Temperature range*	10°C to 50°C- optional extended temp range upto 70°c
%RH *	40% to 80% extended upto 90%
Temperature / %RH uniformity	± 2°C / 5%RH
% RH control at sensor	± 5%RH
Temperature control at sensor	± 1°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)- ADDITIONAL 2" CLEANCE NEEDED FOR TUBES
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-optional
Electrical requirement	115V/60hz/1ph/4a, 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:

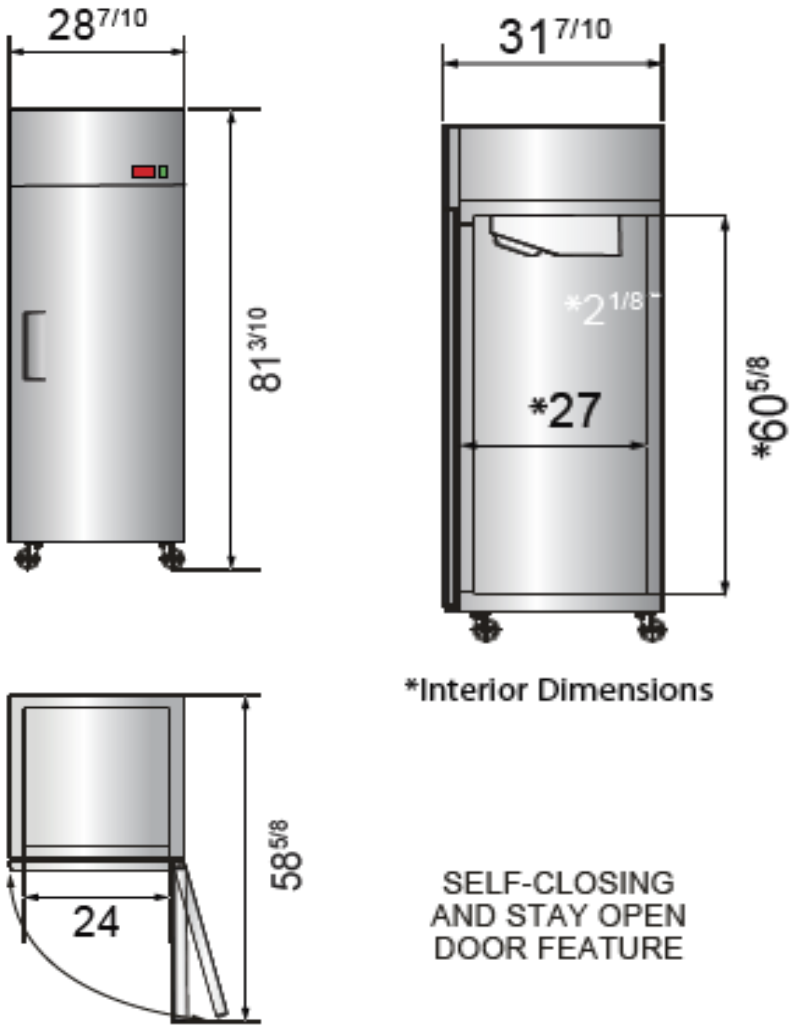
- Chart recorder
- Additional shelving
- RO/DI water filtration system
- Water carboy

Chamber features:
Canden stability chamber is capable of maintaining stable temperature across wide operating temperature range of 10°c to 50°c and relative humidity range of 40% 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 plenum and a front to back airflow system for uniform sample exposure. Door locks are standard in doors. Chambers comes with optional 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. 3 wire platinum ohm sensor, Mitchell instrument sensor or equivalent. Chamber is equipped with optional watlow touchscreen controller capable of showing live trends, data 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 can be used if RO/DI water is not available. The humidifier comes with a 15’ 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 of less than 10psi"

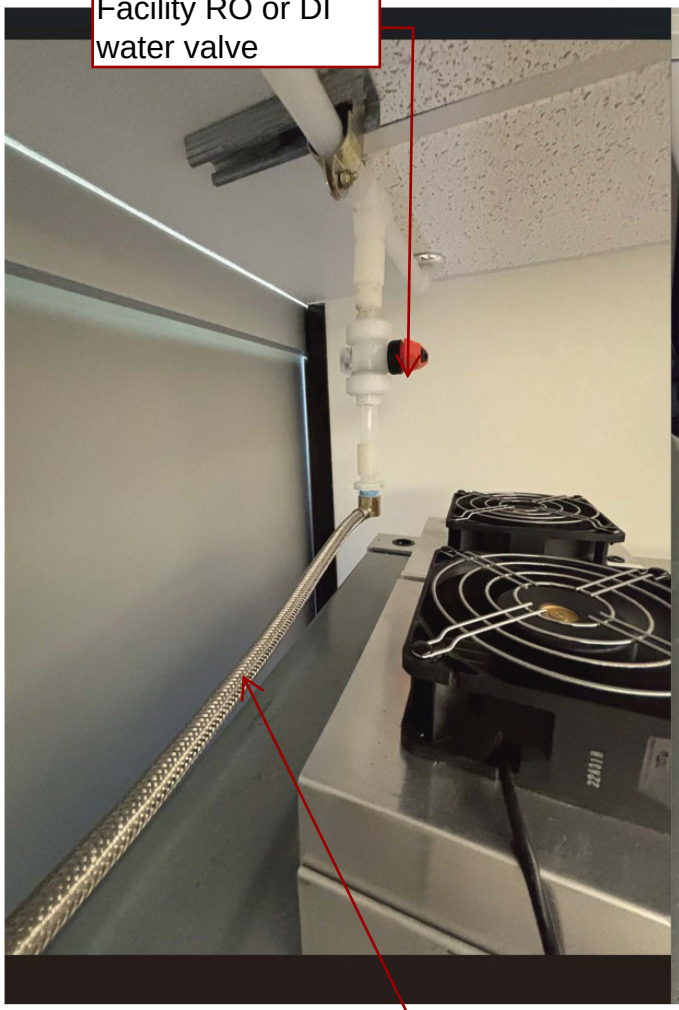
Technical drawings

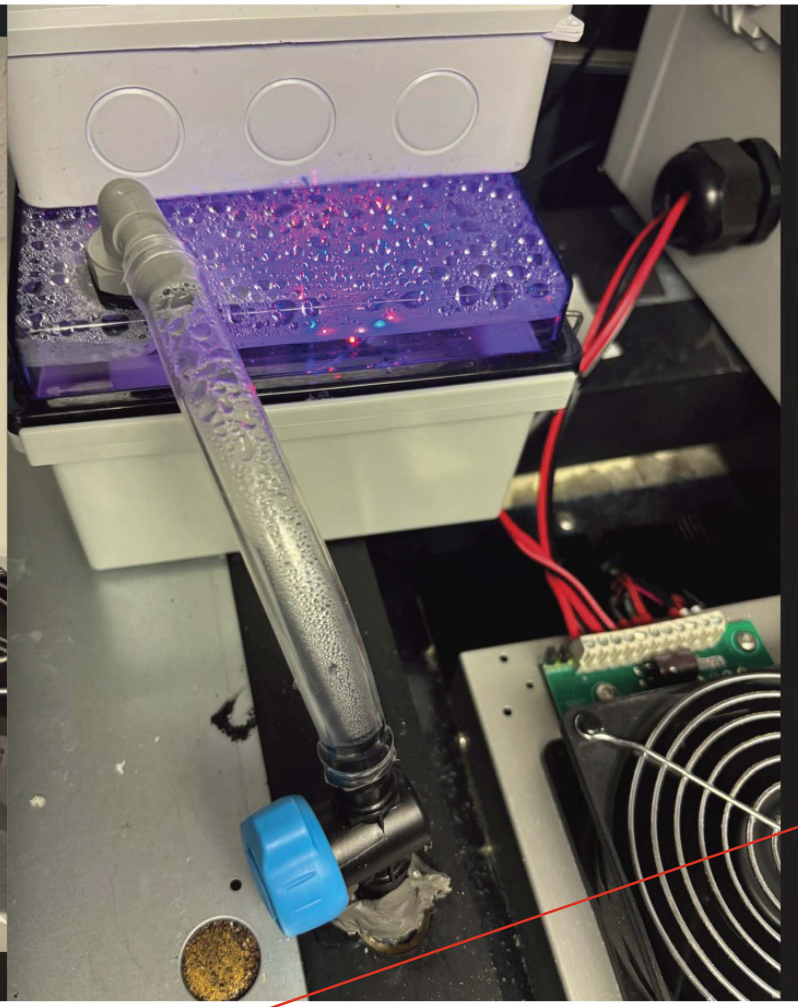


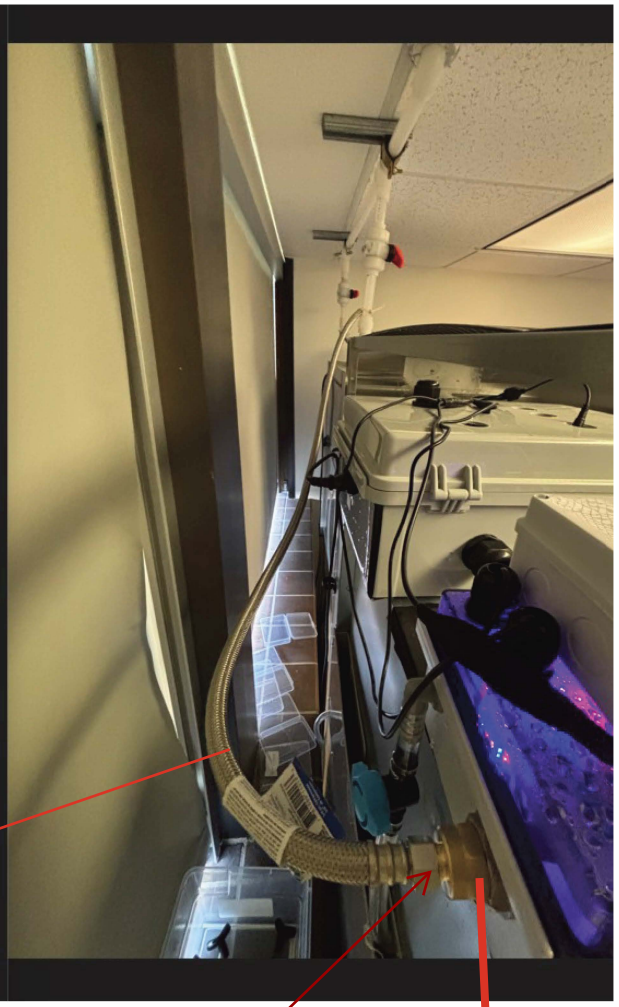
*Interior Dimensions

SELF-CLOSING
AND STAY OPEN
DOOR FEATURE

Facility RO or DI water valve

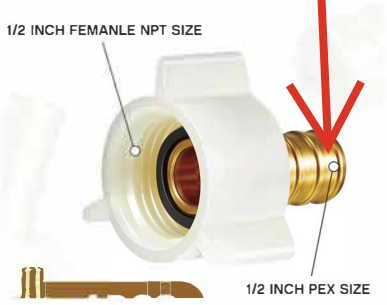






Facility RO or DI water line to humidifier--water pressure should be less than 10psi

Note: Connection line supplied by customer.

Connection from facility RO/DI water valve to humidifier done by customer.

Humidifier comes with 1/2" threaded adapter or 5/8" ID quick connect.