



ASSOCIATED ENVIRONMENTAL SYSTEMS

Helping our customers make their products the best that they can be.
Stronger • Faster • Safer
Longer-Lasting

HD-SERIES

We get you there faster.



DESCRIPTION

The HD Series is a floor-model chamber with two temperature range options. The Series features 11 working-volume configurations ranging from 1 cubic foot to 64 cubic feet. The exclusive AES-designed inner-baffle design provides increased temperature stability and even air circulation. Humidity levels run between 20% and 98% relative humidity.

Add on an optional air dryer to achieve humidity levels less than 10% relative humidity.

STANDARD FEATURES

- Interior: All stainless steel type 304
- Exterior: Heavy gauge cold rolled steel with powder coat finish
- 8" x 8" or 12" x 12" multi-pane viewing window in door
- Internal light with external switch
- 3" access port and plug opposite door hinge
- Casters for mobility
- Watlow F4T programmable controller with AES|XCHANGE
- Adjustable digital high temperature safety



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HD-SERIES

10 ft³ & Less



SPECIFICATIONS

OPTIONS

- Custom Port Sizes
- Adjustable Shelving
- LN₂/CO₂ Boost Cooling
- Air Dryer for Lower Humidity Range
- Adjustable High/Low Temperature Safety
- Noise Reduction Package
- Retro Legacy F4 Controller
- Programmable Chart Recorder



INCLUDED

OPERATION & DATA MANAGEMENT DASHBOARD

For the latest in remote operation and data management, AES|XCHANGE enables you to operate and program the controller at the chamber, your desktop, and remotely via laptop or tablet. A visual graph allows you to view live & historical test data. A drag-&-drop profile builder allows you to create, edit, save, and move between profiles. Onboard multi-year data logging collect and manage live & Historical data while chamber is operating. JSON API makes for easy communication. And access control allows for secure multi-user interaction.

For details and product specifications go to <https://www.associatedenvironmentalsystems.com/xchange>

HD-200's Temperature -65°C to 180°C (-85°F to 356°F)

Model	Overall Dimensions (in)	Inside Dimensions (in)	Working Volume
HD-202	31.5W x 39.5D x 63.5H	17W x 13D x 16H	2.046 cu. ft.
HD-205	31.5W x 39.3D x 66.7H	22W x 20D x 20H	5.092 cu. ft.
HD-208	33.5W x 43.5D x 67.5H	24W x 24D x 24H	8 cu. ft.
HD-210	37.5W x 47D x 71.5H	24W x 27D x 28H	10.5 cu. ft.

HD-500's Temperature -37°C to 180°C (-34.6°F to 356°F)

Model	Overall Dimensions (in)	Inside Dimensions (in)	Working Volume
HD-502	31.5W x 39.5D x 63.5H	17W x 13D x 16H	2.046 cu. ft.
HD-505	31.5W x 39.3D x 66.7H	22W x 20D x 20H	5.092 cu. ft.
HD-508	33.5W x 43.5D x 67.5H	24W x 24D x 24H	8 cu. ft.
HD-510	37.5W x 47D x 71.5H	24W x 27D x 28H	10.5 cu. ft.

HD-400's Temperature -17°C to 180°C (1.4°F to 356°F)

Model	Overall Dimensions (in)	Inside Dimensions (in)	Working Volume
HD-405	31.5W x 39.3D x 66.7H	22W x 20D x 20H	5.092 cu. ft.
HD-408	33.5W x 43.5D x 67.5H	24W x 24D x 24H	8 cu. ft.
HD-410	37.5W x 47D x 71.5H	24W x 27D x 28H	10.5 cu. ft.

Power requirements vary by model



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HD-SERIES

13 ft³ & More



SPECIFICATIONS



OPTIONS

- Custom Port Sizes
- Adjustable Shelving
- LN₂/CO₂ Boost Cooling
- Air Dryer for Lower Humidity Range
- Adjustable High/Low Temperature Safety
- Noise Reduction Package
- Retro Legacy F4 Controller
- Programmable Chart Recorder



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For details and product specifications go to <https://www.associatedenvironmentalsystems.com/xchange>

HD-200's Temperature -65°C to 180°C (-85°F to 356°F)

Model	Overall Dimensions (in)	Inside Dimensions (in)	Working Volume
HD-213	37.5W x 47D x 71.5H	28W x 28D x 28H	12.703 cu. ft.
HD-221	41.5W x 52.5D x 76.5H	32W x 32D x 32H	18.962 cu. ft.
HD-227	54W x 75D x 75.5H	36W x 36D x 36H	27 cu. ft.
HD-232	56W x 77D x 77H	38W x 38D x 38H	31.754 cu. ft.
HD-249	60.5W x 82D x 88H	42W x 43.9D x 42H	44.814 cu. ft.

HD-500's Temperature -37°C to 180°C (-34.6°F to 356°F)

Model	Overall Dimensions (in)	Inside Dimensions (in)	Working Volume
HD-513	37.5W x 47D x 71.5H	28W x 28D x 28H	12.703 cu. ft.
HD-521	41.5W x 52.5D x 76.5H	32W x 32D x 32H	18.962 cu. ft.
HD-527	54W x 75D x 75.5H	36W x 36D x 36H	27 cu. ft.
HD-532	56W x 77D x 77H	38W x 38D x 38H	31.754 cu. ft.
HD-549	60.5W x 82D x 88H	42W x 43.9D x 42H	44.814 cu. ft.
HD-564	67.5W x 85D x 94H	48W x 48D x 48H	64 cu. ft.

HD-400's Temperature -17°C to 180°C (1.4°F to 356°F)

Model	Overall Dimensions (in)	Inside Dimensions (in)	Working Volume
HD-413	37.5W x 47D x 71.5H	28W x 28D x 28H	12.703 cu. ft.
HD-421	41.5W x 52.5D x 76.5H	32W x 32D x 32H	18.962 cu. ft.
HD-427	54W x 75D x 75.5H	36W x 36D x 36H	27 cu. ft.
HD-432	56W x 77D x 77H	38W x 38D x 38H	31.754 cu. ft.
HD-449	60.5W x 82D x 88H	42W x 43.9D x 42H	44.814 cu. ft.
HD-464	67.5W x 85D x 94H	48W x 48D x 48H	64 cu. ft.

Power requirements vary by model