BIOTECHNOLOGY · PLANTS · ALGAE · ENTOMOLOGY

EGCS

PROline

High-end LED growth chambers

For plant growth, germination, tissue culture, algae and entomology. 18 volumes from 190 to 3,498 L, with precise control of temperature, humidity, light and airflow, and a configuration tailored to each trial.


PLANTS


GERMINATION


ALGAE


ENTOMOLOGY


EGCS 855 with LED lighting on the shelves

STANDARD TEMPERATURE	STANDARD HUMIDITY	LED INTENSITY AT 150 mm	VOLUMES	NATURAL REFRIGERANT
+4 to +60 °C	**30-90% RH**	**1,000 µmol/m²/s**	**18 models**	**R-290**
Optional down to -30 °C and up to +70/+80 °C	Extendable down to 10% and up to 95%	220 as standard; 1,000 with high-performance LED	From 190 to 3,498 L gross	GWP 3, free of CFC and HCFC

Climate

Temperature	+4 to +60 °C as standard, with or without lighting
Extended range	Down to -30 °C, up to +70 °C (+80 °C in some cases)
Stability	±0.3 °C at +27 °C · uniformity ±1 °C
Humidity (RH)	30-90% RH, ±3% RH, from +20 to +45 °C
Extended humidity	From 10% (with rotary dehumidifier) to 95% RH; 98% in some cases
Humidifier	Ultrasonic, fine droplets, without adding heat
Heating	Dual: hot gas bypass and stainless steel heaters
Cooling	R-290, hermetic compressor on shock absorbers
Ambient	+10 to +28 °C

LED lighting

Standard	Neutral white 4000 K, 220 µmol/m²/s at 150 mm
Photoperiod	Day, night and custom cycles; IP65 protection
High performance	Up to 1,000 µmol/m²/s at 150 mm (optional)
Channels	1, 3, 4 or 8 dimmable, from UV to far red
Colour	2700 to 7000 K (optional)
Position	Door (1S), sides (2S), both (3S) or shelves (1L-4L)

Airflow and control

EGCH airflow	Horizontal through both perforated side walls
EGCV airflow	Perforated rear wall; convertible to vertical
Air speed	Adjustable from the screen
Controller	Series 4500, PID, 7" colour touchscreen
Programs	Temperature, humidity, light and air segments
Data logging	Every 15 min, USB download, alarm history
Connectivity	Ethernet MODBUS TCP/IP, VNC, RS485 and potential-free contact
Safety	3 password levels, alarms and 24 h battery

Construction

Exterior	Epoxy-coated steel, wheels and adjustable feet
Interior	AISI 304 stainless steel, rounded corners and drain
Door	Solid, with lock; 6 mm inner glass door
Insulation	60 mm CFC-free injected polyurethane
Shelves	Perforated stainless, adjustable, up to 100 kg/m²
Cable port	One 40 mm diameter port, with plug
Power supply	230 V / 50 Hz (optional 110 V or 220 V at 60 Hz)

Models and dimensions

18 VOLUMES

MODEL	NET / GROSS VOLUME (L)	INTERIOR (mm)	EXTERIOR (mm)	SHELVES	SURFACE (m²)	LIGHT POSITIONS
EGCS 165 NEW	162 / 190	600 × 600 × 450	1,200 × 900 × 650	2	0.64	—
EGCS 195	185 / 190	520 × 620 × 550	725 × 800 × 1,000	1	0.29	1S-3S · 1L-2L
EGCS 355	306 / 350	760 × 620 × 650	800 × 800 × 1,200	2	0.64	1S-3S · 1L-2L
EGCS 405	214 / 390	410 × 435 × 1,200	650 × 600 × 1,690	4	0.60	1S-3S · 1L-3L
EGCS 505	416 / 490	605 × 625 × 1,100	850 × 800 × 1,730	3	0.96	1S-3S · 1L-3L
EGCS 605	424 / 590	605 × 540 × 1,300	850 × 700 × 1,980	4	1.12	1S-3S · 1L-3L
EGCS 705	492 / 665	605 × 625 × 1,300	850 × 800 × 1,980	3	0.96	1S-3S · 1L-3L
EGCS 755	605 / 735	605 × 625 × 1,600	1,200 × 800 × 1,980	4	1.28	1S-3S · 1L-4L
EGCS 855	690 / 860	850 × 625 × 1,300	1,100 × 800 × 1,980	4	1.92	1S-3S · 1L-4L
EGCS 1205	912 / 1,180	850 × 825 × 1,300	1,100 × 1,000 × 1,980	4	2.56	1S-3S · 1L-4L
EGCS 1505	1,178 / 1,490	1,450 × 625 × 1,300	1,700 × 800 × 1,980	4+4	2.56	1S-2S · 1L-4L
EGCS 1805	1,450 / 1,850	1,450 × 625 × 1,600	2,050 × 800 × 1,980	4+4	2.56	1S-2S · 1L-4L
EGCS 1905 NEW	1,690 / 1,904	2,000 × 650 × 1,300	2,250 × 900 × 1,980	4+4+4	3.84	—
EGCS 2205	1,745 / 2,190	1,450 × 925 × 1,300	1,700 × 1,100 × 1,980	4+4	3.84	1S-2S · 1L-4L
EGCS 2305 NEW	2,210 / 2,305	2,000 × 850 × 1,300	2,250 × 1,100 × 1,980	4+4+4	5.16	—
EGCS 2805	2,150 / 2,798	1,450 × 925 × 1,600	2,050 × 1,100 × 1,980	4+4	3.84	1S-2S · 1L-4L
EGCS 2905	2,410 / 2,950	2,410 × 625 × 1,600	3,000 × 800 × 1,980	4+4+4	3.84	1S · 1L-4L
EGCS 3505	2,880 / 3,498	1,950 × 925 × 1,600	2,550 × 1,100 × 1,980	4+4	5.68	1S · 1L-4L

Dimensions in mm (width × depth × height). Net / gross volume in litres. Each model is built with side-wall airflow (EGCHS) or rear-wall airflow (EGCVS), and with or without humidity control (HR). Light: S on door and side walls, L on shelves. Light positions for the new models: on request.

HOW TO READ THE MODEL CODE

EGC	H	S	855	HR	3L	LED
Growth chamber series	Side-wall (H) or rear-wall (V) airflow	With screen	Volume, see table	With humidity control	Light: 1S-3S on door and side walls, 1L-4L on shelves	LED lighting

Options and accessories

CLIMATE AND WATER

- Water-cooled condensing unit
- Reverse osmosis or continuous demineralisation
- External 20 L tank with pump
- Fog or dew and automatic irrigation
- Thermal and H_2O_2 decontamination

LIGHT AND MEASUREMENT

- Custom multi-channel spectra
- Transparent tray with light from below
- PAR quantum sensor and PPFD meter
- Spectral PAR meter
- UV tube for sterilisation

AIR, GASES AND INTERIOR

- CO_2 setpoint control (NDIR)
- CO_2 scrubber below ambient level
- Automatic or manual air renewal
- Reinforced telescopic shelf and shakers
- Internal double socket and extra ports

CONTROL AND FINISHES

- EQUITEC FITOCONTROL software
- GSM alarm module
- 7-day chart recorder and data loggers
- AISI 316 interior or AISI 304 exterior
- Tempered glass door

ALGAE PACK

- CO_2 setpoint control with NDIR sensor
- Multi-channel spectra and shakers
- ALGAEFLOW bubbling into flasks or tubes
- Transparent trays with light from below

ENTOMOLOGY PACK

- Flicker-free 2800 K warm white LED
- Mesh on motors and ducts, and HEPA filters
- External ultrasonic humidifier
- Mesh cages and phenolic-coated evaporator

The range at a glance

18 VOLUMES



EGCS 165 NEW
NET / GROSS VOLUME
162 / 190 L
EXTERIOR
1,200 × 900 × 650 mm
SHELVES
2 · 0.64 m²



EGCS 195
NET / GROSS VOLUME
185 / 190 L
EXTERIOR
725 × 800 × 1,000 mm
SHELVES
1 · 0.29 m²



EGCS 355
NET / GROSS VOLUME
306 / 350 L
EXTERIOR
800 × 800 × 1,200 mm
SHELVES
2 · 0.64 m²



EGCS 405
NET / GROSS VOLUME
214 / 390 L
EXTERIOR
650 × 600 × 1,690 mm
SHELVES
4 · 0.60 m²



EGCS 505
NET / GROSS VOLUME
416 / 490 L
EXTERIOR
850 × 800 × 1,730 mm
SHELVES
3 · 0.96 m²



EGCS 605
NET / GROSS VOLUME
424 / 590 L
EXTERIOR
850 × 700 × 1,980 mm
SHELVES
4 · 1.12 m²



EGCS 705
NET / GROSS VOLUME
492 / 665 L
EXTERIOR
850 × 800 × 1,980 mm
SHELVES
3 · 0.96 m²



EGCS 755
NET / GROSS VOLUME
605 / 735 L
EXTERIOR
1,200 × 800 × 1,980 mm
SHELVES
4 · 1.28 m²



EGCS 855
NET / GROSS VOLUME
690 / 860 L
EXTERIOR
1,100 × 800 × 1,980 mm
SHELVES
4 · 1.92 m²



EGCS 1205
NET / GROSS VOLUME
912 / 1,180 L
EXTERIOR
1,100 × 1,000 × 1,980 mm
SHELVES
4 · 2.56 m²



EGCS 1505
NET / GROSS VOLUME
1,178 / 1,490 L
EXTERIOR
1,700 × 800 × 1,980 mm
SHELVES
4+4 · 2.56 m²



EGCS 1805
NET / GROSS VOLUME
1,450 / 1,850 L
EXTERIOR
2,050 × 800 × 1,980 mm
SHELVES
4+4 · 2.56 m²



EGCS 1905 NEW
NET / GROSS VOLUME
1,690 / 1,904 L
EXTERIOR
2,250 × 900 × 1,980 mm
SHELVES
4+4+4 · 3.84 m²



EGCS 2205
NET / GROSS VOLUME
1,745 / 2,190 L
EXTERIOR
1,700 × 1,100 × 1,980 mm
SHELVES
4+4 · 3.84 m²



EGCS 2305 NEW
NET / GROSS VOLUME
2,210 / 2,305 L
EXTERIOR
2,250 × 1,100 × 1,980 mm
SHELVES
4+4+4 · 5.16 m²



EGCS 2805
NET / GROSS VOLUME
2,150 / 2,798 L
EXTERIOR
2,050 × 1,100 × 1,980 mm
SHELVES
4+4 · 3.84 m²



EGCS 2905
NET / GROSS VOLUME
2,410 / 2,950 L
EXTERIOR
3,000 × 800 × 1,980 mm
SHELVES
4+4+4 · 3.84 m²



EGCS 3505
NET / GROSS VOLUME
2,880 / 3,498 L
EXTERIOR
2,550 × 1,100 × 1,980 mm
SHELVES
4+4 · 5.68 m²

Images of the standard version, for guidance only. Light position, door type and finishes depend on the configuration.

Which EGCS does your trial need?

Tell us what you grow, how much growing area you need and what climate and light you are looking for. We will propose the model and configuration.

contact@testinglab.es · +34 918 273 484 · www.testinglab.es

ONLINE DATASHEET