



# ASSOCIATED ENVIRONMENTAL SYSTEMS

## BD-100 Series

LIQUID COOLED OVENS



### *Description:*

Liquid cooled test chambers are used to accommodate a wide variety of test requirements while maintaining a low cost of deployment. The BD series features the fastest standard change rates in a cost effective design with pull-down from ambient to  $-73^{\circ}\text{C}$  in 10-20 minutes depending on the oven's size.

### *Standard Features:*

- Interior: All stainless steel type 304
- Exterior: Heavy gauge cold rolled steel with powder coat paint
- 2" access port and plug
- $\text{CO}_2$  scrubber with replaceable cartridge
- Adjustable digital high temperature safety
- Forced air circulation to maintain precise temperatures
- Digital set/digital read controller



# BD-100 Series

## Specifications

### Options:

- Shelf Modification
- Custom Port Sizes
- Floor Stand with Casters
- Dry Nitrogen Purge
- Programmable Chart Recorders
- IEEE-488 computer Interface
- Watlow F4 Programmable controller with CS232 interface
- Touch Screen Control
- CO<sub>2</sub> Tank to Chamber Hose

### BD – 100 Series

Temperature Range: -73°C to +220°C (-100°F to +425°F)

Compressors: Liquid Cooled

Controller: Watlow PM

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
BD-100	1/2	Internal: 9 x 11 x 12 External: 22 x 15 x 16	40 min.	10 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
BD-101	1	Internal: 13 x 12 x 11 External: 29 x 18 x 17	40 min.	10 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
BD-102	2	Internal: 16 x 16 x 16 External: 32 x 22 x 22	40 min.	12 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
BD-104	4	Internal: 22 x 18 x 18 External: 38 x 24 x 24	40 min.	12 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
BD-108	8	Internal: 24 x 24 x 24 External: 42 x 30 x 20	40 min	12 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
BD-127	27	Internal: 36 x 36 x 36 External: 57 x 42 x 42	40 min	12 min.	1 Phase 230 Volt 60 Hz. 1 Phase 220 Volt 50 Hz.
BD-164	64	Internal: 48 x 48 x 48	40 min	20 min.	1 Phase 230 Volt 60 Hz. 1 Phase 220 Volt 50 Hz.