heat transfer.

Refrigeration System

Hermetically sealed compressor CFC free compressor (134 A gas) coupled with evaporation coil and condenser. Kirlosker/Emerson make refrigeration system.

Trays for sample

1. Removable perforated trays are part of the standard supply.
2. Strong enough to with-stand heavy load of test specimens
3. Such trays will also facilitate better air circulation.

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4. The distance between trays will be 15-20 centimeters.

Safety Features

1. High temperature safety cut off
2. Low water level boiler cut off
3. Electrical overload cut off
4. Time delay for compressor switch ON
5. Electrical circuit breaker

Pre installation mandatory requirement : (Guarantee void in case of non compliance)

1. Distilled water OR DM water continuous supply with tap for boiler input of 3/8" BSP at 3 feet height.
2. Room temperature around machine preferably at 25 °C. with air conditioning or a well ventilated room with exhaust fan.
3. However surrounding temperature should not exceed 30 °C .
4. Stabilized Input Voltage of 230 Volt, 50 Hz, 20 Amps, AC Supply. Use of Servo Controlled Stabilizer is recommended.
5. Water drain line with 3/8" nozzle to be provided at floor level.

Optional Accessories At Extra Cost

21-CFR Compliance software with PC Connectivity to log, modify and store the generated data, To generate the Audit trail report and to plot the real-time graphs of various parameters @ **Rs 30000**

Seed Germinator Chamber Exported in Russia, Bangladesh, Nepal, Bhutan, Sri Lanka, Indonesia, Taiwan, South Africa, Kenya, Morocco, Egypt, Malaysia.

Technical Specification

•Inner chamber	:	90 x 60 x 60 cm (L x B x H)
•Chamber volume	:	324 Liters
•No. of trays	:	04 Shelves
•Temperature & RH Control Indicator	:	Touch screen HMI & PLC Controller with Illumination Percentage control option
•Tray Material	:	Stainless Steel Perforated Trays

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•Timer	:	In-Built Automatic Cyclic Timer for 24 Hours time
•Fluorescent Lights	:	24 Watts, 2500-3000 Lumens capacity
•No. of Fluorescent Lights	:	15-20 Nos (Based on the chamber volume capacity)
•Door	:	Chamber door with Glass Window for Visualization
•Insulation	:	70 mm PUF insulation to ensure thermal stability and to reduce electrical consumption
•Convection Type	:	Forced convection type
•Temperature Range	:	0 °C to 50 °C
•Humidity Range	:	40% RH to 95% RH
•Humidity Accuracy	:	± 5 % RH
•Temperature Accuracy	:	± 0.5 °C
•Temperature Resolution	:	0.1 °C
•Temperature Uniformity	:	± 1 %
•Temperature sensor	:	PT - 100
•Humidity Sensor	:	Capacitance type direct reading Humidity sensor ROTRONIC/PPI Make
•Display	:	Digital LCD Display
•Lighting	:	Interior illumination for working area, which is operated by door switch
•Validation Port	:	50 mm validation port to insert external sensors within the chamber
•Refrigeration System	:	Kirlosker/Emerson maker
•Refrigerant	:	CFC Free R134A

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•Evaporator	:	Finned tubes
•Interface	:	Provision for RS 232 Port (Software at extra cost)
•Power Supply	:	230 volts, 50 Hz, Single Phase, AC Supply

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