

Fitotron

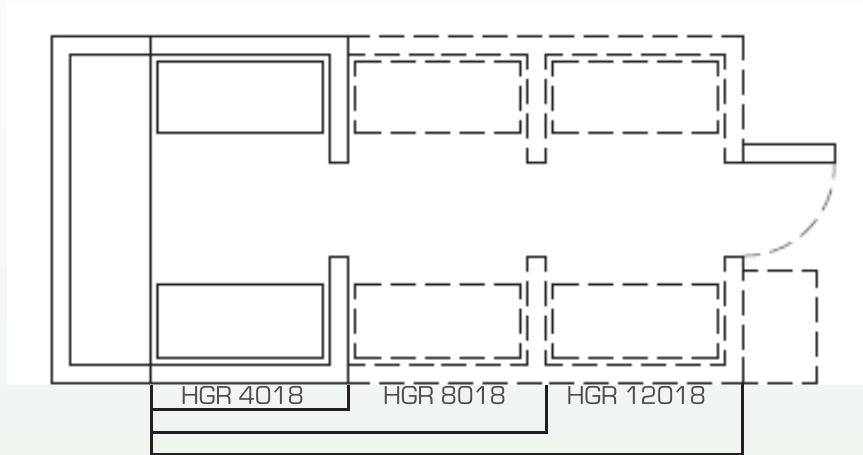
High Specification Plant Growth Rooms



WEISS
Gallenkamp

High Specification Plant Growth Rooms

The concept of the Fitotron® High Specification Growth Rooms (HGR's) is based on application orientated modularity. Light intensity, growth height, temperature range and type of airflow can all be selected by the user. The standard airflow is vertical via a perforated floor. Growth area ranges from 4m² to 12m².



Performance

Temperature range +5°C to +45°C lights off
+10°C to +45°C lights on

Humidity range 40%RH to 95%RH lights off
40%RH to 85%RH lights on

Lighting intensity **Module 1**
450 $\mu\text{mol.m}^{-2}\text{s}^{-1}$ @ 200mm
Fluorescent lamps

Module 1V
As above but vertically adjustable height

Module 2
Metal halide & krypton lamps
700 $\mu\text{mol.m}^{-2}\text{s}^{-1}$ @ 500mm

Module 3
Metal halide & krypton lamps
1000 $\mu\text{mol.m}^{-2}\text{s}^{-1}$ @ 500mm

Airflow Horizontal or vertical

Several additional options are available:

- Low temperature module capable of achieving -10°C
- Fluorescent, metal halide, UV lighting



High Specification Plant Growth Rooms

Fitotron® High Specification Plant Growth Rooms are constructed from insulated materials and the rooms are sealed vapour-tight. The material ensures excellent heat insulation which contributes to the high constancy of climatic conditions and to the reduction of operating costs.



Bespoke Plant Growth Rooms

We specialise in the design and build of bespoke Plant Growth Rooms where performance requirements fall outside the standard range. Over many years, we have developed the knowledge and experience to provide turnkey projects to major research and educational establishments worldwide.

Weiss Gallenkamp:

- Works with clients, architects and design consultants to define user specifications and engineering requirements
- Designs cost-effective solutions
- Manages the implementation in consultation with all other contractors



Examples of our capabilities for bespoke facilities include:

Extremes of Temperature

Arctic and tropical climates can be accurately simulated in Fitotron® Plant Growth Rooms.

Category 3 Containment

- Special filtration change systems
- Independent air circulation
- 2 levels of pressure differential - under and over pressure to prevent contamination and leakages

Lighting Capabilities

As part of our standard and bespoke range, we offer a variety of lighting including UV, fluorescent, LED and metal halide, which can be fitted into a room in order to give high light intensities.

Global Service and Support

The training undertaken by our agents and engineers is of the highest standard in the industry, ensuring that our customers are supported by the highest level of technical expertise and as such can be assured that their equipment will perform to the standards required at all times.

To contact your local Fitotron agent, please email enquiries@weiss-gallenkamp.com



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