HGC High Specification Growth Chambers
fitotron® HGC High Specification Growth Chambers

fitotron® HGC High Specification Growth Chambers are based on a modular design with very high performance. They are available in three sizes for plants that require high light intensities.

The fitotron® HGC High Specification Growth Chamber Range offers a modular concept and high accuracy and reliability in the control of temperature, humidity and lighting.

Our chambers enable the researcher to maintain controlled growing conditions of temperature and humidity in a 24 h period with independent selection of photoperiods.

With light intensity of up to 1000 µmol m$^{-2}$s$^{-1}$ at 500 mm, they are ideally suited to growing plants requiring high light, such as wheat, maize, cotton and rice. With growth heights of up to 2100 mm they are also ideally suited to growing large plants through to maturity.

fitotron® HGC High Specification Growth Chambers combine high quality components, design, and manufacturing expertise. This enables us to offer out-standing control, performance and integrity of all parameters. Our policy of continual liaison with leading researchers ensures we maintain our premier position as suppliers of high quality plant growth chambers and rooms.

Features and Benefits:

• Choice of high frequency fluorescent or ceramic metal halide lamps with light intensities from 450 µmol m$^{-2}$s$^{-1}$ at 200 mm to 1000 µmol m$^{-2}$s$^{-1}$ at 500 mm
• Full humidity control with both additive and dehumidification as standard
• Higher intensity light sources separated and independently heat managed for superior temperature uniformity in the growing space
• Choice of vertical or horizontal airflow for temperature uniformity across the plant canopy

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 the highest level of technical expertise. Our customers can be assured that their equipment will perform to the required standard at all times.

Options

• LED-lighting technology
• Water-cooled refrigeration
• CO₂ control
• Growth height extension
• Low temperature module
• SIMPATI® control software

Humidification

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

weiss technik
Test it. Heat it. Cool it.

Environmental simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world and even in space. In temperature, climate, corrosive, dust or combined stress testing with its very high degree of reproducibility and precision.

Air-conditioning technology, air dehumidification, cleanrooms

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.

Heating technology

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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