

**THERMOTRON**<sup>®</sup>  
**SE SERIES TEST CHAMBERS**

Making the Best Value Better.



# SE Series Chambers have more features as standard equipment — making them the best value on the market.



SE SERIES TEST CHAMBERS

### The International Standard

For more than 40 years, Thermotron has set the international standard for high-performance test equipment. By understanding our customer's needs, developing superior test solutions and providing excellent customer service before, during and following the sale, Thermotron continues to raise the bar for quality and innovation worldwide.

Engineered to provide the most accurate and reliable test results in the marketplace, the SE-Series Chambers extend our reputation for excellent reliability and long life. Including more features as standard equipment than any other chamber in the marketplace, Thermotron adds exceptional performance and quality to the SE Series Chambers' test capabilities.

### SE SERIES SIZE/COMPRESSOR CHART

MODEL	CUBIC FT.	LITERS	AVAILABLE COMPRESSORS (HP)					
			2.5	3.5	4	6	10	15
SE-300	10.2	289	X		X	X		
SE-600	20.7	586		X		X	X	X
SE-650	22.6	639		X		X	X	X
SE-1000	34.8	986		X		X	X	X
SE-1200	41.8	1,184		X		X	X	X
SE-1415	50	1,415		X		X	X	X
SE-2000	69.3	1,964		X		X	X	X

*Single stage and cascade models available.*

# SE SERIES Chambers

## Features & Benefits

### **A** Innovative Universal Port *patent pending*

The versatile universal port in the sidewall of our popular SE-Series Chambers interfaces with slide-up modules expanding your chamber's ability to perform thermal shock tests, HALT and HASS, product test system integration and remote conditioning applications. The universal port can be added to new or existing SE-Series Chambers, increasing the flexibility and productivity of your investment.

### **B** Brilliant 12" Color Touch Screen Display

Thermotron's 8800 Programmer Controller offers the largest LCD color display on the market, for easy touch screen entry and increased data access on a single screen. The 8800 is available as a retrofit to existing Thermotron equipment.

### **C** High Performance Temperature Control

With a top end of 180°C, high capacity compressors and product temperature control software, SE-Series Chambers are capable of achieving very rapid product temperature change rates.

### **D** Rigorous Safety Controls

*Thermotron's Therm-Alarm™* protects against temperature extremes. Built-in self diagnostics continually monitor operating systems, tracing problems before they occur and reducing troubleshooting time. Most SE-Series Chambers have earned the UL listing mark for the United States and Canada, a worldwide symbol of safety and confidence.

### **E** Range of Compressor Sizes

With application-specific compressor selections and model configurations, you can match your individual testing needs — a custom solution without the custom price.

### **F** Simplified Humidity System

Our patented modular humidity systems (10% RH to 98% RH, low -10°C dew point) can easily be added later to adapt to your changing test needs. Reliable built-in electronic humidity sensors reduce maintenance and increase accuracy.

### **G** Sleek Styling

The ergonomic design features sleek front and sides with full visibility and non-condensing window. Left or right-hand door hinge adapts to a wide variety of lab layouts, maximizing floor space, while casters add mobility and convenience. A stainless steel door is optional at no additional charge. SE-Series Chambers can be painted blue or grey.

### **H** Optimized Air Flow

Providing conditioning in the center of the workspace where you need it the most, Thermotron's optimized airflow system provides more consistently repeatable test results. Improved gradient control for tighter uniformity means greater accuracy.

#### **Efficient Operation**

Preventive maintenance program reduces downtime; power-saver mode conserves electricity; top condenser air exhaust eases AC strain; all adding up to more cost-efficient operation than other chambers.

#### **Service After the Sale**

SE-Series Chambers include a comprehensive service and support program to protect your investment throughout the life of your chamber. Thermotron's warranty backs every chamber sold, lowering the ongoing cost of ownership.

Thermotron's worldwide service centers and experienced technical support staff provide expert assistance on-site or on-call. Preventive maintenance, service seminars, factory-direct assistance and a complete inventory of standard parts and components are all designed to keep your system up and running. We also provide overnight delivery on emergency parts orders if needed.

#### **The Best Value on the Market**

With more standard features and options to expand your chamber's versatility, the SE-Series is simply the best value on the market. Building on our reputation for greater accuracy, reliability and customer-focused service, Thermotron continues to set the standard for the industry.



**H** Optimized Air Flow



**A** Universal Port

**G** Sleek Styling

**B** 8800 Color Touch Screen Controller

**C** High Performance Change Rates

**D** Refrigeration Pressure Transducers

**F** Modular Humidity System

**E** Range of Compressor Sizes



# THERMOTRON®

## 8800 Programmer Controller

Touch Screen Technology with 12" Display

With a brilliant 12" color touch screen display, the powerful 8800 Programmer Controller makes operation and data collection easier and more reliable than ever before. Our controller has a Windows look and feel to support familiar and robust operations. The 8800 is ethernet-compatible and web-enabled with an Internet-ready front end for virtual anytime/anywhere access. Multi-level, password-based security protects sensitive data. The 8800 can be easily retrofitted on-site to existing chambers.



■ Quick-step wizards make profile entry easy.

■ "What's This?" and on-line help resources.

■ Quick Nav buttons provide time-saving shortcuts to user defined access screens.



■ Expanded graphing capabilities offer enhanced programming and reporting.

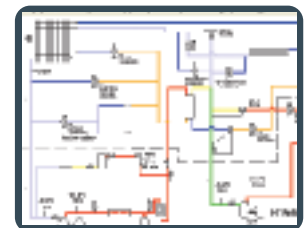
■ Solenoid pulse counts provide predictive maintenance information to optimize equipment up-time.

Date	Time	Temperature
1/1/2008	12:00	100.0
1/1/2008	12:05	100.0
1/1/2008	12:10	100.0
1/1/2008	12:15	100.0
1/1/2008	12:20	100.0
1/1/2008	12:25	100.0
1/1/2008	12:30	100.0
1/1/2008	12:35	100.0
1/1/2008	12:40	100.0
1/1/2008	12:45	100.0

■ Complete data retention provides comprehensive equipment operation and trip history.



■ External USB port with flash drive provides faster, more convenient transfer of massive files.



■ Real-time refrigeration system schematic displays actual system temperature and pressure, simplifying trouble shooting and maintenance.





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## SE SERIES Chambers

### Standard and Optional Features

#### Standard Features for all Models

- 12" Color Touch Screen Display.
- Programmer Mounted on Door.
- On-Line, Context Sensitive Help Written Into Software.
- USB Port with Flash Drive Replaces Disk Drive.
- Instrumentation Designed Specifically for the Application.
- Pre-Programmed Test Profiles (IEC, MIL STD, etc.).
- Electronic Refrigeration Gauges and Pressure Switches.
- System Monitor Provides Continual Diagnostics.
- Clean Top and Sides, Nothing Mounted Externally.
- Increased Workspace Accommodates More or Larger Products.
- Top Exhaust for Cooling Air.
- Innovative Air Distribution System Provides Improved Product Testing.
- Lift-Off Panels For Easy Access.
- Extensive Direct Factory-Trained Service Force.
- Larger Compressors to Increase Performance.
- Electronic Humidity Sensor Requires Minimal Maintenance and Increases Accuracy (Humidity Models Only).
- Lower Workspace Height for Easier Product Loading and Unloading.
- HFC Refrigerants Comply with Environmental Regulations.
- Main Power Disconnect Switch.
- Therm-Alarm™ Over/Under Temperature Protection Instrument.
- 2 Ports for Convenient Access to Test Items, One Each Side.
- Adjustable Stainless Steel Shelf Increases Product Loading Capacity.
- Casters for Mobility Into and Throughout Lab.

#### Optional Features

- Modular Humidity System.
- Low Humidity System.
- Remote Conditioning Blower System.
- Universal Port.
- Product Loading Carts.
- Dry Air Purge System.
- Liquid Nitrogen Boost and Extra Heat.
- Humidity Water Recirculation System.
- Humidity Water Purification System.

*All features subject to change without notice. CE compliant models available.*