CE | Green CFC-Free | Program | Calibration | Full Start Level Indicater | Over Temp. | Auto Run

Optimal photosynthesis condition guaranteed when using our plant growth chamber.

Ample capacity, maximum capacity of 1000L to satisfy user's plant growth needs

GC-1000TLH / GC-300TLH

with optional recorder

Standard accessories • Inner glass door, Wire shelves

Optional accessories • Perforated shelves, CO_2 sensors

see page 241

Optimal photosynthesis condition for plant growth.

- ▸ Uniform temperature and humidity. (TLH models)
- ▸ Reinforced Blue and Red spectrums lighting system for plant photosynthesis.
- ▸ Optional CO_2 sensor (optional)
- ▸ Programmable temperature, humidity, and lighting.
- ▸ Progressive temperature, humidity, illumination program control for optimization of plant growth environment for night and day.

Performance

General control system

- 5℃ to 50℃ (lamp off) / 10℃ to 50℃. (lamp on)
- Max. to 35,000Lux for GC-1000.
  Max. to 20,000Lux for GC-300 Models.
- 40 to 80% RH for GC-300TLH. (at 20 to 35℃)
  50 to 90% RH for GC-1000TLH. (at 20 to 35℃)
- Max. 5,000ppm CO_2 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.

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. (for GC-1000TLH/1000TL)
- 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. (for GC-1000TLH)
- Stable and long lasting lighting through introduction of high frequency electronic ballast lamps.

Convenience

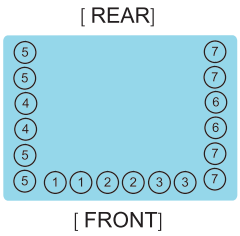
- Ergonomically designed door construction.
  - Inner glass door with silicone and external door with magnetic sealing for dual airtight packing.
  - Well designed providing a smooth open for minimization of damage to plants.
- Wide inner tempered glass door for clear observation of plant growth without affecting inner chamber's environment.
- Tall plants can be grown inside of the chamber with adjustment of shelve level.
- Maintenance of water supply are easily performed with a front water tank. (GC-1000TLH)
  - Water level check indicated by water level bar in the tank.
- Water supply during operation is also available for long term test purposes.
- Adjustable water tank position. (for GC-300TLH)
- 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

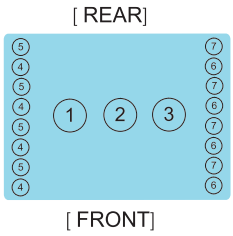
- Automatic shut off after overheat alarm.
- Low and empty water level alarm.
- Power supply leakage breaker.
- Over current protection,
- Open door alarm.

Lamps setting

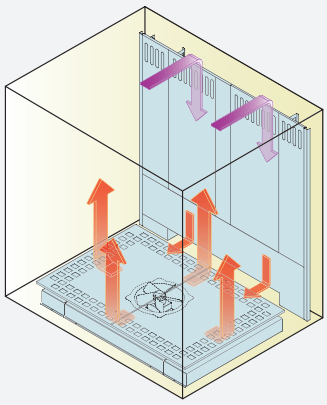
- Control illumination values with the below lamp setting arrangements.



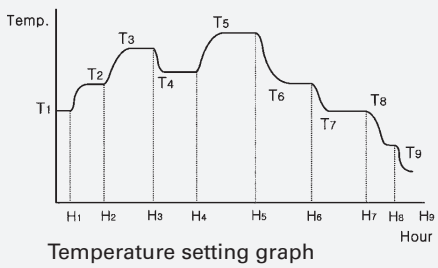
GC-300 lamp arrangement



GC-1000 lamp arrangement



Efficient airflow for plant growth (1000ℓ)



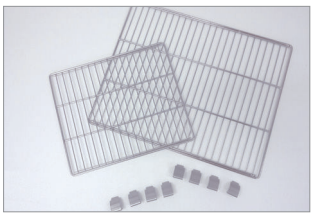
Temperature setting graph

* 00:00 time value setting for the step 10 makes total number of step is 9 as the above graph.

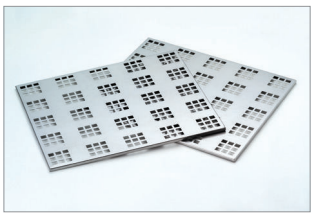
Model		GC-300TL		GC-300TLH		GC-1000TLH	
Chamber volume (L / cu ft)		300 / 10.6				1000 / 35.3	
Control system		Microprocessor PID controller					
Temperature	Range (℃ / ℉)	5 to 50 / 41 to 122 - Lamp off					
		10 to 50 / 50 to 122 - Lamp on					
		20 to 50 / 68 to 122 - with humidity					
	Fluctuation (±℃ / ℉) at 25℃	0.1 / 0.18 - without humidity					
	Variation (±℃ / ℉) at 25℃	0.8 / 1.43 - without humidity					
Illumination	Range (Lux)	0 to 20,000				0 to 35,000	
	Control (steps)	10				11	
	Lamp	FI lamp (32W×18ea)				FL lamp (32W×16ea)	
						Metal lamp (400W×3ea)	
Humidity	Range (% RH)	-		40 to 80 at 20 to 35℃		50 to 90 at 20 to 35℃	
				70 to 90 at 36 to 50℃		60 to 90 at 36 to 50℃	
	Fluctuation (±RH) at 60% RH	-		3			
Co_2(optional)	Range (ppm)	Max. 5,000					
	Sensor	NDIR CO_2 sensor					
Refrigerant (HP)		1/2				3/4	
Temp. heater power (W)		750×2ea				1,500×2ea	
Humid. heater power (W)		-		1300		1500	
Dimension (W×D×H)	Interior (mm / inch)	510×540×1100 / 20×21.3×43.3				1200×800×1080 / 47.2×31.5×42.5	
	Exterior (mm / inch)	700×805×1900 / 27.6×30.1×74.8				1410×1070×2150 / 55.5×42.1×84.7	
	Net weight (kg / lbs)	250 / 551.2				550 / 1212.5	
Electrical requirements (230V)		60Hz / 12.5A	50Hz / 12.5A	60Hz / 16A	50Hz / 16A	60Hz / 30A	50Hz / 30A
Cat. No.		**AAHA1011K**	**AAHA1012K**	**AAHA1021K**	**AAHA1022K**	**AAHA1031K**	**AAHA1032K**

※ FDA establishment registered company. FDA listed products.

Accessories & Options



Wire shelves



Perforated shelves

Recorder (dot type)

CO_2 sensor

Model	Wire shelves			Perforated shelves			Recorder	CO_2 sensor
	Cat. No.	Dimension (W×L, mm / inch)	No. of shelves (standard/max.)	Cat. No.	Dimension (W×L, mm / inch)	No. of shelves (max.)	Cat. No.	Cat. No.
GC-300TL	**EDA8220**	466×490 / 18.3×19.3	3 / 14	**AAA22522**	466×490 / 18.3×19.3	14	**AAAA1501**	**AAAA1521**
GC-300TLH	**EDA8220**		3 / 14	**AAA22522**		14	**AAAA1501**	**AAAA1521**
GC-1000TLH	**EDA8222**	580×770 / 2.8×30.3	6 / 29	**AAAA1512**	580×770 / 22.8×30.3	29	**AAAA1502**	**AAAA1521**