

Jeio Tech 1000 Litre Plant Growth Chamber (GC-I000TLH)

Product Code: AAHA1032K

Brand: Jeio Tech

Gain guaranteed photosynthesis conditions with the Jeio Tech 1000 Litre Plant Growth Chamber (GC-I000TLH).

With a capacity of 1000 litres, this plant growth chamber delivers an innovative performance of low and high temperature along with humidity control. This is attained by altering the humidification tank exterior to the chamber, giving a joined advantage for carrying out frequent tests.

Features:

Performance:

General Control System

- 5°C to 50°C (lamp off)/10°C to 50°C (lamp on).
- Max. to 35,000 Lux.
- 50 to 90% RH at 20 to 35°C.
- Max. 5000ppm CO₂ on/off system (optional).
- Microprocessor PID control/temperature calibration/automatic tuning.
- 10 step programmable temperature, humidity, and illumination profiles and repeatable steps of up to 999 cycles.
- Advanced performance of low and high temperature and humidity control, achieved by adapting the humidification tank exterior to the chamber, added benefit for long term test.

Illuminance Control System

- Uniformed luminescence distribution.
- Broad distribution of side lamps for hastening the growth of plants.
- High intensity illumination of upper lamp for light efficient and low thermal load.
- Unique construction for minimization of heat increase from surrounding lamps. Tempered glass door blocks heated air from lamps. Designed to exhaust heated air through upper vent holes.
- Stable and long lasting lighting through introduction of high frequency electronic ballast lamps.

Convenience:

- Ergonomically designed door construction. Inner glass door with silicone and external door with magnetic sealing for dual airtight packing. Well designed providing a smooth open for minimization of damage to plants.
- Wide inner tempered glass door for clear observation of plant growth without affecting inner chamber's environment.
- Tall plants can be grown inside of the chamber with adjustment of shelf level.
- Maintenance of water supply are easily performed with a front water tank. Water level check indicated by water level bar in the tank.
- Water supply during operation is also available for long term test purposes.
- Detachable condenser air-filter for easy maintenance of refrigerating efficiency. Maintenance of air filter no longer cumbersome with our detachable condenser air filter.
- Casters for easy mobility during installation or relocation.
- Eco-friendly CFC-free refrigerant use.

Safety:

- Automatic shut off after overheat alarm.
- Low and empty water level alarm.
- Power supply leakage breaker.
- Over current protection.



Lamps Setting:

- Control illumination values with the below lamp setting arrangements.



GC-I000 lamp arrangement

Specifications:

Chamber Volume (litres)		1000
Controller		Microprocessor PID controller
Temperature	Range (°C)	5 to 50 (lamp off)
		10 to 50 (lamp on)
		20 to 50 (with humidity)
	Fluctuation at 25°C	± 0.4 (without humidity)
	Variation at 25°C	± 1.0 (without humidity)
Illumination	Range (Lux)	0 to 35,000
	Control (steps)	11
	Lamp	FL lamp (32W x 16ea)
Metal lamp (400W x 3ea)		
Humidity (RH%)	Range	50 to 90 (at 20 to 35°C)
		60 to 90 (at 36 to 50°C)
	Fluctuation at 60% RH	± 3
Carbon Dioxide (optional)	Range (ppm)	300 to 5000
	Sensor	NDIR Carbon Dioxide
Temp. Heater Power (W)		3/4
Humid. Heater Power (W)		1800
Dimensions (w x d x h)	Internal	1200 x 800 x 1080mm
	External	1410 x 1070 x 2150mm
Net Weight (kg)		550
Electrical Requirements (230V)		50Hz, 17A



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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