



Hot Air Sterilizers STE

Reliable Sterilization

EHRET Hot Air Sterilizers

are engineered to meet the most stringent requirements for dry heat sterilization and depyrogenation processes, particularly within the sensitive production environments of the pharmaceutical industry.

The core philosophy guiding our development and manufacturing is the rigorous implementation of current regulations and guidelines for pharmaceutical production. This ensures consistent compliance with relevant regulatory requirements (FDA, cGMP, GAMP, PIC/S, and ISO 14644) as well as the essential design principles for Hygienic Design.

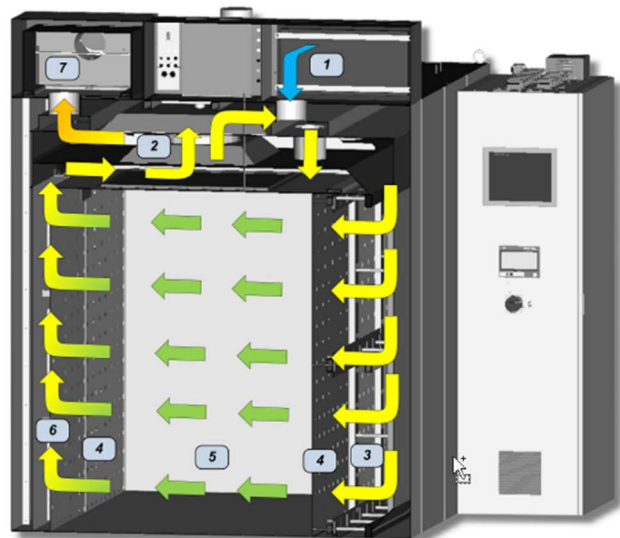
Key Features

- ▶ Cleanliness class within the workspace: ISO 14644-1 Class 5 / ISO 14644-1 Class 7
- ▶ Temperature range: adjustable up to +280 °C
- ▶ Stainless steel construction: Grade 1.4301 (AISI 304)
- ▶ Pharma-compliant control system: Siemens S7-1500 PLC
- ▶ Full compliance: meets all requirements for cGMP – GAMP, 21 CFR Part 11, ERES, and Audit Trails
- ▶ Connectivity: automatic batch reporting and integration with SCADA systems
- ▶ Configuration: available as single-door or double-door (pass-through) models
- ▶ Mixed cooling system: features an air/water heat exchanger to optimize cycle times



Legend:

-  Supply air via H14 HEPA filter
-  Recirculated air (pre-HEPA filter)
-  Recirculated air (post-HEPA filter, optional)
-  Exhaust air
-  Supply air filter HEPA H14
-  Recirculation fan
-  Recirculation filter, HEPA H13 (optional)
-  Air baffle
-  Internal chamber
-  Tubular heating elements (not shown)
-  Exhaust air filter, HEPA H13



Product Specifications and Options

Model	STE700-2	STE1500-2	STE2500-2
External dimensions WxHxD (mm) + door handle 61 mm	2050x2000x1100	2300x2350x1250	2300x2950x1250
Internal chamber dimensions WxHxD (mm)	980x1100x800	1250x1375x950	1250x1975x950
Volume (L) approx.	850	1600	2300
Net weight (kg)	850	1350	1700
Max. total load capacity (kg)	300	500	700
Power rating 400 V / 50 Hz (kW)	16	28	40
Temperature range (process temperature) (°C)	bis +280		
Spatial / Temporal temperature deviation in the chamber at +250 °C	± 5 / ± 1,5		
Maximum door opening temperature (°C)	100		
Unregulated chamber overpressure relative to ambient (Pa)	50-500		
ISO Class 7 / Class 10,000:			
up to + 250 °C	☒	☒	☒
up to +280 °C	☐	☐	☐
ISO Klasse 5/ Klasse 100:			
up to + 210 °C	☐	☐	☐
up to + 280 °C	☐	☐	☐
Supply air filter H14	☒	☒	☒
Recirculation filter H13, heat-resistant	☐	☐	☐
Exhaust air filter H13, heat-resistant	☐	☐	☐
Single-door configuration	☒	☒	☒
Double-door / Pass-through configuration	☐	☐	☐
Air / Water cooling system	☒	☒	☒
Validation port in the door (loading side)	☒	☒	☒
DEHS ports for filter integrity testing	☒	☒	☒

Model	STE700-2	STE1500-2	STE2500-2
Internal chamber, perforated shelves incl. shelf rails or optional shelf trolley (internal)			
Stainless steel 1.4301 (AISI 304)	■	■	■
Stainless steel 1.4571 (AISI 316Ti)	□	□	□
Stainless steel 1.4404 (AISI 316L)	□	□	□
Transport trolley (external), stainless steel 1.4301 (AISI 304)	□	□	□
Pneumatic door seal (inflatable)	□	□	□
EATON Touch Panel XVS 450			
12" TFT screen with integrated PLC and decentralized I/Os	□	□	□
Siemens S7-1500 PLC with TP1200 / TP700 operator panel	□	□	□
Siemens IPC systems with PM-Quality add-ons	□	□	□
E+H Memograph M RSG45			
Data manager and 6-channel temperature recorder with Audit Trail (21 CFR Part 11 compliant)	□	□	□
SCADA system integration via Ethernet (only in conjunction with S7)	□	□	□
Chamber pressure indicator	■	■	■
Chamber pressure control	□	□	□
DC UPS for PLC, recorder, and sensors	□	□	□
UPS for maintaining GMP-compliant status, incl. AC UPS (excluding heating)	□	□	□
Stainless steel cladding	□	□	□
Standard documentation	■	■	■
GAMP5 Compliance:			
Basic documentation	□	□	□
Extended documentation	□	□	□
FAT (EHRET-Standard)	■	■	■
Installation Qualification (IQ)	□	□	□
Operational Qualification (OQ)	□	□	□
Site Acceptance Test (SAT)	■	■	■

100 Jahre excellence in the development, manufacturing, distribution, and qualification of equipment and systems for laboratory, pharmaceutical, and cleanroom technology



January 2026 · Subject to technical modifications without notice

■ Standard | □ Option | - not available

MADE IN GERMANY