

## Jeio Tech 300 Litre Plant Growth Chamber (GC-300TL)

**Product Code: AAHA1012K**

**Brand: Jeio Tech**

Gain guaranteed photosynthesis conditions with the Jeio Tech 300 Litre Plant Growth Chamber (GC-300TL).

With a capacity of 300 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 20,000 Lux.
- Max. 5000ppm CO<sub>2</sub> 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.
- Unique construction for minimization of heat increase from surrounding lamps. Tempered glass door blocks heated air from lamps.
- 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.
- 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.

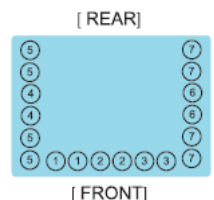
#### Safety:

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



#### Lamps Setting:

- Control illumination values with the below lamp setting arrangements.



GC-300 lamp arrangement

## Specifications:

<b>Chamber Volume (litres)</b>		300
<b>Controller</b>		Microprocessor PID controller
<b>Temperature</b>	<b>Range (°C)</b>	5 to 50 (lamp off)
		10 to 50 (lamp on)
		20 to 50 (with humidity)
	<b>Fluctuation at 25°C</b>	± 0.4 (without humidity)
	<b>Variation at 25°C</b>	± 1.0 (without humidity)
<b>Illumination</b>	<b>Range (Lux)</b>	0 to 20,000
	<b>Control (steps)</b>	10
	<b>Lamp</b>	Fl lamp (32W x 18ea)
<b>Carbon Dioxide (optional)</b>	<b>Range (ppm)</b>	300 to 5000
	<b>Sensor</b>	NDIR Carbon Dioxide
<b>Refrigerant (Hp)</b>		1/2
<b>Temp. Heater Power (W)</b>		750 x 2ea
<b>Dimensions (w x d x h)</b>	<b>Internal</b>	510 x 540 x 1100mm
	<b>External</b>	700 x 805 x 1900mm
<b>Net Weight (kg)</b>		250
<b>Electrical Requirements (230V)</b>		50Hz/15A



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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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