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fitotron

EGR Economy Growth Rooms (MH)

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The fitotron® EGR Economy Growth Rooms (MH, metal halide 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.

The fitotron® EGR Economy Growth Room (MH) is ideal for the cultivation of plants requiring medium to high light levels (e.g. C4 plants.) The user is able to individually control temperature, humidity and various light intensities.

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 with 'dawn/dusk' effects can be programmed.

Features and Benefits:

- 2.5 m growing height for tall plants
- Variable high light intensity from 100% to 0% in 5 steps
- Ceramic metal halide lighting
- Programmable controller with user-friendly, colour-touchscreen interface
- Full additive humidity control as standard

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
- CO₂ control
- Extension of minimum temperature to +4 °C (lights off/minimum) for vernalisation studies
- Biological containment filtration



Room Specifications

fitotron® Model	EGR4025 (MH)	EGR8025 (MH)	EGR12025 (MH)
Growth area (in m ²)	3.8	8.0	12.4
Maximum growth height in mm	2500 (all models)		
Exterior (wxdxh in mm)	3110x2110x3200	3110x3710x3200	3110x5260x3200
Interior (wxdxh in mm)	2950x1950x3100	2950x3550x3100	2950x5100x3100
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 ¹	±2% RH (all models)		
Maximum lighting intensity ²	600 μmol m ⁻² s ⁻¹ (all models)		
Electrical connection ³	3 Ph/N/E 380 V-440 V 50 Hz (all models)		

¹When additive humidity is active

²Measured in the centre of the growing area, 1000 mm below the lamps at 25 °C

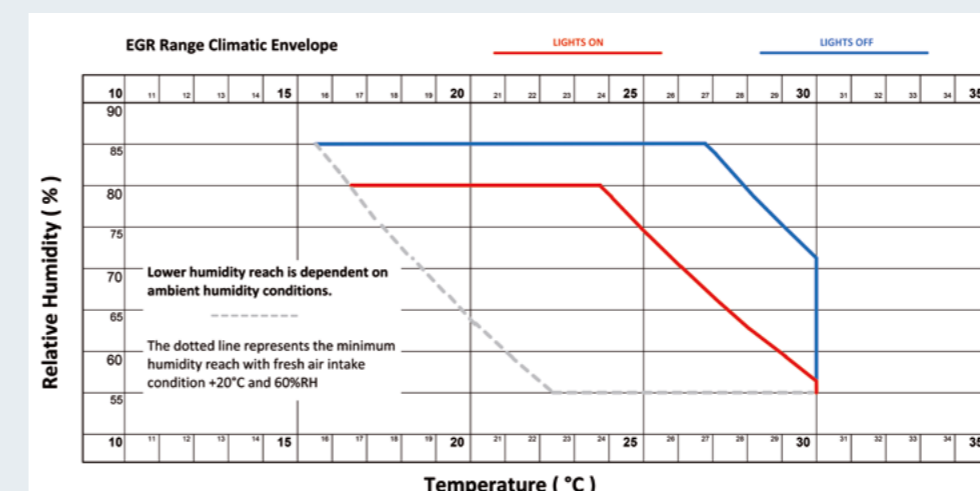
³60 Hz also available, dependent on installation country

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

Airflow is downwards from ceiling mounted ducts to minimise temperature variations in the plant canopy. Fresh air is exchanged at up to 4 volumes per hour. Exhaust air is filtered and fan assisted.



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As the leading provider of cleanrooms, air-conditioning technology and air dehumidification, we consistently ensure optimal ambient conditions for people and machines. For industrial production processes, in hospitals, mobile operating tents or in the field of information and telecommunications technology. From project planning to implementation.



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Experienced engineers and designers develop, plan and produce high-quality, reliable heating technology systems for a broad range of uses from heating and drying cabinets and microwave systems through to industrial furnaces.



Clean air and containment systems

With decades of experience and know-how, we guarantee the most sophisticated clean air and containment solutions. Our comprehensive and innovative range of products includes barrier systems, laminar flow systems, safety workbenches, isolators and airlock gate systems.

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