

- MCBH - Microclimate Benchtop with Humidity
- 1.2 - 1.2 Cubic Ft (34 L)
- .33-.33 - .33HP R-404A, .33HP R-508B Cascade Refrigeration System
- H/AC - Hermetic Compressor, Integral Air Cooled Condenser

### Chamber Specifications

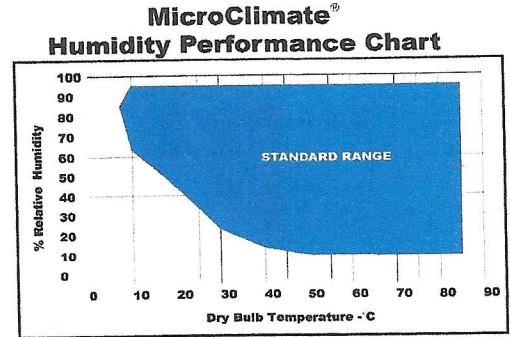
**Temperature Range:** -70°C to +190°C (-94°F to +375°F)

**Humidity Range:** 10% to 95% RH relative humidity as limited by a +85°C (+185°F) maximum dry bulb and a +10°C (+50°F) minimum dewpoint. Approximate humidity consumption: .25 gallons of water per hour.

**Control & Stability:** ±0.5°C; ±4% RH at steady state conditions after stabilization

**Weight & Dimensions:** (Addition of certain options may increase dimensions)

- Interior:** 16"W x 11"D x 12"H (40.64cm x 28cm x 30cm)
- Exterior:** 36.75"W x 30.5"D x 28"H (93cm x 77cm x 71cm)
- Work Space:** 1.2 Cubic Ft. (34 L)
- Ship Weight:** Approximately 325 lbs. (148 kg)
- Shelf Area:** Maximum shelf load capacity is 50 lbs (23 kg). Maximum number of shelves is 5.
- Floor Rating:** Maximum floor load is 25 lbs. (11 kg)



### Performance

#### Temperature Performance (60 Hz)

##### Temperature pull-down from:

- +24°C (+75°F) to -40°C (-40°F) in 20 minutes
- +24°C (+75°F) to -54°C (-65°F) in 30 minutes
- +24°C (+75°F) to -68°C (-90°F) in 45 minutes

##### Temperature heat-up from:

- +24°C (+75°F) to +93°C (+200°F) in 10 minutes
- +24°C (+75°F) to +190°C (+375°F) in 35 minutes
- 34°C (-30°F) to +24°C (+75°F) in 10 minutes
- 68°C (-90°F) to +24°C (+75°F) in 15 minutes

#### Live Load Capacity:

- 175 watts at -40°C (-40°F)
- 100 watts at -54°C (-65°F)

These chambers are designed to operate in a commercial environment with a temperature of +24°C ± 6°C ( +75°F ±10°F), maximum dew point of 12.8°C (55°F) and a maximum altitude of 7,000ft (2133.6 M). This product is intended for indoor use only. If you are planning to place this in a location which does not meet these criteria, please consult factory so the proper product can be quoted. Note: Condensation on exterior surfaces is normal when operating at cold temperatures for an extended period of time. Certain options will affect performance.

### Utility Information

#### Electrical Information:

115 volts (±5%), Single phase, 60 hertz, with dedicated 20 amp service required. Power cord included for 60 hz. models.

#### Humidity Information:

De-ionized (DI) water is recommended for use with our humidity systems. Water should be provided within 0.05 to 2 MegaOhms resistivity. Distilled water or reverse osmosis (RO) water outside of these limits may cause corrosion. Tap water may be used with our optional \*Deminerlizer Filtration System. A \*Recirculating Humidity Water Supply System is also available.

Inlet water pressure should be 25 psi, use \*Water Pressure Regulator. (\*See options). When operating at high temperature and humidity etching of the glass may occur and is a normal occurrence.