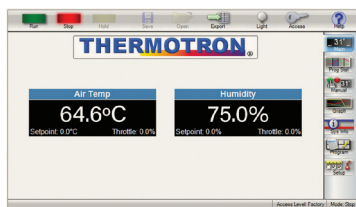


S/SM-8200+ BENCHTOP ENVIRONMENTAL CHAMBER

Benchtop Environmental Test Chambers provide superior performance for a wide range of applications. Engineering expertise assures optimum performance while chamber construction meets critical standards. Benchtop chambers offer the flexibility, reliability, uniformity, and control accuracy required for cost effective testing in a convenient tabletop size in temperature-only and temperature-humidity configurations. The chambers are also equipped with Thermotron's exclusive Windows®-based 8200+ Controller, which gives users a deeper look at what is happening to the product under test.

Features

- 8200+ Controller
- 0.9 to 1.5 cubic feet (25-42 liters)
- Access Port with Plug
- Cascade Refrigeration System
- Ethernet Connection
- Electronic Humidity Sensor (*SM models only*)
- Full Range Humidity System (*SM models only*)



SM-1.0-8200



8200+ Controller

The enhanced 8200+ Controller features an intuitive touchscreen display, with quick and efficient performance. Users can securely and easily enter and monitor test data with a familiar Windows®-based interface.

Built-in Graphing Capabilities

users pinpoint the exact data they wish to see

Ethernet Connection

easy and secure data export and remote PC access

Password-Based Security

multi-level, system protects sensitive data

Quick Step Wizards

easy program entry, test setup, and product monitoring

Transferable Spreadsheet Data

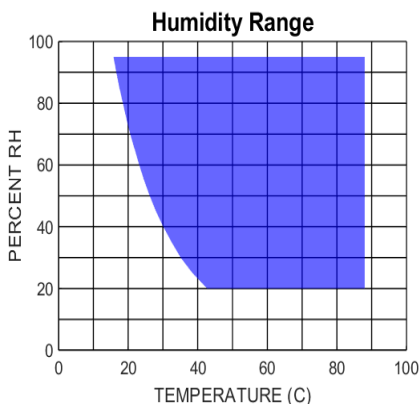
test data can be exported to commonly used spreadsheet formats and transferred via USB

Web Server

view the controller status from any computer connected to the network

Humidity Range

Temperature-Humidity Benchtop Chambers are ideal for testing products exposed to humidity extremes in their normal use environment. The electronic humidity sensor (located in the workspace) eliminates the need for maintenance-intensive thermocouple wicks and float tanks, and it provides excellent full-range humidity accuracy.



Optional Features

- Additional Access Ports
- Dry Air or GN₂ Purge System
- Recorder*
- Cart
- Four Monitor Channels
- Refrigeration Gauges*
- Cable Notch
- Product Temperature Control (PTC) Software
- Shelves
- Custom Finishes
- RS-232-485 or GPIB Interface Connection
- ThermAlarm®
- CSA or CE Electrical Code
- Window

* Not available on SM-1.0

GENERAL SPECIFICATIONS

	S-1.0-8200	SM-1.0-8200	S-1.2-8200	S-1.5-8200
Temperature Range [^]	-40°C to 130°C (-40°F to 266°F)		-73°C to 180°C (-100°F to 356°F)	
Workspace Dimensions — WxDxH — in / cm	14 x 8 x 14 / 36 x 20 x 36		16 x 11 x 12 / 41 x 28 x 30	20 x 11 x 12 / 51 x 28 x 30
Exterior Dimensions — WxDxH — in / cm	18 x 23 x 30 / 46 x 58 x 76		30 x 22 x 41 / 76 x 56 x 104	34 x 22 x 41 / 86 x 56 x 104
Controller Screen Size — Inches	5			
Volume — Cubic Feet / Liters	0.89 / 25		1.2 / 34	1.5 / 42
Shipping Weight (approx.) — Pounds / Kg	235 / 106	250 / 113	320 / 145	400 / 181
Cooling Performance ^{1^} — Minutes				
25°C to -35°C (77°F to -31°F)	42		18	22
25°C to -40°C (77°F to -40°F)	-		20	24
25°C to -54°C (77°F to -65°F)	-		30	36
Heating Performance ¹ — Minutes				
25°C to 110°C (77°F to 230°F)	16		18	22
25°C to 130°C (77°F to 266°F)	26		26	31
25°C to 180°C (77°F to 356°F)	-		45	54
Live Load Capacity — Watts, Temp. Mode				
+10°C (50°F)	300		-	-
-18°C (0°F)	125		350	250
-40°C (-40°F)	-		250	175
-54°C (-65°F)	-		200	150
Humidity Range ²	-	20% to 95%RH (±2.5%)	-	-
Window Size — WxH — in / cm	optional		6 x 8 / 15 x 20	
Electrical Service — Full Load Amps				
115 / 1 / 60	13.8*		16	
220 / 1 / 50	9.5		11	
Compressor Size	(1) 1/3 HP		(2) 1/3 HP	

¹ Average

² Limited by 15°C (59°F) minimum dewpoint and max dry bulb of 88°C (190°F). RH tolerance is specified at a dry bulb temperature above 20°C (68°F)

[^]Cooling performance is based on standard refrigerants. Low-GWP refrigerants are available with reduced cooling rates. Single-stage systems are generally limited to -35°C (-31°F) with non-standard refrigerants.

*20 Amp minimum service/20 Amp plug on a 6 ft cord.

Temperature Control Tolerance is ±1.1°C (2°F)

The addition of accessories may impact performance or increase exterior dimensions.

Performance is based upon 60 Hz and 23.9°C (75°F) ambient air. Chambers are designed for normal, non-hazardous laboratory operating conditions. If hazardous materials are involved, please consult the factory.

Specifications subject to change without notice.

Exterior color options



Chamber Blue™



Lab Gray™



Custom Colors Available

