



GW-SD



GW-DD



### Applications

Growth chamber is to perform culture of plant's / organism's cells, tissues and organs growth experiments inside laboratory and the acclimation of plants for nurture-type research. The aim is to create such atmospheric conditions responsible for effective germination and growth. In such chamber, temperature and lights are controlled in such a way that can create desired environment essential for examining growth of a particular plant or organism.

### Features

- Microprocessor control and Digital display, ensuring internal temperature in the range of 0°C to 50°C
- Digital PID controller for temperature uniformity and fluctuation of less than 1.0°C
- Back-up memory system protects the preset temperature value during power failure
- Automatic diagnostic system identified and automatically adjust if controller error occurred
- Internal Offset function available for calibration purpose
- Programmable timer for 24 hours repeatable setting for Day / Night controller operation and shifting
- Illumination intensity up to 6000LUX
- High efficient compressor and CFC-FREE refrigerant for fast cooling effect
- Ergonomic design
- Automatic cycle defrost ensure temperature stable
- Body construction: Powder coated mild steel
- Safety feature: High-limit temperature cut-off thermostat
- Built-in circuit breaker
- Transparent large glass door with heater to remove condensation and easy viewing
- Door switch to control air circulation to reduce temperature fluctuation during door opening
- Door lock for authorization purpose
- Mounted with locking-castor-wheels for easy mobility and location setting

### Specification

Model	GW-SD	GW-DD	GW-TD
Capacity	500 L	1050 L	1600 L
Body construction	Powder coated mild steel interior and exterior		
Cabinet insulation	CFC-free polyurethane insulation		
Controller	PID controller (2 units: 1 for Day & 1 for Night)		
Temperature range	0°C to 50°C		
Temperature accuracy	±1.0°C		
Temperature setting	Digital setting and display to 0.1°C		
Heater	800 Watts	1600 Watts	2400 Watts
Safety devices	Over temperature thermostat, overload protection for compressor, ELCB, Hi-Low pressure switch		
Timer	Programmable 24hr timer for Day / Night operation		
Illumination	6000 LUX (Each shelf level come with 6 units LED lamp; Total 4 shelves level with LED lamp)		
Compressor	¼ HP hermetic seal	0.42 HP hermetic seal	¾ HP hermetic seal
Refrigerants	R134a, CFC-free		
Air circulation	Forced air circulation Fan		
Total level (Shelves)	5 level (5 shelves)	5 level (10 shelves)	5 level (15 shelves)
External dimensions (mm)	640W x 825D x 2070H	1260W x 825D x 2070H	1880W x 825D x 2070H
Internal dimensions (mm)	535W x 650D x 1430H	1155W x 650D x 1430H	1770W x 650D x 1430H
Power Supply	240V, 50Hz, 6.6A	240V, 50Hz, 13.0A	240V, 50Hz, 14.5A
Weight	153 kg	220 kg	282 kg