



ASSOCIATED ENVIRONMENTAL SYSTEMS

SD Series

BENCHTOP TEMPERATURE CHAMBER



Description:

SD series benchtop chambers create a wide range of temperatures from -65°C to 180°C . The chambers range from 2 ft^3 to 8 ft^3 . SD 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



SD Series

Specifications

Options:

- Custom Port Sizes
- Shelf Modification
- LN₂/CO₂ Cooling
- IEEE-488 Interface
- Ethernet Interface
- Dry Nitrogen Purge
- Programmable Chart Recorder
- Adjustable High/Low Temperature Safety
- Heater for Window
- Floor Stand with Casters
- Touch Screen Control

SD – 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
SD-402	2	Internal: 15 x 15 x 16 External: 25 x 47.75 x 30.5	30 min.	25 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
SD-403	3	Internal: 16 x 20 x 18 External: 28 x 49 x 28	30 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
SD-405	5	Internal: 20 x 20 x 22 External: 32 x 49 x 32	30 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
SD-408	8	Internal: 24 x 24 x 24 External: 34 x 53 x 34	30 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.

SD – 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
SD-502	2	Internal: 15 x 15 x 16 External: 25 x 47.75 x 30.5	30 min.	25 min.	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
SD-503	3	Internal: 16 x 20 x 18 External: 28 x 49 x 28	30 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
SD-505	5	Internal: 20 x 20 x 22 External: 32 x 49 x 32	30 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
SD-508	8	Internal: 24 x 24 x 24 External: 34 x 53 x 34	30 min.	25 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.

SD – 300 Series

Temperature Range: -65°C to +180°C (-35°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
SD-302	2	Internal: 15 x 15 x 16 External: 25 x 47.75 x 30.5	Approx. 30 min.	30 min. Room ambient to -40°C in approx. 15 min	1 Phase 120 Volt 60 Hz. 1 Phase 100 Volt 50 Hz.
SD-303	3	Internal: 16 x 20 x 18 External: 28 x 49 x 28	Approx. 30 min.	30 min. Room ambient to -40°C in approx. 15 min	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
SD-305	5	Internal: 20 x 20 x 22 External: 32 x 43 x 32	Approx. 30 min.	Approx. 30 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.
SD-308	8	Internal: 24 x 24 x 24 External: 34 x 53 x 34	Approx. 30 min.	Approx. 40 min.	1 Phase 220 Volt 60 Hz. 1 Phase 200 Volt 50 Hz.