GEN1000-GE

Product Overview

The GEN1000-GE is specifically designed for gauging the health and performance of various seed lots under a wide range of environmental conditions. Applications include determining germination rates, vigor, seedling growth rates and other testing where tight environmental control is required. This chamber comes standard with exceptional temperature and light uniformity and high humidity control. The interior features a reflective white corrosion resistant design with five shelves on the base unit and up to 10 additional shelves as an option, to maximize capacity.

Lighting

Standard lighting on the GEN1000-GE chamber includes two light fixtures mounted vertically on the interior back of the cabinet and two on the door for uniform light throughout the growth area.

Airflow

Uniform airflow is introduced to the germination area horizontally from a perforated rear wall plenum. Adjustable fan speed control is available through the controller. The unit accommodates a wide range of experiment formats while providing excellent uniformity throughout the entire chamber volume for use of flats, blotter papers, shallow containers, or similar research vessels. An adjustable fresh air intake port allows for optimal air exchange.

Refrigeration

The standard air-cooled refrigeration system is optimized to ensure adequate capacity for delivery of uniform conditions. The chamber is supplied with a top mounted, air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended compressor life and close temperature control.

Key Product Attributes

- Easy to install, use and maintain
- Engineered horizontal airflow for optimal temperature uniformity
- High relative humidity - up to 98%
- Optional automated pump system removes excess water minimizing clean-up or need for drip pan maintenance
- Optimal integration with Argus controls
- Ultrasonic humidifier tolerates a wide range of water quality*
- Up to a maximum 15 shelves to maximize capacity

Performance Data

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Interior Capacity</th>
<th>Growth Area/tray</th>
<th>Growth Height</th>
<th>Exterior Dimensions (W x D x H)</th>
<th>Electrical Service</th>
<th>Weight</th>
<th>Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C to +45°C (lights on)</td>
<td>27.6ft³</td>
<td>5ft²</td>
<td>2.0&quot;</td>
<td>41&quot; x 32.5&quot; x 77&quot;</td>
<td>120-1Ø-60Hz - 2 Wire</td>
<td>700lb</td>
<td>cTUVus(NRTL)</td>
</tr>
<tr>
<td></td>
<td>781L</td>
<td>0.46m²</td>
<td>4cm</td>
<td>1040mm x 825mm x 1960mm</td>
<td>230-1Ø-50Hz - 2 Wire</td>
<td>320kg</td>
<td>CE Mark</td>
</tr>
</tbody>
</table>

*Consult factory for details.
CONVIRON MODEL GEN1000-GE
SEED GERMINATOR

NOTES
1. REQUIRES A MINIMUM OF 4" (102 mm) FROM REAR OF THE CHAMBER TO BACK WALL.
2. LENGTH AND WIDTH DIMENSIONS ±1/4 (6 mm). HEIGHT DIMENSIONS ±1" (25 mm) DUE TO POTENTIAL ADJUSTMENT OF LEVELING FEET.
3. STANDARD REFRIGERATION SYSTEM IS AIR COOLED, SELF-CONTAINED. WATER COOLED REFRIGERATION IS OPTIONAL.

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