

# Refrigerated Incubators with lights

UPRIGHT MODELS

GENERAL PURPOSE LABORATORY GROWTH TEST CHAMBERS  
WITH HUMIDITY CONTROL MODELS EGC/HR



+0°...+55°  
40%...98%



EGC 701/HR  
with optional internal glass door and LED illumination

#### SPECIAL DESIGN FOR:

- CONSTANT TEST
- ARABIDOPSIS
- INSECT INCUBATION
- PLANT GROWTH
- TISSUE CULTURE
- SEED STORAGE

LABORATORY REFRIGERATED INCUBATORS WITH LIGHTS  
WITH VENTILATED AIR COOLING  
MODELS EGC FROM 0° C TO +55° C



EGC 701/HR  
with optional  
internal glass door

LABORATORY GROWTH TEST CHAMBERS Models EGC and EGC/HR

- Luminosity intensity control, photoperiod day/night.
- Differentiated temperature control: day/night.
- Temperature range from 2° C to +55° C with lights OFF and +4° C to +45° C with lights ON.
- Audible and visual independent alarms for maximum temperature.
- Security thermostat, protect again over or lower temperature.
- Digital display for temperature and control.
- Accuracy of +/- 0.1°C, on the display.
- Homogeneity of +/- 1° C, in the chamber at 40° C.
- Stability of +/- 0.3° C, in the chamber at 40° C
- Microprocessor for parameters control with PID system.
- Temperature probe Pt 100, resolution 0,1° C.
- Luminosity intensity control until in 6 different levels, 12.000 lux (145 µMol/m<sup>2</sup>.s), at more than 30° C.
- Optional: Shelve with fluorescent tubes (4x36W) 14.000 lux (170 µMol/m<sup>2</sup>.s).

TECHNICAL SPECIFICATIONS

- Thermal glass internal door (optional).
- Locked main power switch (on/off).
- Solid door with opening aids and big sized handle.
- Touch control panel.
- Locked main power switch (on/off).
- Indication for door open, with audible and visible alarms.
- Temperature controller with retro-illuminated crystal liquid screen, (optional).
- Available to simulate sunset and sunrise, (optional).
- Temperature light intensity and humidity level can be programmed in each step.
- The equipment can work continuously with the same programm continuously cycle or stop after end off programm cycle, programmable options.
- 6 different levels of light intensity from darkness up to 21 fluorescent tubes maximal, with 30W power each tube.
- Audible and visible alarms, until selected temperature reestablishment.
- Ventilated air circulation cooling system, distributed uniformly upward, with high homogeneity of the temperature inside the chamber.
- Cooling gas R404a, CFC and HCFC free, biodegradable.
- Hermetic compressor, built over dampers, low noise < 48dB.
- Independent cooling and heating systems.
- Evaporator with automatic defrost, probe controlled.
- Stainless steel AISI 304 internal chamber.
- Round corners for easy cleaning.
- Shelves of stainless steel 18/8, grill type, with heigh regulation.
- Perimeter gasket, heat resistant, for a perfect closing of the door.
- Insulation 60 mm of high density injected polyurethane, CFC and HCFC free.
- Base with 4 castors, for easy movement (optional).
- Tropical treatment, to allow work until +38° C working area temperature.

Light power intensity adjustable until 12.000 lux (145 µMol/m<sup>2</sup>.s) at more than 30° C, measured in the chamber centre.

Lights system placed on sides or frontal doors, avoid the lights thermal increment inside the chamber and allow easy change of tubes.

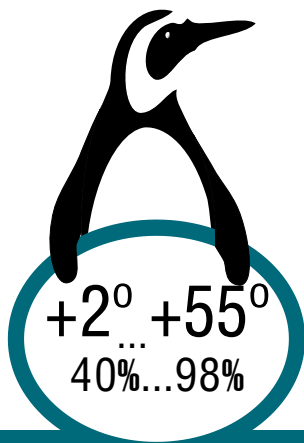
Lights system with maximal 21x30W fluorescent tubes with day light type 084, same as sun light spectrum.

Models without humidit	Models with humidity control	Capacity in Litres	Internal/ External	N° of shelves	Power consume in W*	Compressors HP	Internal Dimen. in mm wide x depth x high	External Dimen. in mm wide x depth x high	Packing Weight in Kg gross/net	Packing Volume in m <sup>3</sup>
EGC 501	EGC 501 HR	501	Inox*	3	600	1/4	530 x 560 x 1320	650 x 725 x 2040	130/120	1.0
EGC 701	EGC 701 HR	700	Inox*	4	500	3/8	590 x 700 x 1390	710 x 850 x 2130	190/170	1.6
EGC 1501	EGC 1501 HR	1500	Inox*	4+4	725	3/8	1300 x 700 x 1390	1420 x 850 x 2130	240/200	2.9

1 cu ft = 28,3 litres. 1 inch = 25,4 mm.

# Refrigerated Incubators with lights

UPRIGHT MODELS



GENERAL PURPOSE LABORATORY  
GROWTH TEST CHAMBERS  
WITH HUMIDITY CONTROL  
MODELS GCR/HR

GCR 701/HR





EGC 1501/HR

### TECHNICAL SPECIFICATIONS

- Differentiated temperature control: day/night.  
Temperature range from +2° C to +55° C with lights OFF and +4° C to +45° C with lights ON.
- Humidity control: range from 40 to 98% R.H. (+/-3 ° C), in a temperature range from +19° C to +40° C.
- Luminosity intensity control: day/night time period program.
- Programmable temperatures day/night.
- Temperature range from +2° C to +55° C with lights OFF and +12° C to +50° C with lights ON.
- Digital displays for temperature photoperiod, day/night.
- Accuracy of +/- 0.1°C, on the display.
- Homogeneity of +/- 1° C, in the chamber at 40° C.
- Stability of +/- 0.3° C, in the chamber at 40° C
- Ventilated air circulation cooling system, distributed uniformly upward, with high homogeneity of the temperature inside the chamber.
- Microprocessor for control and programming all parameters.
- Temperature probe Pt 100, resolution of 0.1 °C.
- Security thermostat , protect the test again over temperature.
- Luminosity intensity control until 10.000 lux (120 µMol/m<sup>2</sup>.s), at more than 30° C, lights are controlled in different intensity levels.
- Optional: Shelves with fluorescent tubes (4x36W) 14.000 lux (170 µMol/m<sup>2</sup>.s).
- Electronic probe for the humidity measurement (4-20 mA) with accuracy of +/-2%.
- Humidity generator by ultrasound to introduce in the chamber microscopic water drops at ambient temperature (in models EGC/HR).
- Humidity dry system over cooling generator, by condensation (in models EGC/HR).

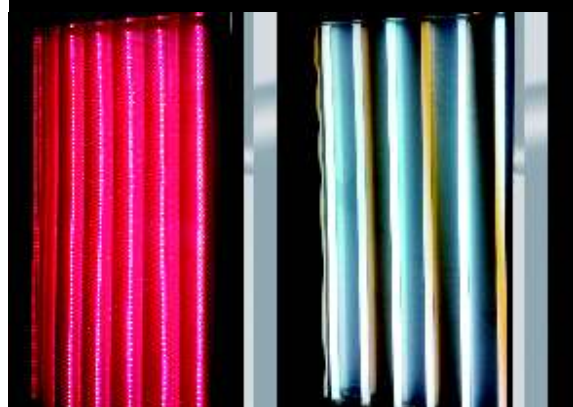
REST OF TECHNICAL SPECIFICATIONS as in EGC MODELS , see in Page 13.

### OPTIONAL ACCESSORIES FOR MODELS GROW AND EGC/HR

- Additional lights inside the chamber.  
Different configurations of lights place under request (top, shelves, sides, back, etc...).
- Air drying system 15% R.H. at 4°C.
- Internal or external glass door.
- Temperature and /or humidity circular chart recorder for 7 days, with independent battery back-up, works even with power failures.
- Printer for temperature and /or humidity records.
- Remote control interface connection RS 485/232.
- Potential free out put for remote alarm control.
- Data loggers.
- USB storage data control system.
- GSM phone alarm module.
- Access ports for cables and external instruments.
- Internal plugs inside the chambers, for any kind of test.
- PC software communication on request.
- UV light tubes for sterilization.

### SPECIAL OPTIONAL ACCESORIES

LED illumination system  
with RGB diodes.



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