

Altitude Test Chambers

Thermotron's Altitude Test Chambers can test products at varying temperatures and altitudes up to 100,000 feet. The humidity option can be added to precisely simulate real-life conditions. Standard safety features include a cam action lock, internal pressure liner, and interlocked heaters. Altitude Chambers are ideal for military, aerospace, automotive, electronics, and other industrial applications.

Chamber Features

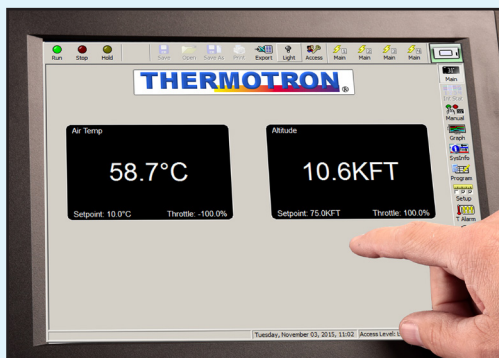
- **Altitude Range up to 100,000 ft.** (30.5 km; 8 torr)
- **Range of Sizes: 4 to 96 ft³** (113 to 2,718 Liters)
- **Temperature Range: -73°C to 177°C** (-100°F to 350°F)
- **Humidity Range from 20% to 95% RH** (optional)
- **8800 Controller**
- **Worldwide Service and Support**



Chamber Options

- Extended Altitude Range up to 150,000 ft. (45.7 km; 1 torr)
- Humidity System
- Humidity Water Purification System
- Remote Air-Cooled Condenser
- Heat-Tempered, Multi-Pane Window with Bars
- Interior Light
- Shelves
- Access Ports
- Casters
- Refrigeration Quiet Package
- Electrical Disconnect Switch
- Chart Recorder
- GPIB (IEEE-488™)
- CE and CSA Compliant
- Positive Pressure
- External Pressure Member

8800 Controller



Thermotron's exclusive 8800 Controller incorporates state-of-the-art automatic altitude control, monitoring, graphing, and report generation on a 12" touchscreen. Data collection and operation are easy and reliable with an intuitive Windows®-based interface.

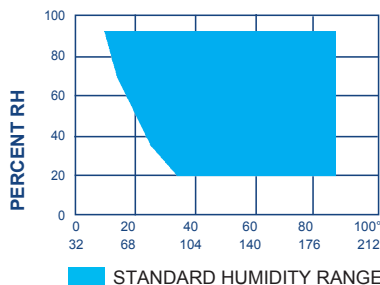
A multi-level, password-based security system protects data, which downloads to common spreadsheet formats. An Activity Log retains 10-plus years of chamber history. The 8800 is Ethernet-compatible and web-enabled for anytime/anywhere access.

Altitude Test Chamber General Specifications

Model	Interior Dimensions W x D x H	Exterior Dimensions W x D x H	Workspace Volume	Approx. Shipping Weight
Temperature-Only				
FA-4-CH-1-1	20 x 20 x 20 in. / 51 x 51 x 51 cm.	32 x 34 x 82 in. / 81 x 86 x 208 cm.	4 ft ³ / 131 L	1,500 lbs. / 680 kg.
FA-10-CH-3-3	24 x 24 x 32 in. / 61 x 61 x 81 cm.	48 x 60 x 91 in. / 122 x 152 x 231 cm.	10 ft ³ / 302 L	2,500 lbs. / 1,134 kg.
FA-10-CH-5-5	24 x 24 x 32 in. / 61 x 61 x 81 cm.	48 x 60 x 91 in. / 122 x 152 x 231 cm.	10 ft ³ / 302 L	3,000 lbs. / 1,361 kg.
FA-16-CH-3-3	24 x 38 x 32 in. / 61 x 97 x 81 cm.	48 x 74 x 91 in. / 122 x 188 x 231 cm.	16 ft ³ / 478 L	3,500 lbs. / 1,587 kg.
FA-16-CH-5-5	24 x 38 x 32 in. / 61 x 97 x 81 cm.	48 x 74 x 91 in. / 122 x 188 x 231 cm.	16 ft ³ / 478 L	4,000 lbs. / 1,814 kg.
FA-35-CH-3-3	38 x 38 x 42 in. / 97 x 97 x 107 cm.	64 x 79 x 108 in. / 163 x 201 x 274 cm.	35 ft ³ / 994 L	5,000 lbs. / 2,268 kg.
FA-35-CH-5-5	38 x 38 x 42 in. / 97 x 97 x 107 cm.	64 x 79 x 108 in. / 163 x 201 x 274 cm.	35 ft ³ / 994 L	5,500 lbs. / 2,494 kg.
FA-35-CH-7.5-7.5	38 x 38 x 42 in. / 97 x 97 x 107 cm.	64 x 79 x 108 in. / 163 x 201 x 274 cm.	35 ft ³ / 994 L	6,000 lbs. / 2,721 kg.
FA-46-CH-5-5	38 x 50 x 42 in. / 97 x 127 x 107 cm.	64 x 91 x 108 in. / 162 x 231 x 274 cm.	46 ft ³ / 1,307 L	6,500 lbs. / 2,948 kg.
FA-46-CH-7.5-7.5	38 x 50 x 42 in. / 97 x 127 x 107 cm.	64 x 91 x 108 in. / 162 x 231 x 274 cm.	46 ft ³ / 1,307 L	7,000 lbs. / 3,175 kg.
FA-64-CH-7.5-7.5	48 x 48 x 48 in. / 122 x 122 x 122 cm.	75 x 93 x 110 in. / 191 x 236 x 279 cm.	64 ft ³ / 1,812 L	8,500 lbs. / 3,856 kg.
FA-64-CH-15-15	48 x 48 x 48 in. / 122 x 122 x 122 cm.	75 x 93 x 110 in. / 191 x 236 x 279 cm.	64 ft ³ / 1,812 L	9,000 lbs. / 4,082 kg.
FA-96-CH-7.5-7.5	48 x 72 x 48 in. / 122 x 183 x 122 cm.	75 x 117 x 110 in. / 191 x 297 x 279 cm.	96 ft ³ / 2,718 L	9,500 lbs. / 4,308 kg.
FA-96-CH-15-15	48 x 72 x 48 in. / 122 x 183 x 122 cm.	75 x 117 x 110 in. / 191 x 297 x 279 cm.	96 ft ³ / 2,718 L	10,000 lbs. / 4,533 kg.
Temperature - Humidity				
FA-10-CHM-3-3	24 x 24 x 32 in. / 61 x 61 x 81 cm.	48 x 60 x 91 in. / 122 x 152 x 231 cm.	10 ft ³ / 302 L	2,500 lbs. / 1,134 kg.
FA-10-CHM-5-5	24 x 24 x 32 in. / 61 x 61 x 81 cm.	48 x 60 x 91 in. / 122 x 152 x 231 cm.	10 ft ³ / 302 L	3,000 lbs. / 1,361 kg.
FA-16-CHM-3-3	24 x 38 x 32 in. / 61 x 97 x 81 cm.	48 x 74 x 91 in. / 122 x 188 x 231 cm.	16 ft ³ / 478 L	3,500 lbs. / 1,587 kg.
FA-16-CHM-5-5	24 x 38 x 32 in. / 61 x 97 x 81 cm.	48 x 74 x 91 in. / 122 x 188 x 231 cm.	16 ft ³ / 478 L	4,000 lbs. / 1,814 kg.
FA-35-CHM-3-3	38 x 38 x 42 in. / 97 x 97 x 107 cm.	64 x 79 x 108 in. / 163 x 201 x 274 cm.	35 ft ³ / 994 L	5,000 lbs. / 2,268 kg.
FA-35-CHM-5-5	38 x 38 x 42 in. / 97 x 97 x 107 cm.	64 x 79 x 108 in. / 163 x 201 x 274 cm.	35 ft ³ / 994 L	5,500 lbs. / 2,494 kg.
FA-35-CHM-7.5-7.5	38 x 38 x 42 in. / 97 x 97 x 107 cm.	64 x 79 x 108 in. / 163 x 201 x 274 cm.	35 ft ³ / 994 L	6,000 lbs. / 2,721 kg.
FA-46-CHM-5-5	38 x 50 x 42 in. / 97 x 97 x 107 cm.	64 x 91 x 108 in. / 162 x 231 x 274 cm.	46 ft ³ / 1,307 L	6,500 lbs. / 2,948 kg.
FA-46-CHM-7.5-7.5	38 x 50 x 42 in. / 97 x 97 x 107 cm.	64 x 91 x 108 in. / 162 x 231 x 274 cm.	46 ft ³ / 1,307 L	7,000 lbs. / 3,175 kg.
FA-64-CHM-7.5-7.5	48 x 48 x 48 in. / 122 x 122 x 122 cm.	75 x 93 x 110 in. / 191 x 236 x 279 cm.	64 ft ³ / 1,812 L	8,500 lbs. / 3,855 kg.
FA-64-CHM-15-15	48 x 48 x 48 in. / 122 x 122 x 122 cm.	75 x 93 x 110 in. / 191 x 236 x 279 cm.	64 ft ³ / 1,812 L	9,000 lbs. / 4,082 kg.
FA-96-CHM-7.5-7.5	48 x 72 x 48 in. / 122 x 183 x 122 cm.	75 x 117 x 110 in. / 191 x 297 x 279 cm.	96 ft ³ / 2,718 L	9,500 lbs. / 4,308 kg.
FA-96-CHM-15-15	48 x 72 x 48 in. / 122 x 183 x 122 cm.	75 x 117 x 110 in. / 191 x 297 x 279 cm.	96 ft ³ / 2,718 L	10,000 lbs. / 4,535 kg.

The two numbers at the end of the model number signify the horsepower of the chamber's compressors. Dimensions may vary with the selection of certain options. General specifications subject to change without notice.

Humidity Range* (Optional)



Humidity Range ¹	20% to 95% RH
Dry Bulb Temperature Range	7°C to 85°C (45°F to 185°F)
Dewpoint Temperature Range	7°C to 84°C (45°F to 183°F)
Humidity Control ²	±5% RH

*Relative humidity indication at or near the physical limits may be affected by sensor accuracy and control tolerance.

- Limited by a 7°C (45°F) minimum dewpoint temperature and a maximum dry bulb temperature of 85°C (185°F).
- At a dry bulb temperature above 20°C (68°F).
- Humidity Testing at Site Level.

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