Temperature range*	6 4
%RH (optional)*	% %
Temperature uniformity	± °C
% RH control (optional)	+/- %3 RH
Temperature control at sensor	± 0.2°C
Control resolution	± 0.1°C
Cooling/Heating type	Thermoelectric/Peltier driven-for heating/Cooling
Chamber Volume in Cu. Ft	64 cu.ft
External Dimension-LXWXH	5 5
Internal Dimension-LXWXH	4 6 5
Shelf dimension	23.5" x 24.5"
Cabinet specs	Aluminum interior and stainless steel exterior construction
Lights	LED light 4 4
Electrical requirement	115V/60hz/1ph/8a(max), Unit plugs into standard wall outlet.
Shelf quantity, type	per chamber/ additional shelves available, wire shelf- PVC coated with 4 installation clips. Shelf capacity- 100 lbs distributed load.
Weight specs	5 5

*Specifications are based on 20°C ambient and standard voltage. Specifications are subject to change without notice.

Chamber features:

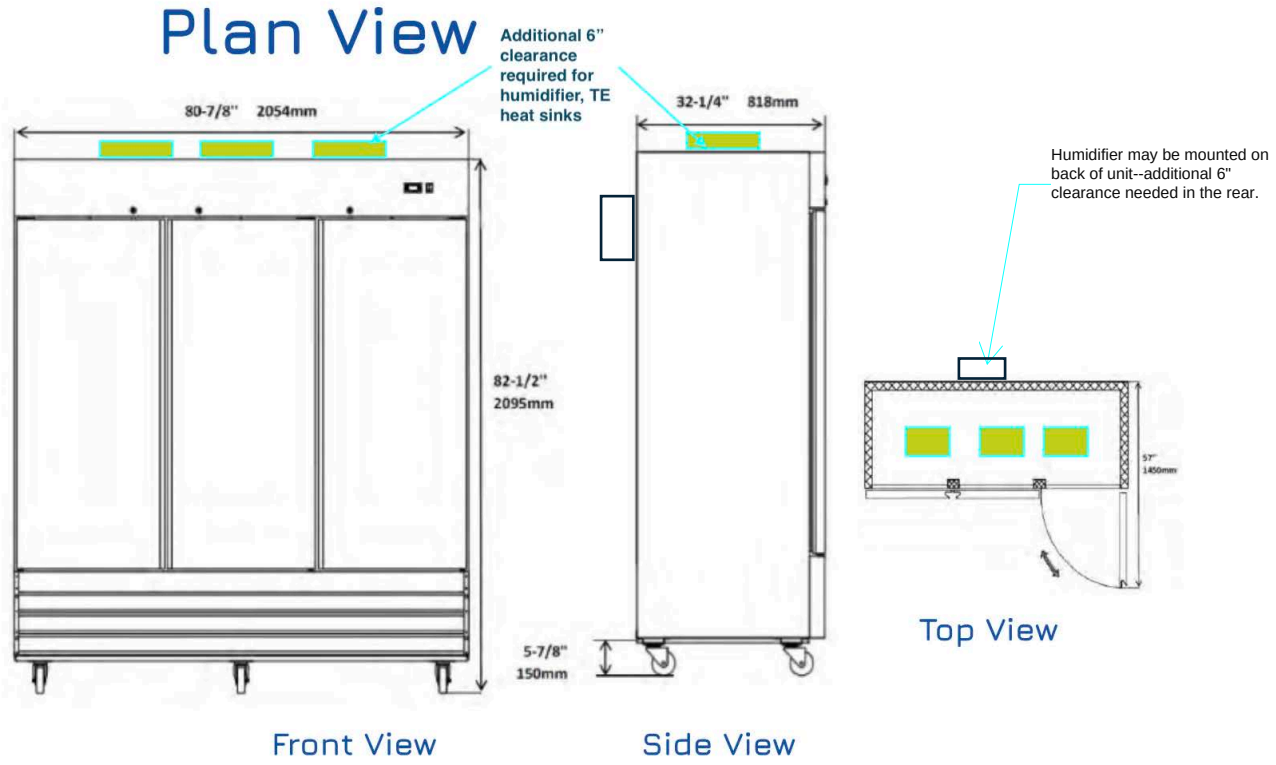
The GCGDM60 Triple glass door plant growth chamber model is designed for botanical and agricultural research applications including seed germination studies, plant pathology, and generic plant research. Chamber design accommodates plant, animal and culture studies, research and growth. Chamber features a digital Watlow, Fuji or equivalent
All of the Canden chambers interior are made out of premium stainless steel. Chamber has 2" thick CFC free insulation providing good thermal gradient. Door locks are standard in doors. Chambers comes with optional 2" access port with insulation plug- optional. Chamber also includes pre-installed casters capable of supporting 150-200lbs per caster. Chamber can hold up to 25 shelves. Chamber uses thermoelectric assembly for heating and cooling. This type of cooling/heating system completely eliminates need for conventional refrigeration system and failures due to mechanical components such as compressors thereby drastically increasing the life expectancy of each chamber. Maintenance cost is also lowered by the thermoelectric/Peltier driven heating/ cooling system. The chamber is quiet in operation. Upper plenum on chambers ensures uniform distribution of conditioned air. Chamber temperature set points are tightly controlled using programmable Fuji or watlow model PID controller.

Light control:
Grasslin digital light timer which enables multiple timer setting per day/7 days a week. Chamber also comes with optional PWM Featured Manual light dimming feature. There is optional outlets inside the chamber to enable user to plug in other devices.
3 level of lighting is standard. LED Grow Light for Indoor Plants, Sun-Like Full Spectrum Panel Plant Light with IR & UV LED Bulbs for Seedling/Veg/Blooming/Succulents. Light intensity varies based on customer research- Typical led intensity is 100 to 800µmol m-2 s-1.

Humidity system:
Humidity control is optional. Humidity range is achieved via additive ultrasonic humidification, a controller with with factory calibrated %RH sensor. Humidifier is installed typically in the rear of the chamber and can be easily serviced or replaced. RO/DI system is recommended but not required as long as the water quality specification is met. Tap water should be fine. The humidifier comes with a 15' ¼" polytube, shut off valve and quick disconnect fittings as well as a fitting to connect to water faucet.

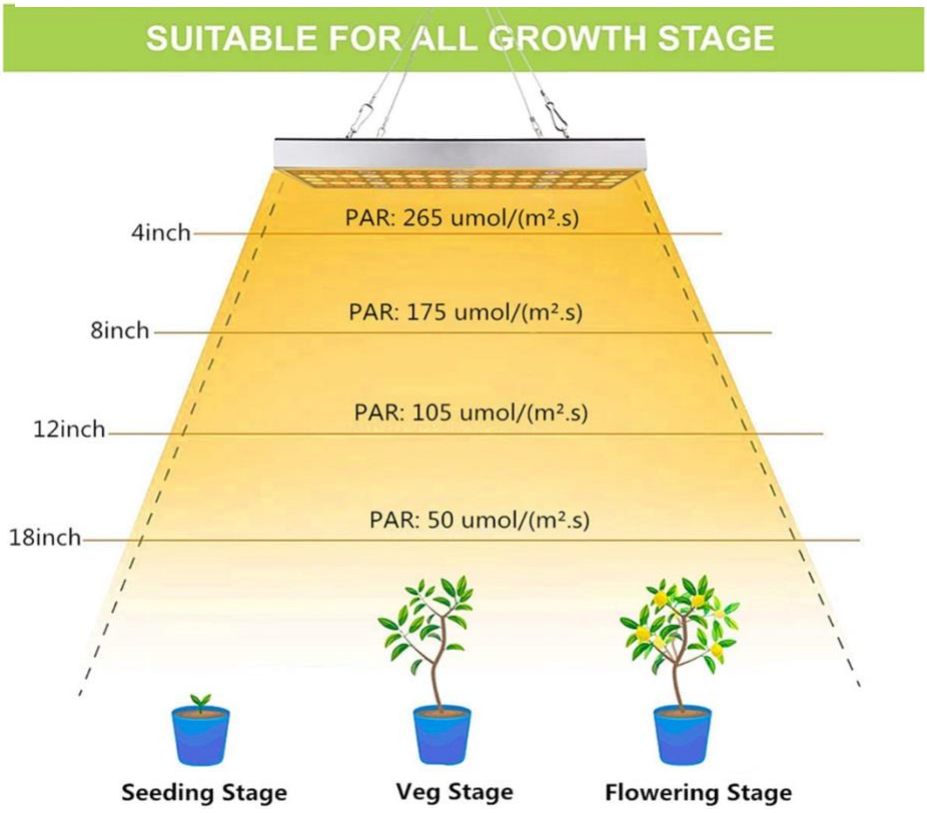
Water quality specification:
Water conductivity greater then 0.1 µS,TDS of < 10 ppm and works in operating pressure range from 10psi to 80 psi"

Co2 System-Optional
Chamber is equipped with Autopilot Co2 controller and Sensor. Co2 sensor can detect day/night cycle automatically turns on or off the Co2. Chamber comes standard with Co2 dual pressure gauge that shows inner/working pressure, solenoid valve (DC), bubble counter. Customer to supply CO2 tank.


Plan View
Additional 6" clearance required for humidifier, TE heat sinks
80-7/8" 2054mm
32-1/4" 818mm
Humidifier may be mounted on back of unit--additional 6" clearance needed in the rear.
82-1/2" 2095mm
5-7/8" 150mm
57" 1450mm
Top View
Front View
Side View

CANDEN

2.8cm/1.1 inch
Wire Length 19cm
40.8cm/16.1 inch
Wire Length 19cm
Each end cap has 2 holes for fixing by screws
Full-spectrum white grow light. Not "purple-looking" grow light.
More healthy for your eyes and your plants.
Optical lenses help to reduce light glaring and produce more focused uniform grow light.
Whole LED light bar is sealed by transparent silicone glue.
No need to worry about waterdrops or moisture any more.
Male and female 5.5mmx 2.1mm DC connector with fastener


SUITABLE FOR ALL GROWTH STAGE
4inch
PAR: 265 umol/(m².s)
8inch
PAR: 175 umol/(m².s)
12inch
PAR: 105 umol/(m².s)
18inch
PAR: 50 umol/(m².s)
Seeding Stage
Veg Stage
Flowering Stage