

AST- H pulse vacuum sterilizer



Product introduction

AST H series is a high temperature sterilizer which is researched and developed according to the latest requirements of medical institution and CSSD. It is with series microprocessor controlled systems that realize all the functions needed for all the necessary sterilization functions. It is designed and manufactured by referring to the latest relative state standards to meet all the sterilization requirements of CSSD. The manufacturing and design of chamber accord with state GB 1502011 and Fixed Pressure Vessel Technical Supervision Regulation and the product design complies with Large Steam Sterilizer Technical Requirement, and the European EN285 Standard.



- **Solid structure**

Internal chamber, jackets, connection tubes are made in AISI 316L stainless steel with Robot-welding to secure smooth and no-virus left. External frame, steam generator and bottom are made in AISI 304 stainless steel.

- **Door-Security**

The Doors are with a automatically security system prevents the pressured chamber and anti-collision system to make it in best safety. The user-friendly cutting-edge PLC systems ensures the safety, efficiency, precise stable operation and monitoring during the whole process. Single door unit equips single PLC system set & Double door unit equips double PLC system set.

- **Touch-screen control and display**

All parameters e.g. temperature, pressure, different sterilization stages, actual and remaining time, are displayed on the screen, and with three levels personnel authorizations to secures the best way to use it. Integrated soft-keyboard input meet the requirement of data input and modification

- **Two-way recordings**

Standard integrated print will print all actual the stages process information, optional WLAN connection to PC for the further monitoring and information trace.

- **Maintenance**

Standard two maintenance doors which located on the both sides of the unit make the after-sale service much convenient.

- **Water-supply**

In order to supply certified water to the unit, we recommend to use the ACOTA ACWS series water softener.

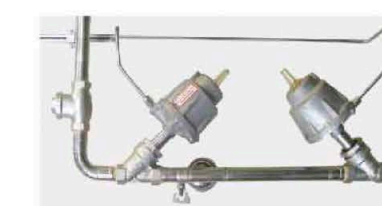
- The chamber adopts specific new design with the bottom centre concave, which makes the condensing water drain out smoothly, and the effective temperature protection measure reduces energy consumption and the burden from air conditioner.
- The use of Automatic Plasma Welding machine from France SAF, the specific welding technology and aging treatment guarantee that the reliable quality for the main body.
- The vertical sliding door structure maximally solves the problem of operation space, and the easy, safe and convenient automatic operation maximally reduce labor for operator. The sealing door has several safety protection and manual open device, which maximally protect the operator in safety.
- The efficient cooling treatment to drainage system reduces the pollution to environment.



Sterilizing basket



Sterilizing container



Pipeline system adopts stainless steel sanitary pipe and world brand pneumatic valve

AST- H pulse vacuum sterilizer

Product features

- **Strict and standard manufacture process for product main body**

AST-H pulse vacuum sterilizer is welded by welding robot to guarantee the normalization and uniformity of the main body manufacture.

- **No welding part on chamber wall**

AST-H pulse vacuum sterilizer has none welding part or bolt in the chamber which effectively protects the parcels to be sterilized. The chamber silicon rubber pad which is used to protect the chamber inner wall extends service life.

- **Reliable and durable main body**

The main body of AST-H pulse vacuum sterilizer is designed according to professional analytical method. The modern high-emulation software ANSYS is used for main body model simulation design. Design service life: 10 years (or 20000 times sterilization)

- **Reasonable sealing structure**

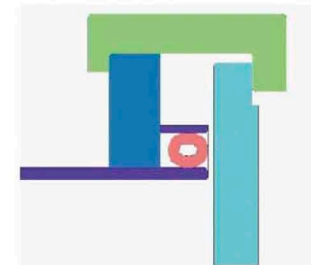
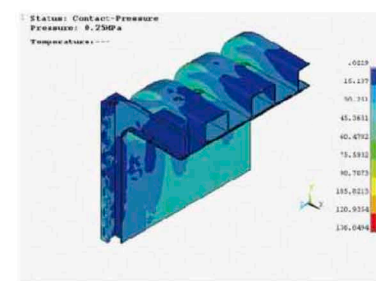
AST-H pulse vacuum sterilizer adopts durable circular hollow sealing ring which is driven by compressed air.

- **Intelligent pressure controller between the chamber and jacket**

AST-H pulse vacuum sterilizer adopts intelligent pressure controller to guarantee steam pressure and quality.

- **Alarm & Self detection system**

Audible and visible alarms system helps to know the malfunction and handling error, with the powerful PLC microprocessor control system makes the unit diagnosis and detection much accurate and convenient.



- **Drying system**

With the build-in cutting edge drying system to achieve magnification fast drying for the contents.

- **Unique vacuum noise-reduction and water-saving system**

AST-H series sterilizer equipped with LNS low-noise and water-saving vacuum system to reduce the operation noise.

- **Humanized operation system**

To meet user's need on unloading side, AST-H pulse vacuum sterilizer adopts double-screen structure. Both loading and unloading sides have a screen to display sterilizer running status and alarming information.

- **Reasonable pipeline layout that realizes single-side repair**

AST-H pulse vacuum sterilizer pipeline realizes single-side repair so that the sterilizer can be installed against the wall. Also, two sterilizers can use same repair space to save installation space.

- **Multiple sterilizing programs**

Compare with traditional sterilizer, AST-H series sterilizer equipped with functions of steam pressure detection and steam saturation measurement. Also, the sterilizer has multiple sterilizing and testing programs such as PCD, rapid, rubber and custom, etc.

- **Traceability system**

With WLAN connection and software integrated from the sterilizers and USER Network system, the traceability system can be realized. (UPON special request)

- **Scientific design parameters, wide scope of application**

Clases	Chamber	Jacket
Design presser MPa	-0.1/0.3	0.3
Design temperature °C	144	144
Working pressure MPa	-0.1/0.25	0.25
Working temperature °C	139	139
Opening pressure of safety valve	0.28	0.28

Sterilization guarantee

1 Sterilizer control

2 Parcel outer control

3 Loading control

4 Parcel inner control

5 Packing control

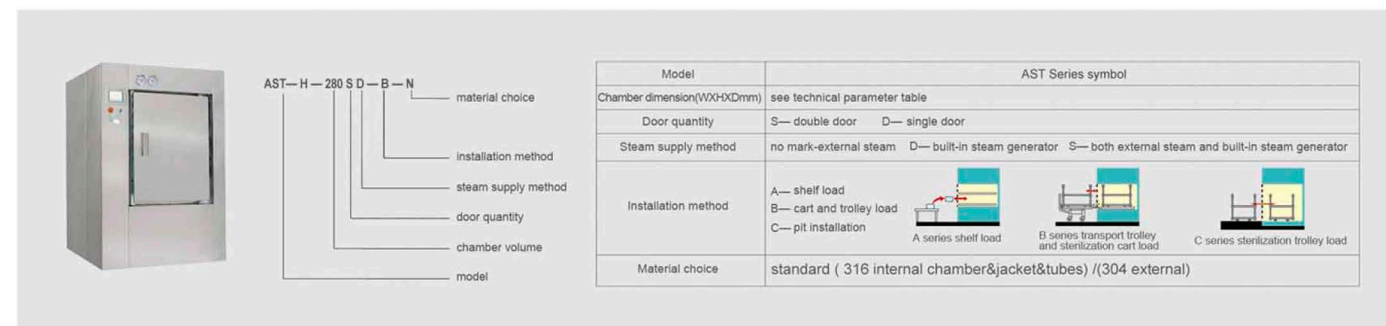
6 Record system

Technical Parameters Automatic Electric Sliding Vertical Door

Order Code	AST-H-280SD-B-N	AST-H-450SD-B-N	AST-H-600SD-B-N	AST-H-800SD-B-N
	AST-H-280DD-B-N	AST-H-450DD-B-N	AST-H-600DD-B-N	AST-H-800DD-B-N
Design Pressure	-0.1/0.3			
Max. Working Temperature	139°C			
Chamber Dim. (L×W×H) mm	1000 x 535 x 535	1000 x 675 x 675	1350 x 675 x 675	1750 x 675 x 675
Overall Dim. (L×W×H) mm	1200 x 1800 x 1340	1307 x 1900 x 1340	1307 x 1900 x 1690	1307 x 1900 x 2090
Weight (kg)	970	1350	1550	1850
ISO standard basket(600×400×200)mm	two-layer loading rack	4	6	8
ISO standard pack (600×300×300)mm		6	8	8
Water supply: 0.15~0.3MPa	400kg/cycle	500kg/cycle	600kg/cycle	700kg/cycle
Steam supply: 0.3~0.5MPa	build-in steam generator			
Compressed air supply: 0.5~0.7MPa	0.05M ³ /min			
Power: AC 380V, 50Hz	29KW	46KW	48KW	54KW
controller	Siemens touch screen control, 9 sterilization program (1 for customized) 3 testing program Total 12 Programs			

220V, 60Hz is optional

Language available : Dutch ,English, Spanish, French



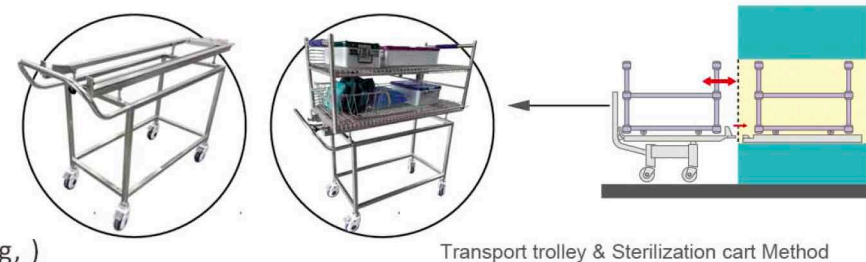
Two way steam supply (Both external steam and build-in steam generator) is upon special request with changing D to S (accord to the chart of symbol explanation) when the order is placing.

Various water softener available

Model / water purifier	ACWS-100	ACWS-300	ACWS-500	ACWS-800	ACWS-1000	ACWS-1500
Volume—liters	100	300	500	800	1000	1500

Delivery contains:

1. Sterilizer installation kit
2. Water softener installation kit
3. Sound-proof air compressor
4. Platforms-304 stainless steel / different model, different size
(single door will be equipped one for loading,)
(double door will be equipped two –Loading & Unloading)
5. Cart-304 stainless steel (Four castors with brakes) / different model, different size
(single door will be equipped one for loading,)
(double door will be equipped two –Loading&Unloading)
6. Baskets-304 stainless steel
(Single door will be equipped with two baskets, more as optional)
(Double door will be equipped with four baskets, two for loading, two for unloading,more as optional)
7. Basic starting material
(e.g. 10 Printing paper, 10 packages B&D test, High Temp stickers)



Pulse Vacuum Sterilizer

For health Be credible

AST- H series
Automatic Electric Sliding Vertical Door



Acota

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