



G1000

SEED GERMINATOR

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Product Overview/Applications

The G1000 is specifically designed for seed germination applications. This chamber comes standard with exceptional temperature and light uniformity and very high humidity control. The interior features a stainless steel design with five trays on the base unit and up to 15 additional trays as an option, to maximize germination throughput.

Lighting

Standard lighting on the G1000 chamber includes two light fixtures mounted vertically on the sides of the cabinet separated from the germination area by dual pane sealed glass barriers.

Airflow

Uniform airflow is introduced to the germination area in a horizontal airflow pattern discharged from a perforated rear wall plenum. Adjustable fan speed control is available via a potentiometer located on the front of the unit. This accommodates a wide range of experiment formats while providing excellent uniformity throughout the entire chamber volume in view of the use of flats or similar research vessels. An adjustable fresh air intake port allows up to 4 ft³/min (0.11 m³/min) of air exchange.

Refrigeration

Cooling is provided by a self-contained air-cooled condensing unit with hot gas bypass for continuous compressor operation. An electronic modulating valve provides tight temperature control while ensuring quiet operation. High and Low pressure switches are provided to protect the integrity of the refrigeration system.*

Experiment Protection

User programmable high and low temperature alarms are available for experiment protection. An independent high temperature alarm activates in the event of a controller malfunction.

Key Product Attributes

- Easy to install and start up
- Externally mounted lights:
 - Removes excess heat from experimental area
 - Ensures lamps are not exposed to high humidity
 - Requires less refrigeration to maintain constant temperature
 - Facilitates ease of maintenance and replacement
- High relative humidity - up to 98%
- Ultrasonic humidification ensures the unit can tolerate a wide range of water quality and reduces the need for reverse osmosis or de-ionized water supply*
- Optional automated pump system removes excess water minimizing clean-up or need for drip pan maintenance
- Connectable to a building management system or Conviron's Central Management™



Performance Data

Temperature Range	Interior Capacity	Growth Area/tray	Growth Height	Exterior Dimensions (W x D x H)	Electrical Service	Weight
+4°C to +40°C (lights on/off)	35ft ³ 1000l	5.38ft ² 0.5m ²	2.0" 4cm	45.5" x 32.5" x 79" 1155mm x 825mm x 2005mm	120-1Ø-60Hz 220/240-1Ø-50Hz	880lb 399kg

*Consult factory for details. Unit not exactly as shown.

CONVIRON MODEL G1000

SEED GERMINATOR



NOTES:

1. REQUIRES MINIMUM OF 1' (305mm) FROM REAR OF CHAMBER TO BACK WALL.
2. LENGTH AND WIDTH DIMENSIONS $\pm 1/4$ (6mm). HEIGHT DIMENSION ± 1 " (25mm).
3. REQUIRES MINIMUM OF 4" (102mm) SPACE BETWEEN CABINETS FOR CANOPY AIR CIRCULATION.



