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a schunk company

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 levels of light intensity.

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

- Water-cooled refrigeration
- LED-lighting technology
- 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)	3110x1960x3200	3110x3610x3200	3110x5260x3200
Interior (wxdxh in mm)	2950x1800x3100	2950x3450x3100	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

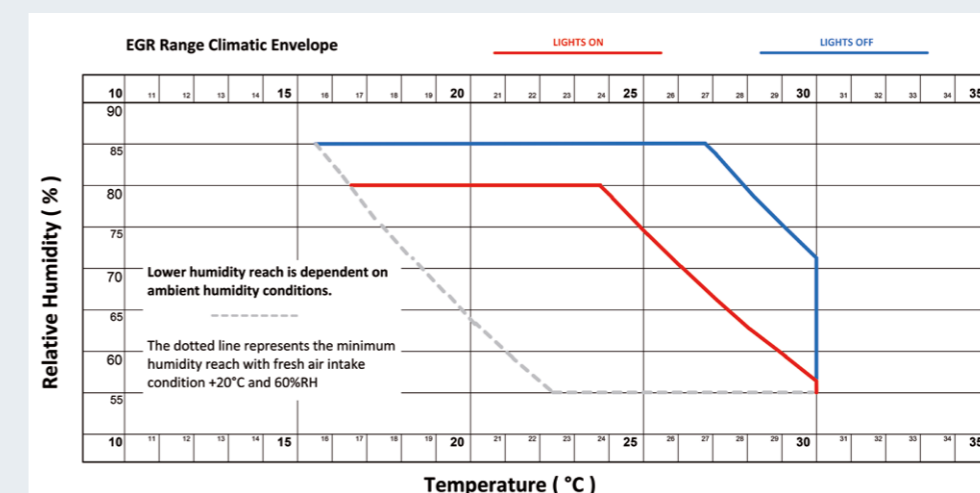
³60 Hz also available, dependent on installation country

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.



Information subject to change without written notice.

weisstechnik®

Test it. Heat it. Cool it.

Our solutions are deployed around the world in research, development, production and quality assurance of numerous products. Our experts from 21 companies are at your service in 14 countries, ready to provide support to ensure high operational reliability of your systems.

Weiss Umwelttechnik is one of the most innovative and significant manufacturers of environmental simulation systems. With these testing systems, we can simulate all climatic conditions around the globe and beyond, under accelerated conditions. Whether temperature, climate, corrosion, dust or combined shock testing: We have the proper solution. We supply systems in all sizes, from standard versions up to customised, process-integrated facilities - for high reproducibility and precise test results.

Weiss Technik UK, a subsidiary of Weiss Umwelttechnik, has been one of the leading global suppliers of plant growth chambers and rooms for more than 50 years. We can supply, install and support our products in virtually every country in the world. **fitotron®**, our premier product brand, ranges from standard chambers to custom solutions including applications in plant growth, Arabidopsis, tissue culture, seed germination and storage, entomology and other specialist storage and test. We have a particularly successful track record in managing large multi-room installation projects and in finding workable solutions for customer needs, whether that be in lighting, containment, airflow, shelving and racking, gas control or remote monitoring and control software.

Vötsch Industrietechnik, another subsidiary of Weiss Umwelttechnik, offers a wide product portfolio in the field of heating technology. With an experienced team of engineers and designers, we develop, plan and produce high-quality and reliable heating technology systems for virtually any field of application. Products include heating/drying ovens, clean room drying ovens, hot-air sterilisers, microwave systems and industrial ovens. The portfolio reaches from technologically sophisticated standard versions to customised solutions for individual production operations.

A further Weiss Technik company, Weiss Klimatechnik, also offers reliable climate solutions wherever people and machinery are challenged: in industrial production processes, hospitals, mobile operating tents or in the area of IT and telecommunications technology. As one of the leading providers of professional clean room and climate solutions, we deliver effective and energy-saving solutions. Our experts will guide you from the planning to the implementation of your projects.

Weiss Pharmatechnik, a subsidiary of Weiss Klimatechnik, is a competent provider of sophisticated clean room and containment solutions. The product range includes barrier systems, laminar flow facilities, security workbenches, isolators and double door systems. The company emerged from Weiss GWE and BDK Luft- und Reinraumtechnik and has decade-long experience in clean room technology.

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