BIOTECHNOLOGY | PLANTS

ERIS INOX LED

ECOline

LED growth chambers for plants

For plant physiology, germination, propagation, photoperiod studies and tissue culture. 5 volumes from 150 to 1,345 L in stainless steel, with temperature control, configurable LED lighting and, if needed, humidity.


TALL PLANTS


SHORT PLANTS


GERMINATION


TISSUE CULTURE


ERIS 855 INOX 3S LED: light on door and side walls

STANDARD TEMPERATURE	HUMIDITY (HR VERSION)	LED INTENSITY AT 150 mm	VOLUMES	NATURAL REFRIGERANT
+10 to +55 °C	**30-80% RH**	**220 µmol/m²/s**	**5 models**	**R-290**
Optional down to -10 °C or up to +60 °C	Extendable to 20% or 90%; 95% in limited cases	Standard; up to 450 optional, more on request	From 150 to 1,345 L gross	GWP 3, free of CFC and HCFC

Climate

Temperature	+10 to +55 °C as standard, with or without lighting
Extended range	Optional down to -10 °C or up to +60 °C
Stability	±0.3 °C at +27 °C · ±0.5 °C at +40 °C
Uniformity	±1 °C at +27 °C · ±0.5 °C at +40 °C
Humidity (RH)	30-80% RH, ±3% RH, from +20 to +45 °C
Extended humidity	Down to 20% or up to 90%; 95% in limited cases
Humidifier	Ultrasonic, fine droplets, without adding heat
Cooling	Air-cooled, hermetic compressor and R-290
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
Higher intensity	Up to 450 µmol/m²/s at 150 mm; more on request
Channels	1, 3, 4 or 8 dimmable, from UV to far red
3L LED version	One deep-red channel and two blue channels
Colour	2700 to 7000 K (optional)
Position	Door (1S), sides (2S), both (3S) or shelves (1L-4L)

Airflow and control

Airflow	Horizontal at shelf level, upward return
Air speed	0.1-0.8 m³/min, adjustable on screen (optional)
Controller	Series 4500, PID, 7" colour touchscreen
Programs	Segments: temperature, humidity, light and air
Data logging	Every 15 min, USB download and alarms
Connectivity	Ethernet MODBUS TCP/IP, VNC, RS485 and potential-free contact
Safety	3 password levels, alarms and 24 h battery
Software	EQUITEC FITOCONTROL (optional)

Construction

Exterior	Epoxy-coated steel
Interior	AISI 304 stainless steel, rounded corners and drain
Door	Solid, with lock
Insulation	45 (155), 55 (255, 455) or 75 mm (855, 1345)
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

5 VOLUMES

MODEL	NET / GROSS VOLUME (L)	INTERIOR (mm)	EXTERIOR (mm)	DOOR (mm)	SHELVES	SHELF (mm)	SURFACE PER SHELF (m²)	LIGHT POSITIONS
ERIS 155 INOX LED	105 / 150	505 × 451 × 617	605 × 695 × 830	505 × 550	2	458 × 398	0.18	1S-3S · 1L-2L
ERIS 255 INOX LED	222 / 250	520 × 468 × 913	675 × 765 × 1,540	560 × 855	3	470 × 443	0.21	1S-3S · 1L-3L
ERIS 455 INOX LED	384 / 455	570 × 504 × 1,338	670 × 785 × 1,955	570 × 1,388	4	500 × 443	0.22	1S-3S · 1L-4L
ERIS 855 INOX LED	718 / 855	645 × 803 × 1,338	797 × 1,085 × 1,955	605 × 1,350	4	595 × 745	0.44	1S-3S · 1L-4L
ERIS 1345 INOX LED	1,160 / 1,345	1,234 × 688 × 1,338	1,385 × 916 × 1,955	534 × 1,350	4+4	483 × 598	0.29	1S-3S · 1L-4L

Dimensions in mm (width × depth × height). Net / gross volume in litres. Door: clear opening (width × height). Shelf: width × depth. Each model is built with or without humidity control (ERIS HR). Light: S on door and side walls, L on shelves.

HOW TO READ THE MODEL CODE

ERI	S	855	INOX	3L	LED
Cooled incubator	With screen	Volume, see table	Stainless steel interior	Light: 1S-3S on door and side walls, 1L-4L on shelves	LED lighting

Options and accessories

WATER AND IRRIGATION

- Reverse osmosis for the humidifier
- Water loading/unloading pump
- Programmable irrigation: drip, mist, hydroponics…
- H_2O_2 decontamination (MycoFog)

LIGHT AND MEASUREMENT

- Custom spectra, from UV to far red
- Transparent shelf with light from below
- PAR quantum sensor, on-screen reading
- PG200N spectral PAR meter
- PPFD meter, 400 to 700 nm

AIR, CO_2 AND INTERIOR

- CO_2 setpoint control (NDIR)
- Air renewal with HEPA filters
- Manual air rosette
- Reinforced telescopic shelf
- Orbital or reciprocating shakers
- Internal double socket

CONTROL AND FINISHES

- EQUITEC FITOCONTROL software
- SMS alerts with GSM modem
- 48 or 72 h battery, depending on model
- Tempered glass door or 6 mm inner door
- AISI 316 or epoxy interior, AISI 304 exterior

HOW TO CHOOSE THE MODEL

1 Crop height
For tall plants, light on the door and side walls (1S-3S). For seedlings, plates or in vitro cultures, light on each shelf (1L-4L).

2 Lit shelves
They set how many trays you can grow at the same time: up to 2L on the ERIS 155, 3L on the 255 and 4L on the others.

3 Spectrum
For light quality trials, choose the multi-channel version, with 1, 3, 4 or 8 dimmable channels.

4 Temperature range
Below +10 °C or above +55 °C, order the extended version: down to -10 °C or up to +60 °C.

The range at a glance

5 VOLUMES



ERIS 155 INOX LED

NET / GROSS VOLUME
105 / 150 L

EXTERIOR
605 × 695 × 830 mm

DOOR (CLEAR OPENING)
505 × 550 mm

SHELVES
2 · 458 × 398 mm



ERIS 255 INOX LED

NET / GROSS VOLUME
222 / 250 L

EXTERIOR
675 × 765 × 1,540 mm

DOOR (CLEAR OPENING)
560 × 855 mm

SHELVES
3 · 470 × 443 mm



ERIS 455 INOX LED

NET / GROSS VOLUME
384 / 455 L

EXTERIOR
670 × 785 × 1,955 mm

DOOR (CLEAR OPENING)
570 × 1,388 mm

SHELVES
4 · 500 × 443 mm



ERIS 855 INOX LED

NET / GROSS VOLUME
718 / 855 L

EXTERIOR
797 × 1,085 × 1,955 mm

DOOR (CLEAR OPENING)
605 × 1,350 mm

SHELVES
4 · 595 × 745 mm



ERIS 1345 INOX LED

NET / GROSS VOLUME
1,160 / 1,345 L

EXTERIOR
1,385 × 916 × 1,955 mm

DOOR (CLEAR OPENING)
534 × 1,350 mm

SHELVES
4+4 · 483 × 598 mm

Images of the standard version, for guidance only. Light position, door type and finishes depend on the configuration. Shelves: number and size (width × depth).

Which ERIS INOX LED 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.

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ONLINE DATASHEET