Cat. No

Description

DAIHAN® Plant Growth Chamber, "SWGC", Smart-Lab™ System, 432-/864- Lit. NEW with Smart-Lab™ Controller, CFC-Free, 0~12.000 · or 15.000 · Lux, 30~95% RH, 10~60°C, with Certi. & Traceability



Programmable Plant Growth Chamber "SWGC-1000"



Main Display of Smart-Lab™ Controller



Graph Display of Smart-Lab™ Controller



Program Set Display of Smart-Lab™ Controller

- with Certificate & Traceability: Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Suitable for Plant Growth, Stability, Product Self-life QC Testing
- Ergonomic Screen Design 7" Full Touch Screen TFT LCD (Smart-Lab™ Controller)
- WiRe[™] App & Web Service.
- Automatic Data Recording
- Self-Diagnostic Function
- Variable Program Setting for Multiple Patterns with Multiple Segments
- The Recorded Data could be transferred to PC by USB memory
- Controller SW can be upgraded through USB port.
- CE Certified
- PL(Product Liability) Insurance
- * Inner Tempered Glass Door with Silicone Packing offers easy Observation without Door Opening
- * Humidity Control by Capacitive Humidity Sensor provides Accurate Control from 30 to 95%RH
- * Smart-Lab™ Controller Provides Precise Temperature, Relative Humidity and Illumination Control - Maintain Uniformity and Accuracy of Growth Circumstance
- * 3-/4- Side Light Bank System: Intensity of Light is controlled by 8-levels and Displayed on LCD
- * Over Temperature & Over Current Protection, Sensor Error Detection, Leakage Breaking

Specification

Capacity & Models		& Models	432 Lit. "SWGC-450"	864 Lit. "SWGC-1000"
	Range & Variation		10°C ~ 60°C, ±1°C at 20°C	
Temp.	Fluctuation		± 0.5 °C at 10 °C, ± 0.5 °C at 25 °C (0% light intensity) ± 1 °C at 10 °C, ± 1 °C at 25 °C (100% light intensity)	
R		nge & Variation	30% ~ 95% RH, ±3% at 60°C	
Humidity	Fluctuation		±1%	
	Humidifier		Evaporation by Fan with Heater	
	Range		0 to 12,000 Lux	0 to 15,000 Lux
Illumination	Lamp		FPL 55W × 14	FPL 55W × 28
	Bank		3 Side Walls	3 Side Walls & Ceiling
Temp. & Humidity Sensor			Temp.: PT100, Humidity: Capacitive Sensor	
Heat-up Time (up to 37℃)			11 min. (0 % illumination) / 9 min. (100 % illumination)	
Cool-down Time (down to 10℃)		(down to 10℃)	13 min. (0 % illumination) / 15 min. (100 % illumination)	
Temp. Recovery (After Door was opened for 30sec)		pened for 30sec)	3 min. at 10℃, 1 min. at 37℃ (0 % illumination) 5 min. at 10℃, 1min. at 37℃ (100 % illumination)	
Heating Power /Consumption		for Temp.	1.5 kW	3.0 kW
		for Humi.	1.5 kW	3.0 kW
Compressor			1/2 HP	1HP
Refrigerant			CFC-Free(R404a) Refrigeration System	
Display			7" Full Touch Screen TFT LCD (Smart-Lab™ Controller)	
Controller			Smart-Lab™ Controller	
Program Function			Temperature and Humidity : 120 Patterns, 1,200 Segments Light Bank : 7 steps	
Door Internal External		Internal	Tempered Safety Glass with Silicon Packing	
		External	3-Side Magnetic Packing Door with Light Bank	
Shelves			4 Teflon Coated Steel Shelves	8 Teflon Coated Steel Shelves
Permitted Total Load		oad.	64 kg (16kg×4 Shelves)	128 kg (16kg×8 Shelves)
Safety Circuit			Over Temp Protector, Over Current & Leakage Breaker	
Material			Internal: Stainless Steel (#304), External: Power Coated Steel	
$\begin{array}{c} \textbf{Dimension} \\ \textbf{(w} \times \textbf{d} \times \textbf{h)} \end{array}$	Interior (mm)		650×700×1,050	1,200×790×1,050
	Exterior (mm)		850×1,090×1,965	1,400×1,150×1,965
Packing Size & Gross Weight		Fross Weight	1,400×1,220×h2,210mm, 435 kg	1,600×1,500×h2,200mm, 585 kg
Power Consumption		tion	4.8 kW	6.5 kW
Power Supply*			1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase with Terminal Block	

^{*} Other Specifications are available upon Customer's Request.

Description

Articles

< Continued from... Programmable Plant Growth Chamber, "WGC" >

Ordering Information

432 Lit. Plant Growth Chamber "SWGC-450", 0~12,000 Lux

DH.SWGC00450* Plant Growth Chamber, 230V, SWGC-450, with Terminal Block
DH.SWGC50450* , 120V, SWGC-450, with Terminal Block
DH.SWGC60450* , 3 Phase, SWGC-450, with Terminal Block

864 Lit. Plant Growth Chamber "SWGC-1000", 0~15,000 Lux

DH.SWGC01000* Plant Growth Chamber, 230V, SWGC-1000, with Terminal Block
DH.SWGC51000* , 120V, SWGC-1000, with Terminal Block
DH.SWGC61000* , 3 Phase, SWGC-1000, with Terminal Block

*-marks: Included Water Tank(with Silicon Tube) and Lux Meter

Spare Wire Shelves, Teflon Coated Steel

DH.WGC10450 (1) Wire Shelf, Teflon Coated, w640×d620mm, "GCS450", for WGC-450 DH.WGC11000 , w580×d620mm, "GCS1000", for WGC-1000

Validation (IQ, OQ) Service

DH.WGC30450 Validation Service(IQ, OQ), GCV450, for WGC-450
DH.WGC31000 , GCV1000, for WGC-1000

>>> DAIHAN WiRe™ App & Web Service



7" Full Touch Screen TFT LCD (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet and web without restraint of time and place.



WiRe[™] App & Web Service

※ Smart-Lab[™] System Refer to Page. P 8 ~P 13



Programmable Plant Growth Chamber "WGC-450"



(1) Wire Shelves, Teflon Coated Steel (Included)



Water Tank/Silicon Tube/Lux Meter (Included)