

GEN 1000 GE

Seed Germinator
Reach-In Chamber



CONVIRON®

GEN1000-GE Seed Germination Reach-in Chamber

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 LED 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%

**Consult factory for details.*

Control and Monitoring

The GEN1000-GE comes equipped with Conviron's most advanced controller – the CMP6060. In addition to powerful programming and reporting capabilities, the CMP6060 includes a full-color, high resolution touchscreen with an intuitive graphic interface. Users can create custom programs for key parameters such as temperature, lighting and humidity and receive audible, visual and email notifications of alarms. Options include connection to your local area network (LAN) and connectivity to a central PC or mobile device with Conviron Central Management™. CMPLink allows seamless integration with an Argus Control system.



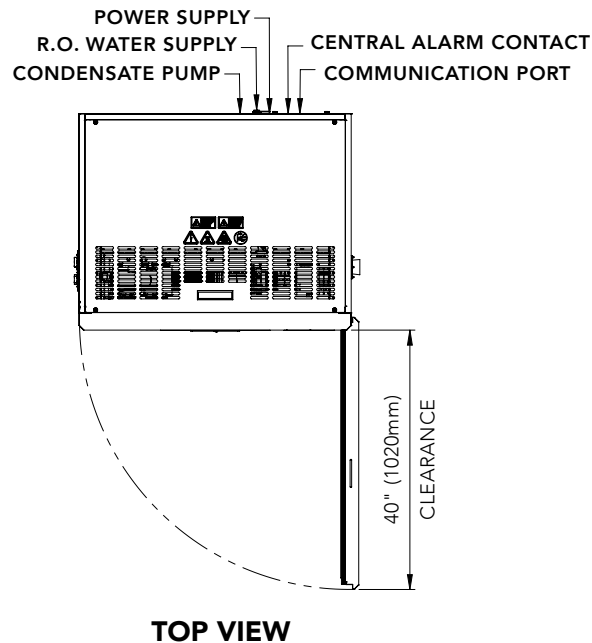
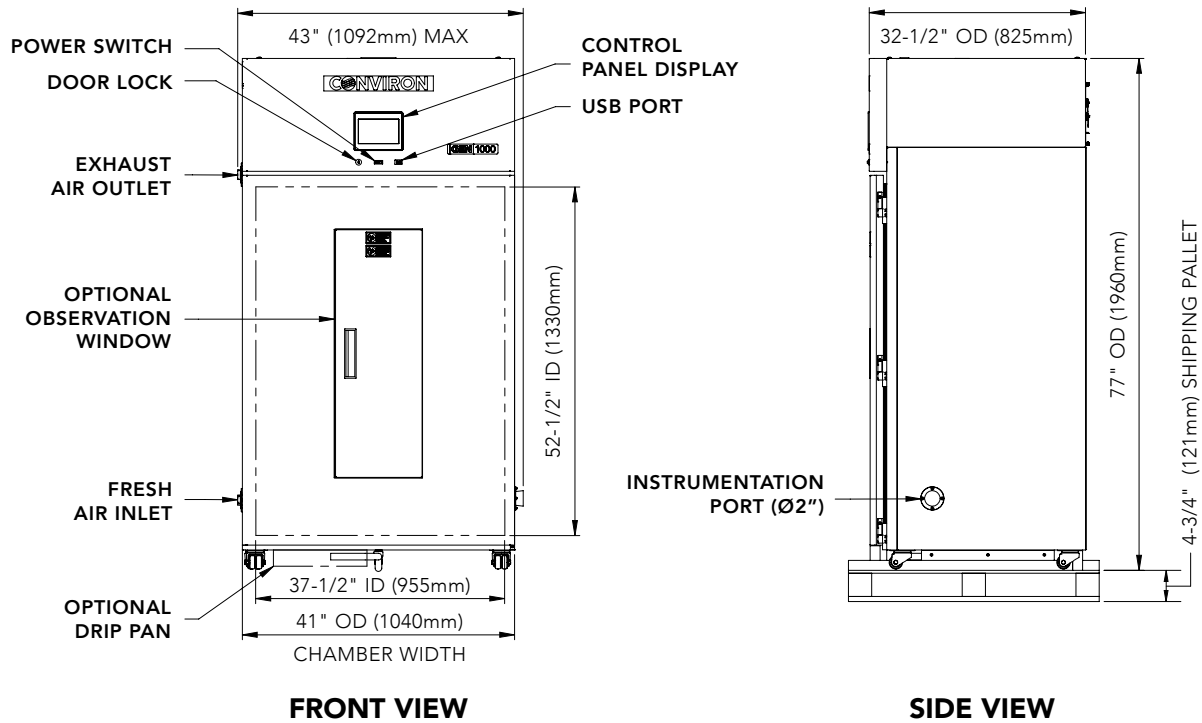
The CMP6060 home screen provides an easy-viewing dashboard for set points, actual conditions and quick access to other control features.

- 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

Temperature Range (°C)	Interior Capacity	Growth Area	Growth Height	Exterior Dimensions (WxDxH)	Electrical Service	Weight	Safety
+10°C to +45°C (lights on)	27.6 ft ³ (781 L)	5 ft ² (0.46 m ²)	2.0" (4 cm)	41"W x 32.5"D x 77"H 1040 x 825 x 1960 (mm)	120-1Ø-60Hz 2 Wire 230-1Ø-50Hz 2 Wire	70lbs (320kg)	cTUVus (NRTL) CE Mark, TÜV

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NOTES

1. REQUIRES A MINIMUM OF 4" (102 mm) FROM REAR OF THE CHAMBER TO BACK WALL. HEPA FILTER AND/OR DUCTED COLLAR OPTION ADDS 2" TO THE OVERALL WIDTH OF THE CHAMBER.
2. LENGTH AND WIDTH DIMENSIONS $\pm 1/4"$ (6mm). HEIGHT DIMENSIONS $\pm 1"$ (25mm) DUE TO POTENTIAL ADJUSTMENT OF LEVELING FEET.
3. STANDARD REFRIGERATION SYSTEM IS AIR-COOLED, SELF-CONTAINED. WATER COOLED REFRIGERATION IS OPTIONAL.

