



# ESS-250BKE series

Large Horizontal Autoclave



**STERILIZATION**



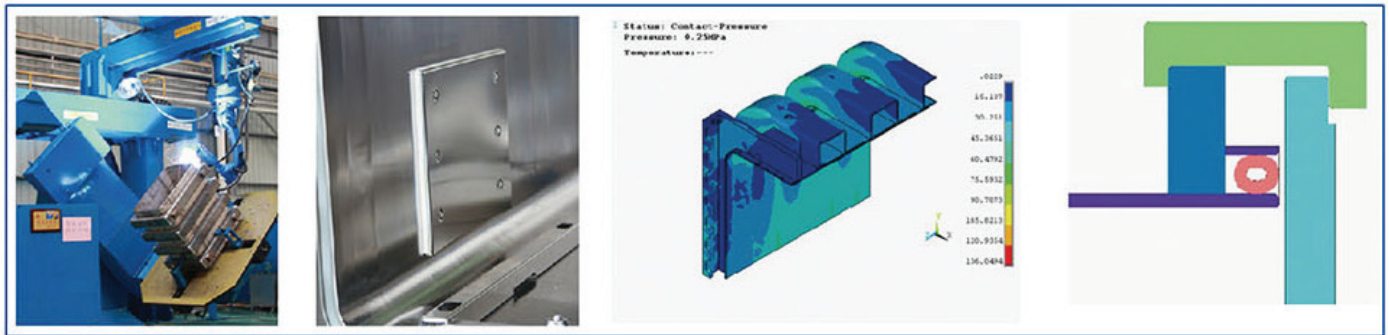
## Application

ESS-250BKE line is a fast, compact and versatile sterilizer which is researched and developed according to the latest requirements of medical institution and CSSD. It is designed and manufactured combines high capacity with cost-efficiency, while offering high operating reliability and easy maintenance

## Description

- **Superb chamber machining and welding process**

The acid-proof stainless steel chamber and jacket are automatically robot-welded to guarantee long time and trouble-free operation.



- **Nice chamber surface**

Surface smoothness,  $Ra \leq 0.5$ ; No welding part or bolt in the chamber which effectively protect the items to be sterilized.

Steam baffle plates are surrounded by silicon rubber protecting the chamber surface.

- **Reliable and durable chamber**

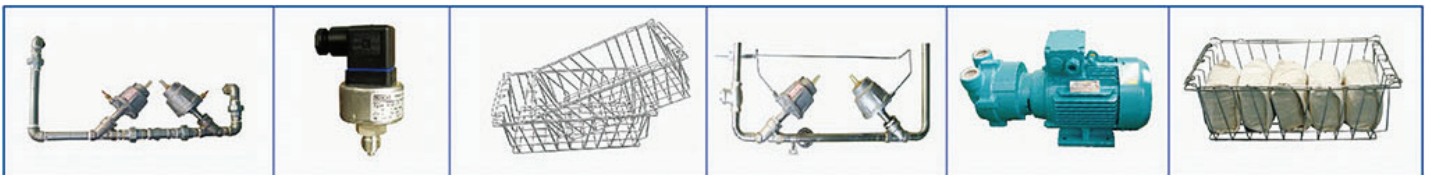
Chamber is designed according to professional analytical method. High-emulation software ANSYS is used for chamber simulation. Design service life: 10 years (or 20000 times sterilization)

- **Reasonable sealing structure**

Compact designed sealing groove, durable circular hollow silicon gasket, sealed by compressed air.

- **Hanged door automatically**

The door is driven by a motor automatically, stable and easy operation. Door concave-convex tooth structure ensures its safety and durability.



imported configuration  
for the pipe system

Pressure transmitter  
imported from Germany

Optional basket

Stainless steel health-class pipe stain  
less steel imported pneumatic valve

Vacuum pump

Loading by basket

- **Precise pressure detecting and control**

Intelligent pressure transmitters, Wika(Germany), ensure steam pressure detecting and control both in Chamber and jacket.

- **Unique vacuum noise-reduction system**

LNS low-noise and water-saving vacuum system, effective reduced the noise during running.

- **Humanized operation system**

Colorful touch screen on loading-side, 6 indicating lamps on unloading sides, which are concise, vivid and exactly showing sterilizing running status and alarming information.

- **Reasonable pipeline layout**

All the pipes, valves and components are designed and installed in single side, which is more convenience for repair and maintenance. The sterilizers can be installed against the wall and also, two sterilizers can use the same maintenance space to save installation space.



Scientific Design Parameters, Wide Scope of Application

Item	Chamber	Jacket
Design Pressure Mpa	-0.1/0.3	0.3
Design Temperature(°C)	144	144
Working Pressure (Mpa)	-0.1/0.25	0.25
Max Working Temperature(°C)	139	139
Safety Valve Open Pressure	0.28	0.28

Loading-side Panel:



7.0" SIEMENS color display touch screen  
CPU226 SIEMENS PLC as central processor

Display Information:

- \* Jacket pressure P1
- \* Chamber pressure P2
- \* Chamber temperature T2
- \* Door operation
- \* Printer ON/OFF
- \* Operator ID and password
- \* Alarm display and record
- \* Program selection
- \* System parameter setting
- \* Manual operation
- \* Cycle process and values in real time

A variety of program:

- \* Fabric 121°C and 134°C
- \* Instrument 121°C and 134°C
- \* Liquid 121°C
- \* Rubber 121°C
- \* Flash 134°C
- \* Gravity 121°C
- \* Automatic leak test
- \* User-defined
- \* Demo

Unloading-side Panel:



Humanistic indicating system:

- \* Back door closing indicating lamp
- \* Back door closed lamp
- \* Cycle running lamp
- \* Cycle end indicating lamp
- \* Breakdown indicating lamp
- \* Power lamp

Sterilization consumables



Sterilizer control



Parcel outer control



Loading control



Parcel inner control



Packing control



Record system



Model	Volume	Chamber size (W*D*H)	External size (W*D*H)	Net weight	Power consumption	Power supply	
ESS-250BKE-140D-A	146L	420*420*830mm	1290*1680*1050mm	425 Kg	2.5KW	380V,50Hz	
ESS-250BKE-140DD-A				525 Kg	18KW		
ESS-250BKE-140S-A			1290*1680*1100mm	510 Kg	2.5KW		
ESS-250BKE-140SD-A				610 Kg	18KW		
ESS-250BKE-240D-A	241L	600*600*670mm	1370*1880*950mm	580 Kg	2.5KW	380V,50Hz	
ESS-250BKE-240DD-A				660 Kg	24KW		
ESS-250BKE-240S-A			1370*1880*1000mm	660 Kg	2.5KW		
ESS-250BKE-240SD-A				720 Kg	24KW		
ESS-250BKE-350D-A	352L	600*600*980mm	1215*1880*1190mm	780 Kg	2.5KW	380V,50Hz	
ESS-250BKE-350DD-A				880 Kg	24KW		
ESS-250BKE-350S-A				1215*1880*1240mm	860 Kg		2.5KW
ESS-250BKE-350SD-A					960 Kg		24KW
ESS-250BKE-350D-B			1215*1880*1190mm	880 Kg	2.5KW	380V,50Hz	
ESS-250BKE-350DD-B				1000 Kg	24KW		
ESS-250BKE-350S-B				1215*1880*1240mm	960 Kg		2.5KW
ESS-250BKE-350SD-B					1080 Kg		24KW
ESS-250BKE-650D-B	655L	610*910*1180mm	1310*2070*1370mm	1170 Kg	4KW	380V,50Hz	
ESS-250BKE-650DD-B				1270 Kg	46KW		
ESS-250BKE-650S-B			1310*2070*1420mm	1270 Kg	4KW		
ESS-250BKE-650SD-B				1370 Kg	46KW		
ESS-250BKE-810D-B	810L	610*910*1460mm	1310*2070*1650mm	1260 Kg	4KW	380V,50Hz	
ESS-250BKE-810DD-B				1360 Kg	61KW		
ESS-250BKE-810S-B			1310*2070*1700mm	1360 Kg	4KW		
ESS-250BKE-810SD-B				1460 Kg	61KW		
ESS-250BKE-990D-B	999L	610*910*1800mm	1310*2070*1990mm	1300 Kg	4KW	380V,50Hz	
ESS-250BKE-990DD-B				1400 Kg	61KW		
ESS-250BKE-990S-B			1310*2070*2040mm	1400 Kg	4KW		
ESS-250BKE-990SD-B				1500 Kg	61KW		
ESS-250BKE-1200D-B	1203L	680*1180*1500mm	1450*1990*1710mm	1950 Kg	5KW	380V,50Hz	
ESS-250BKE-1200S-B			1450*1990*1760mm	2050 Kg	5KW		
ESS-250BKE-1500D-B	1500L	680*1180*1870mm	1450*1990*2080mm	2111 Kg	5KW	380V,50Hz	
ESS-250BKE-1500S-B			1450*1990*2130mm	2211 Kg	5KW		

Model	Meaning
140,240 etc..	Chamber volume L
S/D	Door: S single, D double
No marks/D	Steam supply: No mark – Outer steam supply (optional) D- Built in steam generator
A/B	Installation: A-Shelf loading B-Loading by cart and trolley



ESSE3 srl, Via Garibaldi 30  
14022 Castelnuovo D.B. (AT)  
Tel +39 011 99 27 706  
Fax +39 011 99 27 506  
e-mail [esse3@chierinet.it](mailto:esse3@chierinet.it)  
web: [www.esse3.dreamgest.com](http://www.esse3.dreamgest.com)

