Temperature range*	18°C to 50°C- optional extended temp range upto 70°c
%RH (optional)*	50% to 80% extended %RH upto 90%
Temperature uniformity	± 1°C
% RH control (optional)	± 5%
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	56 cu.ft
External Dimension-LXWXH	74.75"W x 31.625"D x 79.25"H(refer to drawing)
Internal Dimension-LXWXH	69.625W″ x 24.75″D x 57″H (refer to drawing)- height includes plenum which is 5″H.
Shelf dimension	LEFT-21 1/2" × 24", RIGHT 22 1/2" × 24" , CENTER-23 1/4" × 24"
Cabinet specs	Stainless steel interior and exterior construction- door frame--matte finish aluminum with glass panel
Lights	LED light
Electrical requirement	115V/60hz/1ph/8a(max), Unit plugs into standard wall outlet.
Shelf quantity, type	12 per chamber/ additional shelves available, wire shelf- PVC coated with 4 installation clips. Shelf capacity- 100 lbs distributed load.
Weight specs	Chamber weight- 578 lbs Shipping weight- 730 lbs

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

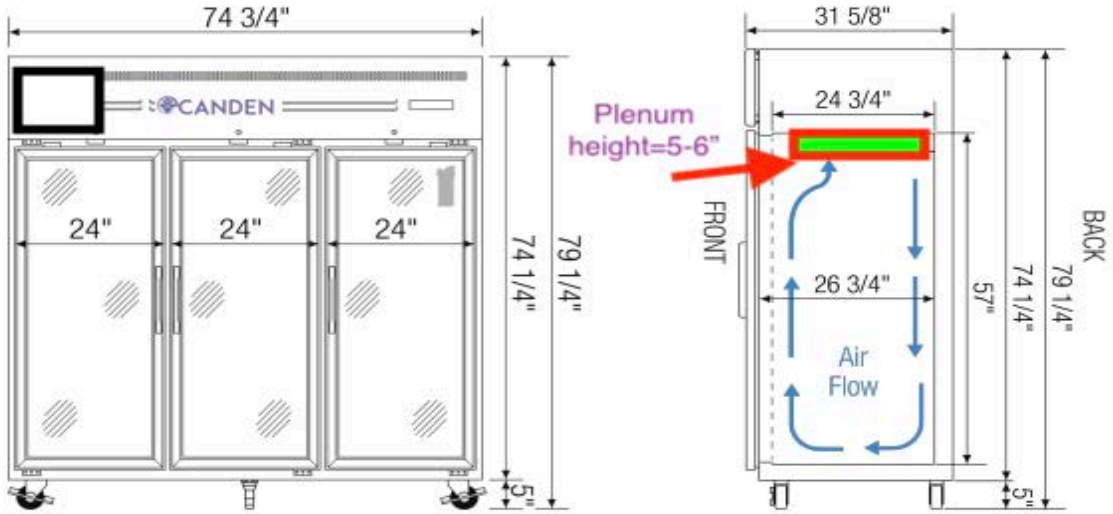
Chamber options:

- Chart recorder
- Additional shelving
- Relative humidity
- Extended temperature ranges
- RO/DI water filtration system
- Water carboy

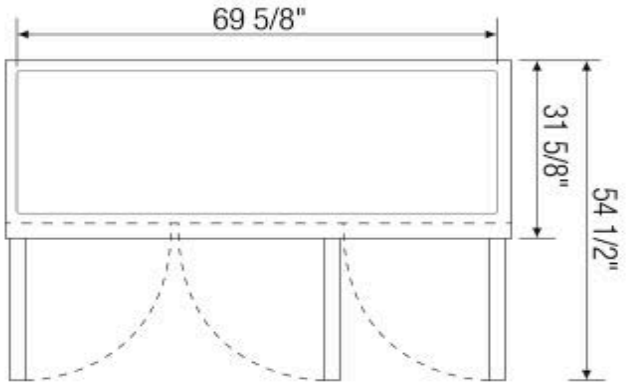
Chamber features:
Canden stability chamber with glass door front is capable of maintaining stable temperature across wide operating temperature range of 18°c to 50°c and relative humidity range of 50% to 80% as limited by operational dew points and ambient condition. This chamber provides outstanding 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 upper plenum with front to back airflow system for uniform sample exposure. Door locks are standard in doors. Chambers comes with 2" access port with insulation plug. 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. 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 or equivalent. Chamber is equipped with standard **wireless data logger** or **a data logger that can be connected PC** or chart recorder.

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' long 1/2" 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"

PLAN VIEW



FRONT SIDE



TOP

Note: Plenum is made out of aluminum with plastic fan covers and brackets.