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fitotron

EGR Economy Growth Rooms (FL)

# fitotron® EGR Economy Growth Rooms (FL)

The fitotron® EGR Economy Growth Rooms (FL, fluorescent version) have been designed as a cost effective option for when the primary objective is to grow large amounts of plant material in standard controlled conditions.

fitotron® EGR Economy Growth Rooms enable the grower to maintain controlled growing conditions of temperature and humidity in a 24h period with independent selection of photo periods. A full range of 'day/night' cycles can be programmed. They are ideal for the researcher to grow large amounts of a variety of plant materials in a standard performance envelope without compromising flexibility or control.

The fitotron® EGR Economy Growth Room multi-tier version has three levels of illuminated growing areas in free standing mobile lamp frames. The user is able to individually control temperature, humidity and various light intensities.

## Features and Benefits:

- Designed for maximum flexibility with height adjustable and removable growing units
- Modular and custom sizes - flexible installation possibilities
- Full additive humidity control as standard
- Ventilated lighting units for superior temperature uniformity

## Global Service and Support

The training undertaken by our agents and engineers is state-of-the-art in the industry, ensuring that our customers are supported by high-level technical expertise. Our customers can be assured that their equipment will perform to the required standard.

## Options

- LED-lighting technology
- Water-cooled refrigeration
- CO<sub>2</sub> control
- Additional flexibility using mobile, multi-tiered light racks and growing benches
- Biological containment filtration



# Room Specifications

fitotron® Model	EGR213 (FL)	EGR223 (FL)	EGR233 (FL)
Growth area (over 3 tiers in m <sup>2</sup> )	8.16	16.32	24.48
Growth height (optimum in mm) <sup>1</sup>	500 (all models)		
Exterior (wxdxh in mm)	3110x2110x2750	3110x3710x2750	3110x5260x2750
Interior (wxdxh in mm)	2950x1950x2650	2950x3550x2650	2950x5100x2650
Temperature range: Lights off Lights on	+15 °C to +30 °C (all models) +15 °C to +30 °C (all models)		
Temperature fluctuation with time	±0.5 °C (all models)		
Humidity range: Lights off (additive only) Lights on	Up to 85% RH (all models) Up to 80% RH (all models)		
Maximum dewpoint: Lights off Lights on	+24 °C (all models) +20 °C (all models)		
Humidity fluctuation in time <sup>2</sup>	±2% RH (all models)		
Maximum lighting intensity <sup>3,4</sup>	230 μmol m <sup>-2</sup> s <sup>-1</sup> (all models)		
Electrical connection <sup>5</sup>	3 Ph/N/E 380 V-440 V 50 Hz (all models)		

<sup>1</sup>Optimum growing height on all 3 tiers with adjustable shelving equally spaced. With tiers removed, greater growing heights can be achieved

<sup>2</sup>When additive humidity is active

<sup>3</sup>Measured in the centre of the growing area, 300 mm below the lamps at 25 °C

<sup>4</sup>Option of 280 μmol with reduction in growing area

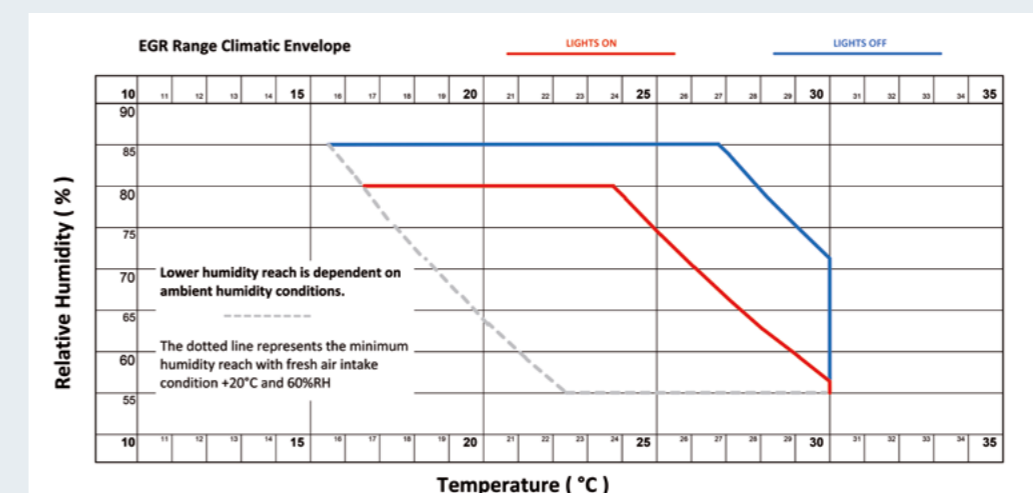
<sup>5</sup>60 Hz also available

## Humidification

Humidification is maintained by injection of sterile steam at ambient pressure, preventing harmful bacteria (including legionella) from entering the room, creating a safe working environment. The system benefits from extended periods between maintenance and does not require a compressed air supply.

## Airflow

The Air Handling Unit (AHU) is located in the ceiling of the room. Conditioned air is delivered to specially designed, high-level ducting, to ensure uniform air distribution. Air is returned to the AHU in the centre of the room.



Information subject to change without written notice.

# Passionately innovative.

**We work in partnership to support companies in research, development, production and quality assurance, with 22 companies in 15 countries at 40 locations.**

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