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fitotron[®]

EGR Economy Growth Rooms (FL)

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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 levels of light intensity.

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
- CO₂ control
- Biological containment filtration
- Higher lighting option (280 μmol m⁻² s⁻¹) with reduced growth area



Room Specifications

fitotron® Model	EGR213 (FL)	EGR223 (FL)	EGR233 (FL)
Growth area (over 3 tiers in m ²)	8.16	16.32	24.48
Growth height (optimum in mm) ¹	500 (all models)		
Exterior (wxdxh in mm)	3110x1960x2750	3110x3610x2750	3110x5260x2750
Interior (wxdxh in mm)	2950x1800x2650	2950x3450x2650	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 ²	±2% RH (all models)		
Maximum lighting intensity ^{3,4}	230 μmol m ⁻² s ⁻¹ (all models)		
Electrical connection ⁵	3 Ph/N/E 380 V-440 V 50 Hz (all models)		

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

²When additive humidity is active

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

⁴Option of 280 μmol with reduction in growing area

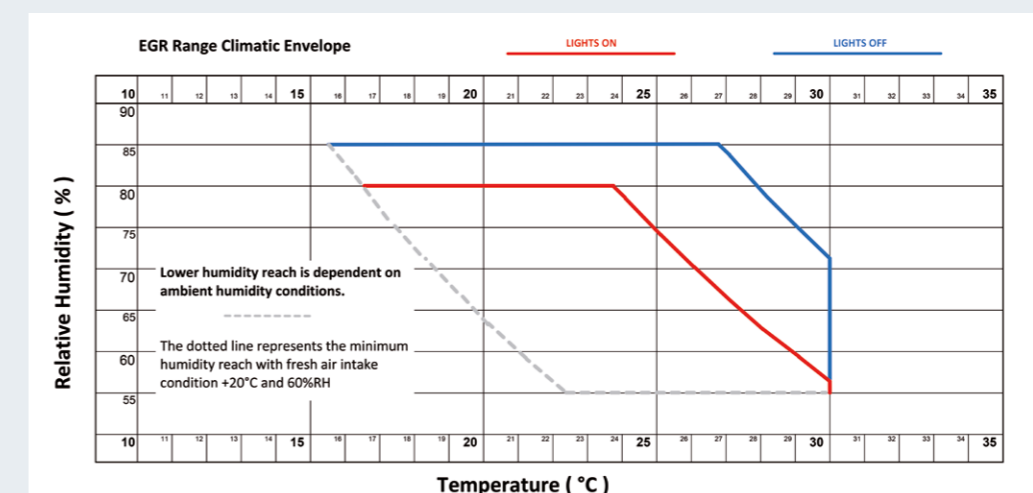
⁵60 Hz also available

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

Airflow is downwards from ceiling mounted dual diffusers. Each light tray incorporates integral fans to aid air distribution. 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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