

S-Series Environmental Test Chambers

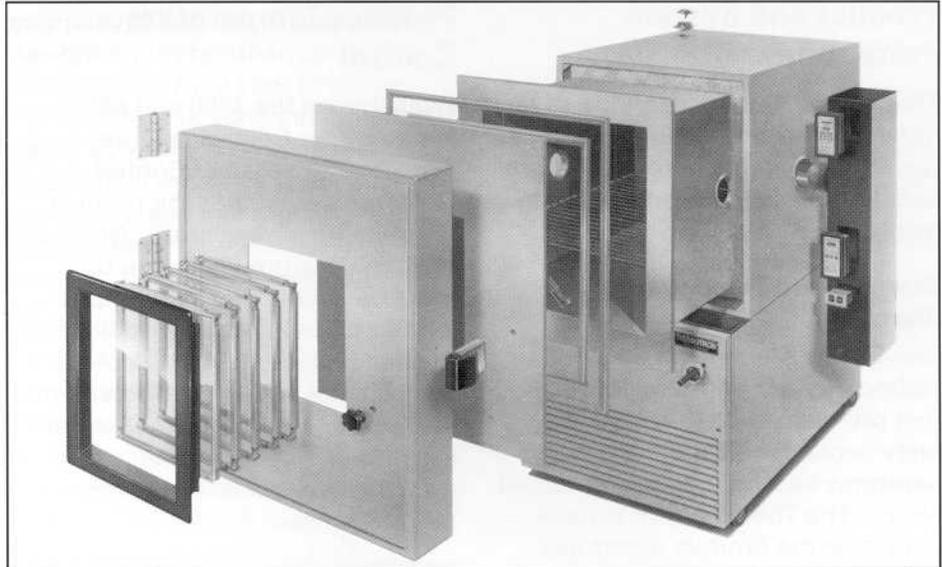
S-Series test chambers can be used for a wide variety of prototype and durability tests, and production component screening. The product line contains over 25 standard models, so you can cost effectively select the exact model that best meets your test criteria. Most units are available for immediate shipment and need very little set-up after delivery.

High and low temperature, humidity, and temperature/humidity tests can all be performed in S-Series chambers. Sizes range from benchtop models of 1.2 cu. ft. to upright models with 35 cu. ft. capacities. There are several high performance models included which provide faster temperature change rates for flexibility beyond typical test ranges.

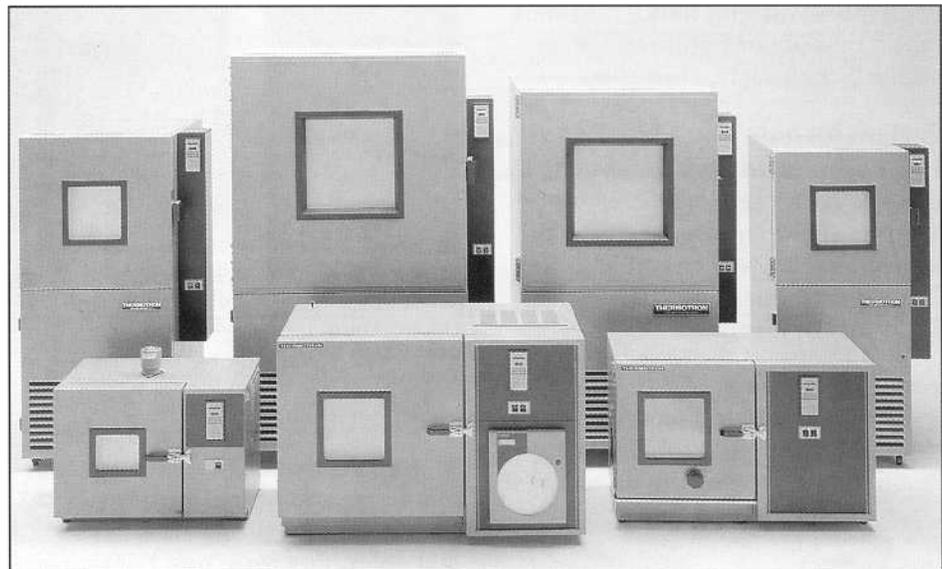
Most units are equipped with the 2800 or 4800 Programmer/Controller give you 256 programmable intervals and up to 4 auxiliary outputs. All units have the ThermAlarm to protect the chamber and test product from temperatures in excess of prescribed limits.

S-Series test chambers all utilize integrated instrumentation and controls, so the units are reliable and easier to use. Just specify the types of tests you will be performing and Thermotron will recommend the best unit to meet your needs.

As the leader in test chamber manufacturing, Thermotron has designed the chambers and the instrumentation to insure tight temperature and humidity tolerances. Each is built to meet the most stringent quality standards, assuring you years of dependable performance.



Standard test chamber construction and detail



A full range of sizes are included in the S-Series. From left to right; front row - 1.2 cu. ft., 5.5 cu. ft., 3.5 cu. ft.; back row - 8 cu. ft., 32 cu. ft., 16 cu. ft., 4 cu. ft.

S-Series Specifications

Model # (# is Cu. Ft.)	Temperature Range	Humidity Range	Approximate Change Rate
S-1.2C	-73°C to +177°C -100°F to +350°F	NA	3-4°C/min
S-5.5C	-68°C to +177°C -90°F to +350°F		
SM-3.5S	-17.8°C to +110°C -0°F to +230°F	20% to 98%	3-4°C/min
SM-5.5S	-28.9°C to +177°C -20°F to +350°F		
SM-5.5C	-68°C to +177°C -90°F to +350°F		
S-4S-SL	-40°C to +177°C -40° F to +350°F	NA	2-3°C/min
S-8S-SL			
S-16S-SL			
S-32S-SL			
S-4C	-73°C to +177°C -100°F to +350°F	NA	3-4°C/min
S-8C	-68°C to +177°C -90°F to +350°F		
S-16C	-73°C to +177°C -100°F to +350°F		
S-32C	-68°C to +177°C -90°F to +350°F		
SM-4S	-28.9°C to +177°C -20°F to +350°F	20% to 98%	2-3°C/min
SM-8S			
SM-16S			
SM-32S			
SM-4S-SL	-40°C to +177°C -40°F to +350°F	20% to 98%	2-3°C/min
SM-8S-SL			
SM-16S-SL			
SM-32-S-SL			
SM-4C	-68°C to +177°C -90°F to +350°F	20% to 98%	3-4°C/min
SM-8C			
SM-16C			
SM-32C			
SM-4S-SH	+10°C to +177°C +50°C to +350°F	60% to 98%	NA
SM-8S-SH			
SM-16S-SH			
SM-32S-SH			
HPS-8	-73°C to +177°C -100°F to +350°F	NA	7°C/min
HPS-16			10°C/min
HPS-35			15°C/min
SM-10C-810	-68°C to +177°C -90°F to +350°F	20% to 98%	2-3°C/min

Standard Features of S-Series Chambers:

- Standard 2800 Programmer/Controller – for easy set up and accurate control
- Built-in Therm-Alarm – protects product under test and chamber from potentially damaging out-of-tolerance conditions
- Quick delivery – most S-Series chambers are available for immediate shipment, no costly delays
- UL Approved – satisfies most local code requirements
- High quality insulation, silicone gaskets and high volume circulation fan – for uniform temperature and humidity conditions
- Adjustable stainless shelf – increases the number of products that may be tested at one time
- Stainless steel flanged port with insulating plug – provides wiring access to product under test
- Multi-pane window and internal light with external switch – makes visual product monitoring convenient

Chamber Dimensions and Capacities

Workspace Dimension (in/cm)			
cu.ft.	wide	x deep	x high
1.2	16/41	11/28	12/31
3.5	17/43	18/46	20/51
4.0	20/51	20/51	20/51
5.5	20/51	20/51	24/61
8.0	24/61	24/61	24/61
10	24/61	24/61	34/86
16	30/76	30/76	30/76
32	38/96	38/96	38/96
35	42/107	40/102	36/91