

Temperature range*	18°C to 50°C- optional extended temp range upto 70°C
%RH *	50% to 90% As limited by dew point and controlled ambient conditions
Temperature/%RH uniformity	± 1°C / 2%
% RH control at sensor	± 0.2%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	21.4 cu.ft
External Dimension-LXWXH	28"×31"×81" (refer to drawing)
Internal Dimension-LXWXH	24" x 27" x 60" (refer to drawing)- height includes plenum which is 5"H.
Shelf dimension	23.5" x 24.5"
Cabinet specs	Stainless interior and exterior construction
Lights	LED light
Electrical requirement	115V/60hz/1ph, Unit plugs into standard wall outlet.
Shelf quantity, type	3 per chamber/ additional shelves available, wire shelf- PVC coated with 4 installation clips. Shelf capacity- 100 lbs distributed load.
Weight specs	Chamber weight- 210lbs Shipping weight- 254 lbs

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

Chamber options:

- Chart recorder
- Additional shelving
- RO/DI water filtration system
- Water carboy

Chamber features:

Canden stability testing chamber is capable of maintaining stable temperature across wide operating temperature range of 18°C to 50°C and relative humidity range of 50% to 90% as limited by operational dew points and ambient condition. This chamber provides outstanding stability testing performance for manufacturers of pharmaceuticals, biologics, food, and personal care products. Canden stability chambers' performance meets ICH Q1A general case guidelines for pharmaceutical stability testing.

Chamber is designed with horizontal airflow for uniform sample exposure. Chamber interior and exterior are made out of stainless steel. Chamber has 2" thick CFC free insulation providing good thermal gradient. Door locks are standard in doors. Chambers comes with 2" access port with insulation plug. Chamber also includes pre-installed casters capable of supporting 150-200lbs per caster.

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. Back wall plenum on chambers ensures uniform distribution of conditioned air. Chamber temperature setpoints are tightly controlled using PID controller. Fuji controller is used in the chamber. NIST traceable 3 wire platinum ohm sensor, Rotronic humidity sensor.

Standard Temperature control features:

- LED Display of PV/SV, PID Control for stable temperature maintenance
- Simplifies Controller Management with Easy-to-Operate Graphic User Interface
- Visually interpret thermal data
- High/Low temp alarms

Standard Humidity control features:

- 2% accuracy over the entire input range
- PID controller displays SV/PV
- High/Low humidity alarms

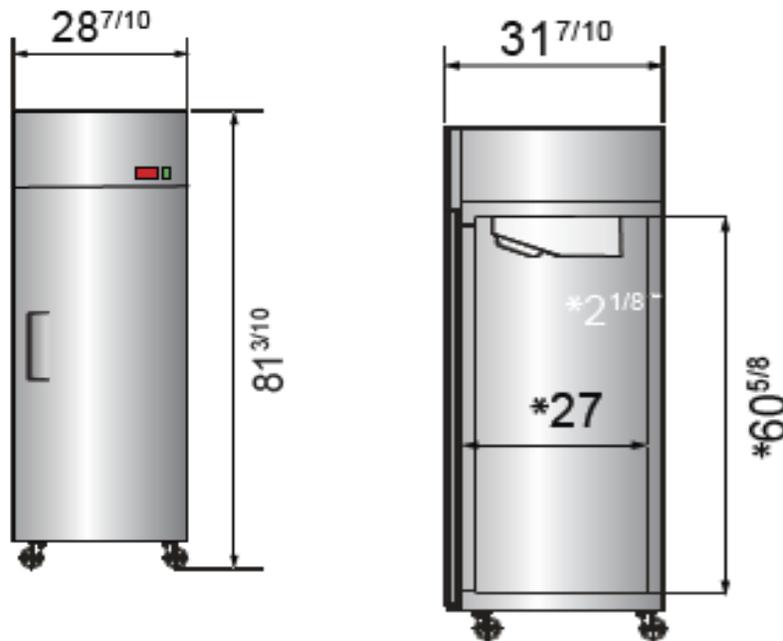
Humidity system:

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' 1/4" 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 μ S, TDS of < 10 ppm and works in operating pressure range from 10psi to 80 psi

Technical drawings



*Interior Dimensions

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AND STAY OPEN
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