CGR Crop Growth Rooms
**fitotron® CGR Crop Growth Rooms**

Fitotron® CGR Crop Growth Rooms are based on a modular design with very high performance. They are available with five growing areas for plants that require very high light intensities with a balanced spectrum, from 4m² to 18m².

The innovative design of the fitotron® CGR Crop Growth Rooms incorporates growing heights of up to 2.5 m. Very high light intensities are available up to 1600 µmol m⁻² s⁻¹ utilising the latest ceramic metal halide technology. The lamps are separated from the growing space by a transparent barrier and are independently cooled for optimum performance and excellent control of growing conditions.

The user is able to individually control temperature, humidity and very high light intensities.

Our range of Crop Growth Rooms enables the researcher 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:**
- Designed for plants requiring high light levels (e.g. C4 plants) and extended growing heights up to 2500 mm
- Variable high light intensity up to 1600 µmol m⁻² s⁻¹ at 1000 mm
- Modular and custom sizes - flexible installation possibilities
- Full humidity control with both additive and dehumidification 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.

**Room Specifications**

<table>
<thead>
<tr>
<th>fitotron® Model</th>
<th>CGR4025</th>
<th>CGR6025</th>
<th>CGR8025</th>
<th>CGR12025</th>
<th>CGR18025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth area (in m²)</td>
<td>4.14</td>
<td>6.21</td>
<td>8.14</td>
<td>12.10</td>
<td>18.04</td>
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<tr>
<td>Growth height (maximum in mm)</td>
<td>2500 (all models)</td>
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<tr>
<td>Exterior (w x d x h in mm)</td>
<td>2350 x 3060 x 3180</td>
<td>2350 x 4215 x 3180</td>
<td>2910 x 4925 x 3180</td>
<td>2910 x 6300 x 3180</td>
<td>4080 x 6300 x 3180</td>
</tr>
<tr>
<td>Interior (w x d in mm)²</td>
<td>1800, 2190 x 2300</td>
<td>1800, 2190 x 3450</td>
<td>2360, 2750 x 3450</td>
<td>2360, 2750 x 5125</td>
<td>3520, 3920 x 5125</td>
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<tr>
<td>Temperature range: Lights off</td>
<td>+4 °C to +45 °C (all models)</td>
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<tr>
<td>Temperature range: Lights on</td>
<td>+4 °C to +45 °C (all models)</td>
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<tr>
<td>Humidity range: Lights off</td>
<td>±0.5 °C (all models)</td>
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<tr>
<td>Humidity range: Lights on</td>
<td>±0.5 °C (all models)</td>
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<tr>
<td>Dewpoint range</td>
<td>+8 °C to +28 °C (all models)</td>
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<tr>
<td>Humidity fluctuation with time</td>
<td>±5 % RH (all models)</td>
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<tr>
<td>Maximum lighting intensity*</td>
<td>1200 µmol m⁻² s⁻¹ (standard all models 1600 µmol m⁻² s⁻¹ available as an option)</td>
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<tr>
<td>Electrical connection*</td>
<td>3 Ph/N/E 380 V–440 V 50 Hz (all models)</td>
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</tbody>
</table>

*Minimum width at floor level
*Maximum width at bench level (growing benches - optional)
*Measured at 1000 mm from the transparent lamp barrier
*60 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 vertically downwards to ensure even temperature across the whole plant canopy. The conditioned air is delivered via high-level ducting running along the centre of the room and returned to the air-handling unit via ducting at low level alongside each side wall.
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.

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Air-conditioning technology, air dehumidification, cleanrooms
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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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