



Growth test chamber with light on the door vert. fan 350 lt - GVD 350

Growth Chambers without humidity control - Vertical Airflow

Growth Test Chamber GVD 350 is 350 lt instrument for high technology laboratory testing the reaction of samples at several environmental conditions at more temperatures and lights. Before launching a product on the market, it is necessary to verify how it reacts at high or low temperatures and effect of light.

The model GVD has not humidity control but it has lights on the door and vertical forced ventilation to test a few big samples on more shelves; this chamber is suggested for growing of plants, algae, seeds, and insect incubation (Drosophila).

350 lt capacity makes this instrument like a big, refrigerated incubator with better results, granted by good uniformity and accuracy.





Descrizione

FIELDS OF APPLICATION

- Plant growth
- Seed germination
- Acclimation of plants
- Culture of plant cells and tissues
- Chemical industry
- Test which needs specific temperature, humidity and illumination
- Genetic manipulations of plants
- Cultivation of protoplasm and cells
- Incubation and rearing of insects
- Chemical and pharmaceutical industry Research
- Quality test
- Plant biotechnology
- Timber and forestry industry
- Cosmetic Industry

STANDARD FEATURES

- Cooling system controller by solenoid electrovalves
 - Adjustable safety thermostat protects samples against high temperature
 - System setting protected by password
 - Key lock on the door
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- Range control: from +4°C to +60°C (optionally from -10/-20/-30°C to +60°C without humidity control)
 - Models include forced air refrigeration (distributed uniformly), and have high temperature homogeneity inside of the chamber
 - Ultrasound humidity generator, introducing microscopic water drops inside of the chamber at room temperature (electrode system optionally)
 - Condensation drying system by cooling
 - Independent cooling and heating systems



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- Tropicalization treatment, to allow work up to +32°C room temperature
 - Internal glass door, with hermetic closing (models up to -10°/-20°/-30°C do not include internal glass door)
 - Solid external door with opening aids and big sized handle (double glass door optionally)
 - Hermetic compressor built over dampers to reduce noise levels
 - AISI 304 stainless steel internal finish
 - Epoxy coated steel external finish
 - Rounded corners for easy cleaning
 - Heated door frame, to ensure an ice free door closing for models up to -10°/-20°/-30°C
 - Access port, to introduce cables and external instruments
 - Light intensity control, in several levels, with day/night and sunrise /sunset profiles
 - Fluorescent or LED lighting (optionally in door or shelves)
 - Programmable day/night temperature with or without humidity
 - USB port to store system data
 - High density of 60 mm polyurethane insulation (CFC and HCFC free)
 - R290 natural refrigerant
 - Magnetic gasket on the external door, to ensure a better door closing.
 - 4 wheels for easy movement with height-adjustable feet
 - Height-adjustable perforated stainless steel shelves
 - Including touchscreen controller with graphic representation
 - Work cycles programming
 - Control system with battery backup and automatic recharge, for up to 48h
 - The controller stores the max/min temperature values with their graphical representation
 - Audible and visible independent alarms for maximum and minimum temperature, with NiCd battery backup for more than 48h of battery life (72h optionally)
 - PC software
 - Ethernet output

OPTIONAL ACCESSORIES

- Temperature range control: day/night +4°C to +60°C (optionally from -10/-20/-30°C to +60°C without humidity control)
- Humidity generator up to +98°C RH
- Air drying system up to 15% RH at +4°C
- Additional access ports to introduce cables and probes
- Thermal glass door, with heated frame in models with humidity control or lower temperatures
- External stainless steel finish
- Plugs inside the chamber



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- Potential free output for remote alarm control
 - UV light tubes for sterilization
 - Telescopic trays to locate instruments
 - Printer for temperature and humidity data
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- GSM phone alarm module
 - Battery backup



Caratteristiche tecniche	
Capacity	Lt 350
Homogeneity of temperature without humidity	+/-1.5 °C
Temperature range without humidity	+4°C to +60°C (optionally from -10/-20/-30°C to +60°C without humidity control)
Stability of temperature without humidity	+/-0.75 °C
Ventilation	Vertical without humidity
Nr of doors	1
Nr of shelves	1
Usable dimensions (WxDxH)	820x540x660
External dimensions (WxDxH)	925x800x1140
Item	701.2100.01
Accuracy of display without humidity	+/-0.1 °C
Accuracy of NTB probe without humidity	+/-0.15 °C
Compressor RH	1/2



Galleria immagini

