

# Mechanical Refrigeration Chambers

## Bench Top Units

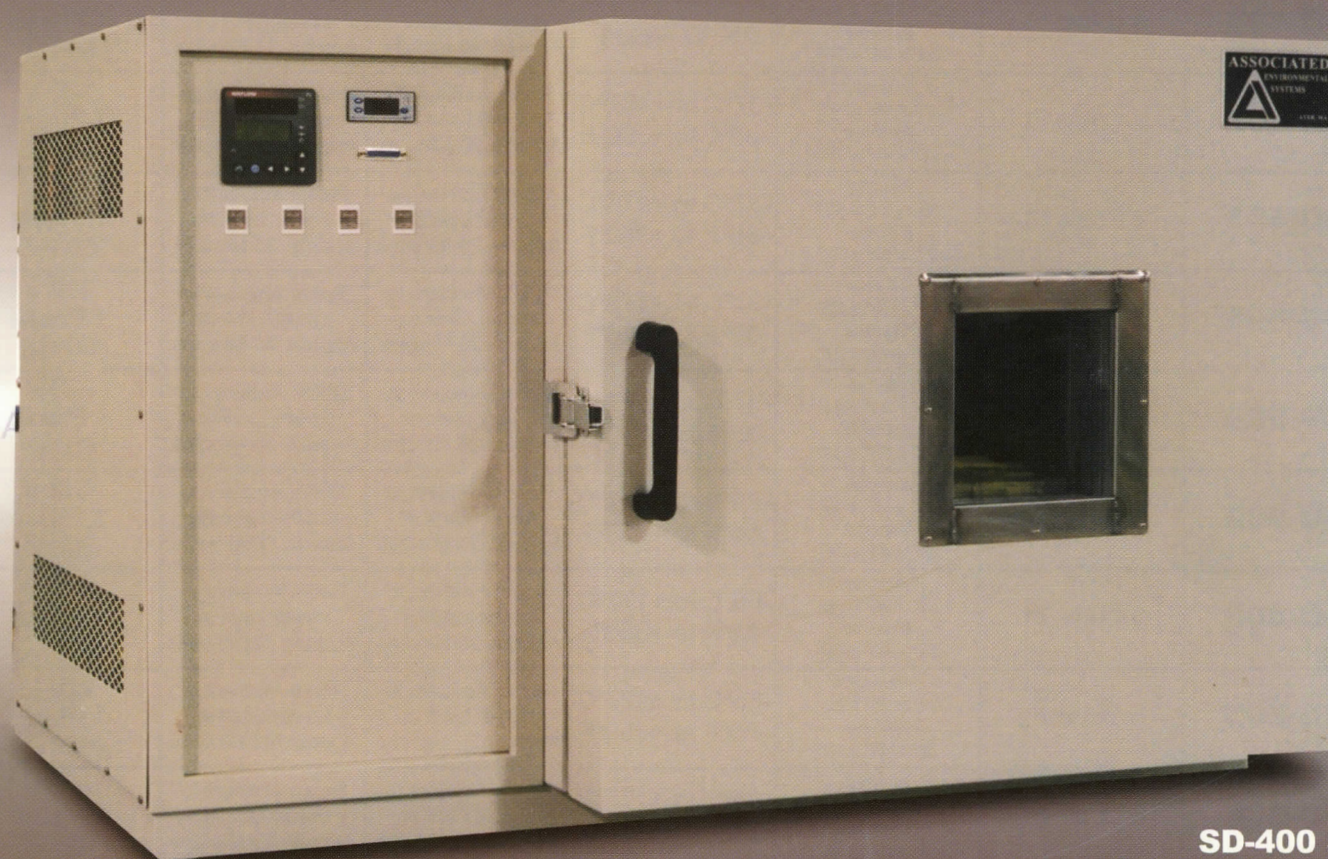
**LR**

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**SD-400 Series**  
**SD-500 Series**  
**SD-300 Series**



**ASSOCIATED**  
**ENVIRONMENTAL SYSTEMS**

Bulletin SD-1-02



# Unit Specifications

| Model         | Working Volume | Dimensions (H x W x D)                                     | Temperature Range                  | Temperature Rise Time                                | Temperature Pull Down Time                           | Power Required            |
|---------------|----------------|--|------------------------------------|--|--|---------------------------|
| <b>SD-402</b> | 2 Cubic Ft.    | Internal<br>15" x 15" x 16"<br>External<br>28" x 43" x 28" | -17°C to +177°C<br>0°F to +350°F   | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 18 Minutes | 120 V<br>1 Phase<br>60 HZ |
| <b>SD-403</b> | 3 Cubic Ft.    | Internal<br>16" x 20" x 18"<br>External<br>28" x 49" x 28" | -17°C to +177°C<br>0°F to +350°F   | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 18 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-405</b> | 5 Cubic Ft.    | Internal<br>20" x 20" x 22"<br>External<br>32" x 49" x 32" | -17°C to +177°C<br>0°F to +350°F   | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 18 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-408</b> | 8 Cubic Ft.    | Internal<br>24" x 24" x 24"<br>External<br>34" x 53" x 34" | -17°C to +177°C<br>0°F to +350°F   | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 18 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-502</b> | 2 Cubic Ft.    | Internal<br>15" x 15" x 16"<br>External<br>28" x 43" x 28" | -37°C to +177°C<br>-35°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 35 Minutes | 120 V<br>1 Phase<br>60 HZ |
| <b>SD-503</b> | 3 Cubic Ft.    | Internal<br>16" x 20" x 18"<br>External<br>28" x 49" x 28" | -37°C to +177°C<br>-35°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 35 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-505</b> | 5 Cubic Ft.    | Internal<br>20" x 20" x 22"<br>External<br>32" x 49" x 32" | -37°C to +177°C<br>-35°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 35 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-508</b> | 8 Cubic Ft.    | Internal<br>24" x 24" x 24"<br>External<br>34" x 53" x 34" | -37°C to +177°C<br>-35°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 35 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-302</b> | 2 Cubic Ft.    | Internal<br>15" x 15" x 16"<br>External<br>28" x 43" x 28" | -65°C to +177°C<br>-85°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 70 Minutes | 120 V<br>1 Phase<br>60 HZ |
| <b>SD-303</b> | 3 Cubic Ft.    | Internal<br>16" x 20" x 18"<br>External<br>28" x 49" x 28" | -65°C to +177°C<br>-85°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 70 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-305</b> | 5 Cubic Ft.    | Internal<br>20" x 20" x 22"<br>External<br>32" x 49" x 32" | -65°C to +177°C<br>-85°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 70 Minutes | 220 V<br>1 Phase<br>60 HZ |
| <b>SD-308</b> | 8 Cubic Ft.    | Internal<br>24" x 24" x 24"<br>External<br>34" x 53" x 34" | -65°C to +177°C<br>-85°F to +350°F | Room Ambient to Upper Limit in<br>Approx. 20 Minutes | Room Ambient to Lower Limit in<br>Approx. 70 Minutes | 220 V<br>1 Phase<br>60 HZ |

## Standard Features:

- Programmable Controller with RS232C
- Stainless Steel Interior
- 2" Diameter Access Port & Plug
- 8" X 8" Multipane Viewing Window
- Internal Light with External Switch
- Adjustable High Temperature Safety (Digital Set Digital Indicating)

## Options:

- IEEE-488 Computer Interface
- Chart Recorder
- Additional Ports
- Floor Stand with Casters
- CO<sub>2</sub> or LN<sub>2</sub> for Faster Pull Down
- Optional Voltage

Ultimate performance will be slightly affected by additional windows, ports and ambient air temperature.

In line with our corporate policy of continuing product improvement and quality control, Associated reserves the right to change product specifications without notice.