



ASSOCIATED ENVIRONMENTAL SYSTEMS

BHD Series

BENCHTOP TEMPERATURE & HUMIDITY CHAMBER



Description:

BHD Series benchtop chambers create a wide range of temperature and humidity levels from -65°C to 180°C and 10% to 98% RH. The chambers range from 2 ft³ to 8 ft³. BHD chambers feature precise temperature control in a space saving benchtop design.

Standard Features:

- Interior: All stainless steel type 304
- Exterior: Heavy gauge cold rolled steel with powder coat paint
- 3" access port and plug
- 8" multipane viewing window
- Internal light with external switch
- Adjustable digital high temperature safety
- Watlow F4 programmable controller with RS232 interface



BHD Series

Specifications

Options:

- Custom Port Sizes
- Shelf Modification
- LN₂/CO₂ Cooling
- Air Dryer for Lower Humidity Range
- IEEE-488 Interface
- Ethernet Interface
- Dry Nitrogen Purge
- Programmable Chart Recorder
- Adjustable High/Low Temperature Safety
- Water cooled condenser
- Water recycling system
- Water Demineralizer Cartridge
- Heater for Window
- Floor Stand with Casters
- Touch Screen Control

BHD – 400 Series

Temperature Range: -17°C to +180°C (0°F to +356°F)

Compressors: Copeland, Single Stage

Controller: Watlow F4 Programmable Controller with RS232 Communication

Model	Working Volume (cu. ft.)	Dimensions: (H" x W" x D")	Temp. Rise Time – Ambient to Upper Limit	Temp. Pull Down Time – Ambient to Lower Limit	Power Requirements
BHD-402	2	Internal: 15 x 15 x 16 External: 25 x 47.75 x 30.5	40 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-403	3	Internal: 16 x 20 x 18 External: 28 x 49 x 28	40 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-405	5	Internal: 20 x 20 x 22 External: 32 x 49 x 32	40 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-408	8	Internal: 24 x 24 x 24 External: 34 x 53 x 34	40 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.

BHD – 500 Series

Temperature Range: -37°C to +180°C (-35°F to +356°F)

Compressors: Copeland, Single Stage

Controller: Watlow F4 Programmable Controller with RS232 Communication

Model	Working Volume (cu. ft.)	Dimensions: (H" x W" x D")	Temp. Rise Time – Ambient to Upper Limit	Temp. Pull Down Time – Ambient to Lower Limit	Power Requirements
BHD-502	2	Internal: 15 x 15 x 16 External: 25 x 47.75 x 30.5	40 min.	35 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-503	3	Internal: 16 x 20 x 18 External: 28 x 49 x 28	40 min.	35 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-505	5	Internal: 20 x 20 x 22 External: 32 x 49 x 32	40 min.	35 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-508	8	Internal: 24 x 24 x 24 External: 34 x 53 x 34	40 min.	35 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.

BHD – 200 Series

Temperature Range: -65°C to +180°C (-85°F to +356°F)

Compressors: Copeland, Cascade

Controller: Watlow F4 Programmable Controller with RS232 Communication

Model	Working Volume (cu. ft.)	Dimensions: (H" x W" x D")	Temp. Rise Time – Ambient to Upper Limit	Temp. Pull Down Time – Ambient to Lower Limit	Power Requirements
BHD-202	2	Internal: 15 x 15 x 16 External: 25 x 47.75 x 30.5	40 min.	70 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-203	3	Internal: 16 x 20 x 18 External: 28 x 49 x 28	40 min.	70 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-205	5	Internal: 20 x 20 x 22 External: 32 x 43 x 32	40 min.	70 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
BHD-208	8	Internal: 24 x 24 x 24 External: 34 x 53 x 34	40 min.	70 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.