

PGW40

Walk-in
Growth Room



CONVIRON[®]

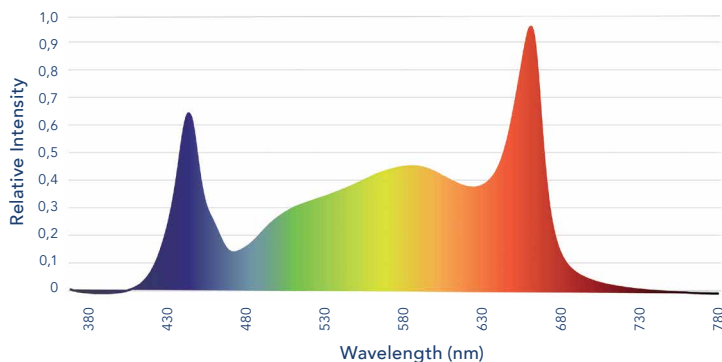
PGW40 Walk-in Growth Room

Product Overview

The PGW40 equips the researcher with a walk-in environment accessible from two large doors on the front of the chamber. This model is ideally suited for research involving taller classified plants. The extended growth height ensures that most plants can be grown to full maturity within a moderate to high light regime. Also available with the PGW40 are low-temp options for running the chamber at temperatures below the standard 4°C. A defrost option is also available which prevents a temperature rise during the defrost cycle.

Lighting

The standard lighting for the PGW40 consists of energy saving LEDs that provide a broad-based light spectrum. The fixed lamp canopy delivers light intensity of 1,000 $\mu\text{mol}/\text{m}^2/\text{s}$ measured at 39" (1 m). Full intensity control is available at the user interface with light output measured by a full-spectrum Apogee Quantum light sensor that automatically adjusts depending on user requirements.



Airflow

Airflow for the PGW40 is distributed uniformly upward using Conviron's innovative *Unifloor*[®] air distribution plenum. The unit includes fresh air intake and exhaust ports which are adjustable to allow up to 55 ft^3/min (1.55 m^3/min .) of air exchange.



University of California at Davis researcher inspecting the plants in a PGW40.

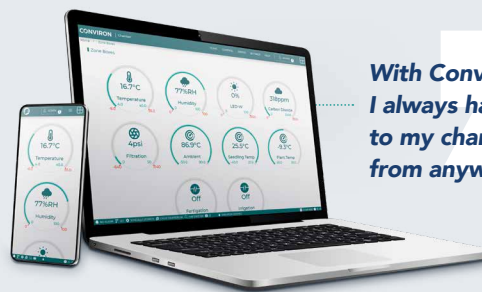
Refrigeration

Cooling for the PGW40 is provided by a self-contained water-cooled condensing unit with hot gas bypass for continuous compressor operation. An electronic modulating valve provides tight temperature control while ensuring quiet operation. Pressure transducers are included for monitoring the status of the refrigeration system. Alternative refrigeration methods are available depending on site-specific and/or user-defined requirements. Consult the factory for heat rejection information and other refrigeration options.

Control and Monitoring

The PGW40 comes equipped with Conviron's most advanced controller - the CMP6060. User programmable "set and forget" alarms track the chamber's operation versus user-defined set points. This allows for exceptionally accurate monitoring without the need for adjustment every time the set point is redefined. Backup "high/low" alarms provide a further level of protection while visual and audible notification is provided when any alarm is activated. Contacts for connection to a building management system are also included.

Connect from anywhere on your desktop, laptop or any LAN connected device with ConvironDirect.



With ConvironDirect I always have access to my chamber — from anywhere.

Performance Data

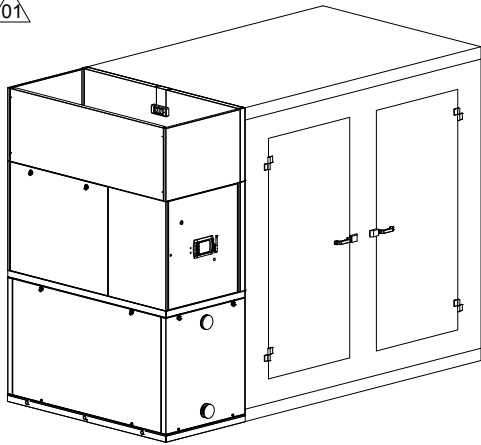
Temperature Range (°C)	Interior Capacity	Growth Area	Growth Height	Exterior Dimensions (WxDxH)	Light Intensities (6" from lamp)	Electrical Service
10°C to 45°C (lights on) 4°C to 40°C (lights off)	203 ft^3 (7443 L)	41.5 ft^2 (3.86 m^2)	76" (1930 mm)	140"W x 70"D x 102"H 3556 x 1780 x 2590 (mm)	1000 $\mu\text{mol}/\text{m}^2/\text{s}$ @ 25°C	120-1Ø-60Hz 2 Wire 230-1Ø-50Hz 2 Wire

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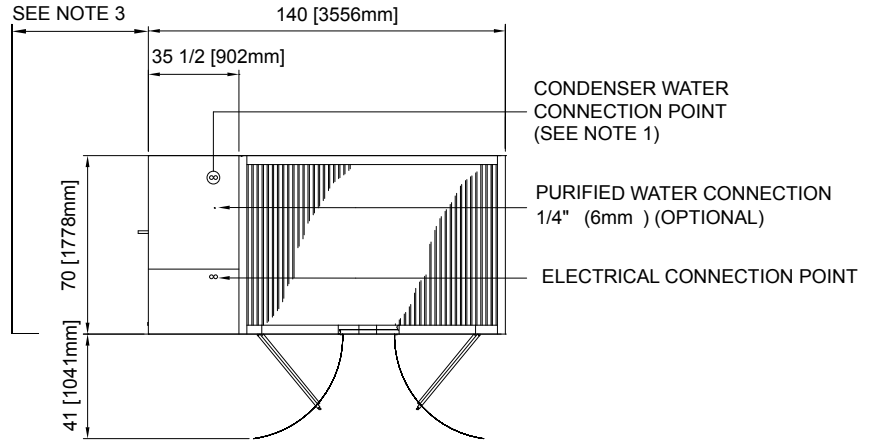
NOTES:

1. STANDARD REFRIGERATION SYSTEM IS WATER COOLED (7/8"Ø (22mmØ) CONNECTION).
2. LENGTH AND WIDTH DIMENSIONS ±1/2 (12mm). HEIGHT DIMENSION ±1" (25mm). DO NOT SCALE DRAWING.
3. PLEASE CONTACT FACTORY FOR RECOMMENDED CLEARANCE REQ'D FOR SERVICE AND INSTALLATION.
4. LEFT HAND CONTROL SHOWN.

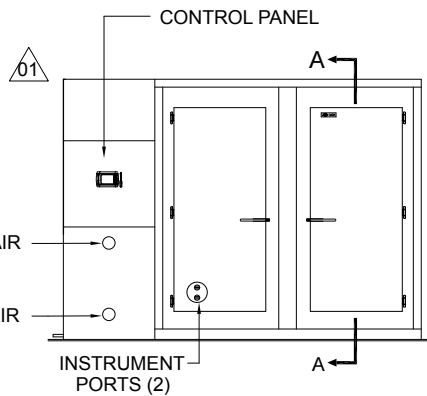
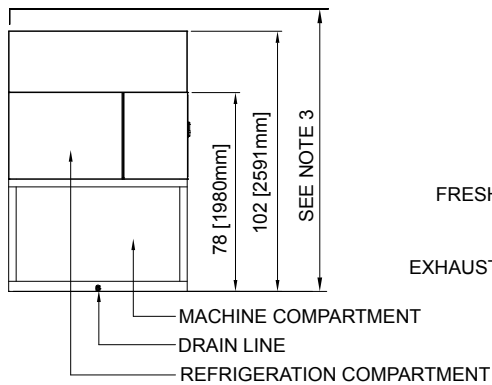
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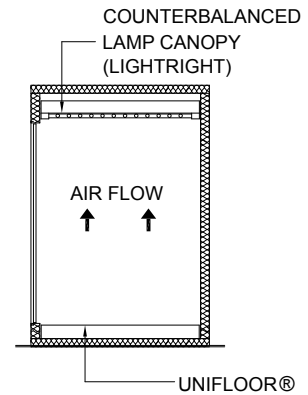
ISOMETRIC VIEW



TOP VIEW



FRONT VIEW

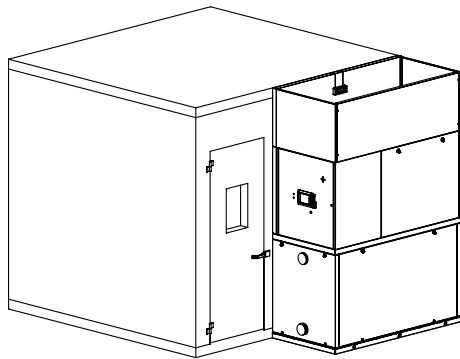


SECTION A-A

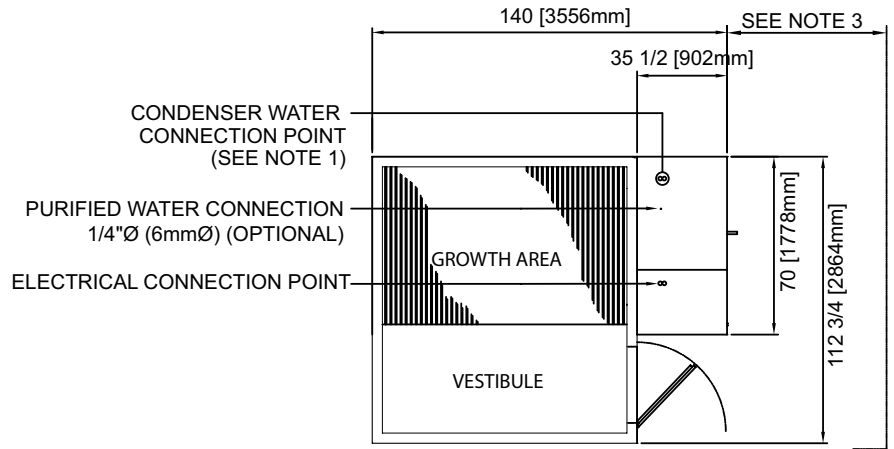
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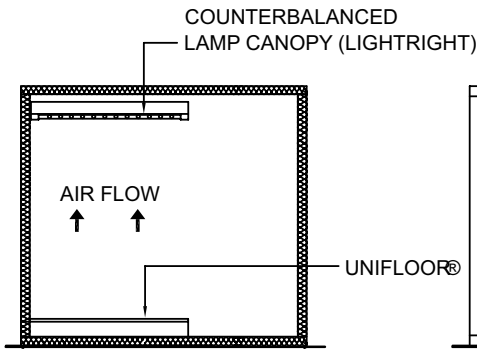
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4. RIGHT HAND CONTROL SHOWN.



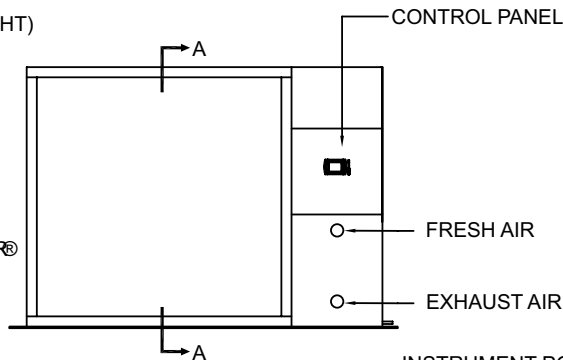
ISOMETRIC VIEW



TOP VIEW



SECTION A-A



FRONT VIEW

