



**For Information and to Order  
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**Note: Data Sheet For Reference Only - Actual Chamber May Vary Depending on Model Year, Options, Controllers, and Individual Configuration**

# Thermotron

## SE-300-4-4 Environmental Chamber

|                                       |   |
|---------------------------------------|---|
| <b>Workspace Dimensions—WxDxH:</b>    | 24 x 26.25 x 28 inches<br>61 x 67 x 71<br>centimeters |
| <b>Workspace Volume:</b>              | 10.2 ft <sup>3</sup><br>289 L                         |
| <b>Temperature Uniformity:</b>        | ±0.5°C (±0.9°F)                                       |
| <b>Temperature Range:</b>             | -70°C to 180°C<br>(-94°F to 356°F)                    |
| <b>Temperature Control Tolerance:</b> | 0.3°C (0.5°F)   |
| <b>Approx. Shipping Weight:</b>       | 1,410 lbs<br>640 kg                                   |
| <b>Move-In Dimensions—WxDxH:</b>      | 35 x 70 x 78 inches<br>89 x 178 x 198<br>centimeters  |

|  |              |
|--|--------------|
| <b>Inlet Water Gal / Liters per Minute 24°C / 75°F:</b>        | Air-Cooled   |
| <b>Inlet Water Gal / Liters per Minute 18°C / 65°F:</b>        | Air-Cooled   |
| <b>Inlet Water Gal / Liters per Minute 13°C / 55°F:</b>        | Air-Cooled   |
| <b>Inlet Water Gal / Liters per Minute 29°C / 85°F:</b>        | Air-Cooled   |
| <b>Humidity Range:</b>   | 10 to 98% RH |
| <b>Humidity Control:</b>                                       | +/- 2.5% RH  |
| <b>Heating Performance in Minutes -65° to 71°C:</b>            | 9            |
| <b>Heating Performance in Minutes -65° to 180°C:</b>           | 22           |
| <b>Heating Performance in Minutes -40° to 85°C:</b>            | 8            |
| <b>Heating Performance in °C/Minute -65° to 71°C:</b>          | 15.1°C       |
| <b>Heating Performance in °C/Minute -65° to 180°C:</b>         | 11.1°C       |
| <b>Heating Performance in °C/Minute-40° to 85°C:</b>           | 15.6°C       |
| <b>Electrical Requirements in Full Load Amps 460 / 3 / 60:</b> | 28           |
| <b>Electrical Requirements in Full Load Amps 400 / 3 / 50:</b> | 29           |
| <b>Electrical Requirements in Full Load Amps 230 / 3 / 60:</b> | 55           |

|   |         |
|---|---------|
| <b>Electrical Requirements in Full Load Amps</b><br>208 / 3 / 60: | 27      |
| <b>Cooling Performance in Minutes 85° to -40°C:</b>               | 17      |
| <b>Cooling Performance in Minutes 71° to -65°C:</b>               | 26      |
| <b>Cooling Performance in Minutes 180° to -65°C:</b>              | 45      |
| <b>Cooling Performance in °C/Minute 85° to -40°C:</b>             | 7.4°C   |
| <b>Cooling Performance in °C/Minute 71° to -65°C:</b>             | 5.2°C   |
| <b>Cooling Performance in °C/Minute 180° to -65°C:</b>            | 5.4°C   |
| <b>Airflow</b>  | 500 CFM |

## Notes

- The window sizes for all SE Environmental Chambers are 15 x 19 inches / 38 x 48cm. Custom window sizes are available.
- Temperature Control:  $\pm 0.3^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{F}$ ). Standard deviation from mean, measured at  $-25^{\circ}\text{C}$  ( $-13^{\circ}\text{F}$ ) or  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).
- Air temperature is measured with an empty climatic chamber
- SE-300 Environmental Chambers are tested with 25 lbs/11 kg of aluminum sheets.
- Climate Chamber performance is based upon laboratory ambient conditions of  $23.9^{\circ}\text{C}$ , and may vary slightly.
- IEC specification based on the time the test chamber takes to pass through the middle 80% of the full temperature range when conducting a transition over this range.
- Noise Level: A weighted sound pressure level measured at a distance of 1.0 meter (39.4 inches) from the equipment surface and a height of 1.6

meters (63 inches) from the floor in free-field conditions, using a calibrated instrument.

- Air-cooled indicates that an onboard condenser is standard and a water-cooled condenser is optional. Environmental Chambers with listed water requirements can be built with remote air-cooled condensers.
- Thermotron environmental test equipment is not designed to process hazardous materials. Consult an application engineer if hazardous materials are involved.

Additional accessories may impact performance of the test chamber. SE Environmental Chamber specifications are subject to change without notice.

**Used Refurbished - Warranted Test Chambers Available at LR Environmental 800-574-2748 323-770-0634 Visit Our Web Site To View Inventory [www.LRE.com](http://www.LRE.com)**