

Technical datasheet

Shelf-Lit Plant Growth Chamber Series

Plant growth chambers with 0-70 °C temperature control and shelf-mounted LED lighting. Select model-specific light intensity, growing height and layer configuration.



Representative exterior view. Internal light sources are not shown; controls, cabinet size and shelf arrangement depend on the selected model and configuration.

Key features

Far-red, red, blue and white LED light sources
Independent light-intensity adjustment by layer
4.3-inch touchscreen, USB and RS-485

Standard Configuration

Temperature-controlled chamber with adjustable shelf-mounted LED light sources, 24-hour parameter scheduling, 4.3-inch LCD touchscreen, alarm history, data graphs and USB export, multi-level password access, one USB and one RS-485 interface, glass inner door, mechanical door lock and two 30 mm test ports. Supplied and maximum shelf/light-layer counts are listed by model.

Optional Accessories

Humidity, CO₂ and low-oxygen modules are documented options for PT-PGC-009-PT-PGC-013 only. The humidity module includes an ultrasonic humidification system and side-mounted water tank. Other models have no verified humidity/gas option in the available specifications. Additional lighting layers require configuration confirmation.

Technical Information

Parameter	Value
Temperature range	0-70 °C
Temperature resolution	0.1 °C
Temperature fluctuation	±0.5 °C (25 °C)

Model	Illuminance range (lux)	Light layers: supplied / maximum	Listed growing height (cm)	Total growing area (m²)
PT-PGC-009	0-65000	3/4	30	0.69
PT-PGC-010	0-65000	3/4	30	1.15
PT-PGC-011	0-65000	3/4	30	2.14
PT-PGC-012	0-65000	3/4	30	2.74
PT-PGC-013	0-65000	3/4	30	1.40
PT-PGC-014	0-40000	2/4	45	0.46
PT-PGC-015	0-40000	2/4	45	0.77
PT-PGC-016	0-40000	2/4	45	1.43
PT-PGC-017	0-40000	2/4	45	1.83
PT-PGC-018	0-40000	2/4	45	0.93

Technical Information

Model	Base input power (W)	With optional humidity module (W)	Temperature uniformity (25 °C)	Shelves: supplied / maximum
PT-PGC-009	1450	2050	±1 °C	3/4
PT-PGC-010	1750	2350	±1 °C	3/4
PT-PGC-011	3100	3700	±1.5 °C	3/4
PT-PGC-012	3350	3950	±1.5 °C	3/4
PT-PGC-013	1950	2550	±1 °C	3/4
PT-PGC-014	1450	Not specified	±1 °C	2/4
PT-PGC-015	1750	Not specified	±1 °C	2/4
PT-PGC-016	3100	Not specified	±1.5 °C	2/4
PT-PGC-017	3350	Not specified	±1.5 °C	2/4
PT-PGC-018	2150	Not specified	±1 °C	2/4

Parameter	Value
Verified humidity/gas option models	PT-PGC-009-PT-PGC-013
Optional humidity range	50-95% RH
Humidity fluctuation	±3-7%

Technical Information

Model	Chamber dimensions (mm)	External dimensions (mm)
PT-PGC-009	510 × 450 × 1090	650 × 880 × 1724
PT-PGC-010	600 × 640 × 1050	745 × 1070 × 1695
PT-PGC-011	1200 × 610 × 1100	1362 × 1068 × 1789
PT-PGC-012	1200 × 760 × 1100	1362 × 1168 × 1789
PT-PGC-013	600 × 780 × 1275	745 × 1226 × 1916
PT-PGC-014	510 × 450 × 1090	650 × 880 × 1724
PT-PGC-015	600 × 640 × 1050	745 × 1070 × 1695
PT-PGC-016	1200 × 610 × 1100	1362 × 1068 × 1789
PT-PGC-017	1200 × 760 × 1100	1362 × 1168 × 1789
PT-PGC-018	600 × 775 × 1275	745 × 1068 × 1695

Selection / Ordering Information

Specify model, plants or application, light intensity, growing height and layer arrangement. Confirm combined temperature/humidity/lighting conditions, mains supply, selected modules and the final configuration.