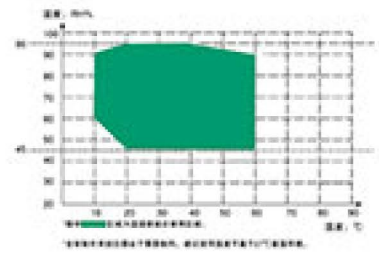# Climate Chamber with Humidity Control
Plant Growth Chamber

○ Light culture of microorganism, cell tissue, seedling, insect and small
  animal under the control of precise humidity.

Characteristics:

- Double door structure, with high quality stalinite to observe sample.
- 7.0 inch true color touch screen display, convenient to view historical temperature data and appointment auto start and stop.
- Full spectrum Multi–stage adjustable, 30 sections programmed Temp. LUX ,RH controller.
- Full spectrum LED top light source design, high illumination, low thermal radiation, long service life, removable Light partition, adjustable layer space.
- Internal humidification system. Small humidifier particles, high humidity uniformity, small water consumption, with automatic water intake, water shortage alarm function.
- The evaporator temperature is collectively controlled by the backflow valve and expansion valve, greatly prolonging the service life of the compressor.
- Imported high quality temperature sensor and compressor.

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Main Technical Parameters:

Model		FPG250	FPG350	FPG450
Cycle Mode		Forced convection, Rear micropore. Supply air in front of the plate		
Function	Temp. Range	Without illumination:0~65℃; With illumination:10~65℃		
	Temp. Resolution Ratio	0.1℃		
	Temp.Motion	±0.5℃		
	Temp. Uniformity	±1.0℃		
	illumination(LX)	Full spectrum0-30000LX many degrees for adjusting		
	Humidity Range	40%~95%RH		
	Humidity Motion	±5% RH		
Structure	Inner Chamber	SUS304satinless steel sheet		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Thermal Insulation Material	Polyurethane		
	Light barrier	Standard four layer full spectrum LED lamp board		
	Heater	Stainless steel heating tube		
	Power Rating	2.0kw	2.2kw	2.5kw
	Compressor	Air cooled hermetic compressor		
	Coolant	R134A		
	Defrosting Structure	Automatic		
	Humidity control mode	Automatic		
	Leading wire hole	The outer diameter of standard inflation port interface is 10mm		
Controller	Temp. control mode	30 sections program		
	Temp. setting mode	Touch screen settings		
	Temp. display mode	7.0 inch true color touch screen display		
	Operation function	Fixed tempperature operation,timing function,auto stop.		
	Program pattern	Standard configuration		
	Sensor	PT100 Temp. Sensor, Imported chip humidity sensor		
	Additional funciton	Appointment start/off, historical temperature and humidity data curve query, U disk data storage and export, Deviation correction, Menu key locking, Power failure compensation, Power failure memory, Loop self diagnosis, intelligent defrosting		
Safety device		Over tempperature will automatically cut off the heating, long-term under tempperature cut off the refrigeration systemp, protect the sample; loop self diagnosis		
Specification	Inner Chamber size(W*L*H)(mm)	600*500*840	630*580*960	630*670*1100
	Exterior size (W*L*H)(mm)	794*726*1600	824*806*1720	824*896*1860
	Packing size (W*L*H)(mm)	894*826*1800	924*906*1820	924*996*2060
	Volume	250L	350L	450L
	Load per rack	15kg		
	Shelf number	14	17	20
	Shelf space	50mm		
	Supply (50/60Hz) Current rating	AC220V/4.5A	AC220V/5.0A	AC220V/5.5A
	NW/GW (kg)	225/255	250/285	265/305
Accessory	Shelf	4		
	Shelf plate	8		
Optional accessories		Light barrier, USB interface and upper computer software, printer, wireless SMS alarm, CO2 concentration control		