

Technical datasheet

Arabidopsis Growth Chamber Series

Controlled-temperature chambers for Arabidopsis studies, with shelf-mounted LED lighting and model-specific temperature and light ranges.



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 control with ultrasonic humidification and a side-mounted water tank is optional. The table distinguishes base power from power with this module. Confirm additional lighting layers, required growing height and the combined operating conditions in the quotation.

Technical Information

Parameter	Value
Temperature resolution	0.1 °C
Temperature fluctuation	±0.5 °C (25 °C)

Model	Temperature range	Temperature uniformity (25 °C)	Base input power (W)	With humidity module (W)
PT-PGC-024	0-70 °C	±1 °C	1450	2050
PT-PGC-025	0-70 °C	±1 °C	1750	2350
PT-PGC-026	0-70 °C	±1.5 °C	3100	3700
PT-PGC-027	5-70 °C	±1.5 °C	3350	3950
PT-PGC-028	0-70 °C	±1 °C	1950	2550

Technical Information

Model	Illuminance range (lux)	Light layers: supplied / maximum	Listed growing height (cm)	Total growing area (m²)
PT-PGC-024	0-20000	2/4	45	0.46
PT-PGC-025	0-20000	2/4	45	0.77
PT-PGC-026	0-20000	2/4	45	1.43
PT-PGC-027	0-15000	2/4	30	Confirm configuration
PT-PGC-028	0-20000	2/4	45	Confirm configuration

Technical Information

Model	Shelves: supplied / maximum	Chamber dimensions (mm)	External dimensions (mm)
PT-PGC-024	2/4	510 × 450 × 1090	650 × 880 × 1724
PT-PGC-025	2/4	600 × 640 × 1050	745 × 1070 × 1695
PT-PGC-026	2/4	1200 × 610 × 1100	1362 × 1068 × 1789
PT-PGC-027	2/4	1200 × 760 × 1100	1362 × 1168 × 1789
PT-PGC-028	2/4	600 × 775 × 1275	745 × 1068 × 1695

Parameter	Value
Optional humidity range	50-95% RH
Humidity fluctuation	±3-7%

Selection / Ordering Information

Specify model, organism or samples, temperature, light intensity, growing height and layer arrangement. Confirm mains supply, selected modules and combined operating conditions before ordering.