



## AUTOCLAVES 240 & 360 litres

**Gamme d'autoclaves 240 et 360 litres.**

Modèle	Dimension de la chambre L * I * H mm	Volume	Dimension totale	Spécifications	Poids
.PS-0.24	670x600x600	0.24	870x1166x1780	Porte unique à fermeture manuelle Pas imprimante	600
.PS-0.36	994x600x600	0.36	1200x1166x1780	Porte unique à fermeture manuelle Pas imprimante	670
.US-0.24	670x600x600	0.24	870x1166x1780	Porte unique à fermeture manuelle Contrôleur logique PLC + imprimante	600
.UX-0.36	994x600x600	0.36	1200x1166x1780	Porte unique à fermeture manuelle Contrôleur logique PLC + imprimante	670
.DWX-0.36	994x600x600	0.36	1256x1235x1780	Porte unique à fermeture automatisée – Contrôleur logique PLC + imprimante Pulse Vacuum	690

Alimentation 3 \* 380 V





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This series is the **super-class sterilizer** in fully accordance with **GMP regulations**, and meets all designing and manufacturing standards. It can be widely used in hospitals, pharmaceutical companies, biological projects where high standard of sterilization quality is required for materials such as medical instruments, utensils, sterile clothes, medical dressings, biological products and etc.

This series is suitable to those of temperature-resistance and humidity-resistance, and able to do its function thoroughly within a short period with multi-kinds of programs for various requirements on sterilization.

- Fabric program: mainly suitable for sterile clothes and dressings.
- Apparatus program: suitable for steel-made medical surgery instruments, tools, utensils, ..etc.
- Liquid program: for the kinds of liquids.
- B-D testing program: for the purpose of B-D testing and identifying whether the sterilizer works

### 1. Structure characteristics

Comprised of the main body, airproof door, the pipeline system, control system, decorating cover etc.

- 1) The main body is a horizontal square frame structure of two layers welded one time with strengthening supporters between the two layers.
- 2) The airproof door is motorized up and down, and sealed with compressed air.(for the .DWX-0.36)
- 3) The pipeline system consists of control valves, vacuum pump, condenser and pipelines. Valves are angle-seat pneumatic and elect-magnetic ones. The water circulation vacuum pump is a direct-connected form, mechanized-airproof, no water leakage, no shake and a low noise.
- 4) Programmable controller PLC is adopted as the automatic main controller. A touch screen is as the interface between the operator and the equipment. These together with the pressure controller and other components compose a complete auto-control system.
- 5) Loading vehicles and transporting vehicle are available, which are all made of stainless steel.
- 6) Striped stainless steel decorating cover is equipped, which is nice and easy to be cleaned.

### 2. Functioning characteristics

- 1) The main body of two-layer rectangular frame structure In accordance with the international quality standard, the main body is made of advanced anti-erosion SUS 304 stainless steel, polished mechanically and chemically, meeting the US FDA standard, GMP requirements, the European IDF standard as well. With a new welding and molding technique, strengthened by advanced Q235 carbon steel supporters between the two layers, designed and manufactured by strict production and supervising technique, the main body can stand a high pressure and its quality is much improved.
- 2) The airproof door of safety, reliability and easy-manipulation (for the .DWX-0.36)  
The airproof door is driven up and down electrically, sealed pneumatically and locked by several interlock devices. It can't be driven up and down until the gears engaged with the rack on the main body. Within the double-door one, the clean room and the sterile room can be separated to avoid cross-contamination. The program can't start until the door is closed. When there is pressure in the chamber, the airproof door can't be opened so as to protect the operator and the equipment. For the same reason, the airproof door is locked and can't be opened as soon as the program starts.



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### 3) Water circulation vacuum pump

Over 99% air in the chamber is exhausted by mechanized vacuum pulses, simultaneously steam enters to ensure a thorough sterilization. After the program, the chamber is vacuumed, and dried through the interlayer, also the material in is rapidly dried.

### 4) A reliable auto-control by PLC, a convenient and visual operation interface of a touch screen between the operator and the equipment

The working flow and the parameters of temperature, pressure and time during the sterilization course are displayed dynamically. Parameter revisal can also be carried on according to actual circumstance. Special program assembly and easy manual operation can be performed on relative requirements as well.

A tiny printer is provided to record parameters throughout the course for future reference.

### 5) Components of famous world brand are adopted as the main controllers to ensure the advanced performance and reliability

The angle-seat pneumatic valves imported from GEMU Germany are equipped on this series, which does 4 million times performance without malfunction. There are also those as PLC from SIMENS Germany, water circulation vacuum pump from NASHELMO the U.S, pressure transformer from WIKE Germany.

### 6) The filter is a kind of special air filter with a precision of 0.22 $\mu$ m, enabling a thorough solution to the issue of air contamination after sterilization.

### 7) Advanced temperature protection materials are used to ensure a minimum of heat radiation so as to create a good working condition.

### 8) The remained steam in the interlayer and in the chamber is exhausted as condensed water without pollution to the environment.

### 9) Standardized GMP validation inlets are available on the sterilizer for that purpose at spot with regard to customer's requirements.



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### 3. Configuration list of the main components

No.	Name	Model	Technical directions
1	The main body	XG1.DM.01	A first class pressure container. The inside layer is 304 stainless steel polished mechanically and then electrically, the out is carbon steel plate
2	The airproof door	XG1.DM.03	Made of 304 stainless steel, moved up and down electrically and sealed pneumatically, equipped with pressure security interlock devices and manual door opening devices
	Door-driving system	90YYT series	One-phase power supply with over-current protection, a reliable function, high temperature resistance
	Door control switch	WLCA12-TH	A reliable function, high temperature resistance and durable
3	Control system	XG1.DM.09	Controlled by PLC, with random data printing
	The chief control system	CPU226	With a multitude of functions, advanced capability and a high reliability
	Touch screen	PWS1711	Easy to be controlled and operated with working parameters displayed
	Sterilization program software	STEP Micro/DOS	Special requirements from the customers can be fulfilled by more forms of programs
	Tiny printer	WH4008A/T	Durable, clearly printing parameters of the concerning pressure, temperature, and time
	Pressure transducer	ECO-1	A steady output, high precision and reliability
	Pressure controller	ISG110-030	A steady output, high precision and reliability
	Temperature transducer	Pt 100	A steady performance and a high precision
4	Pipeline system	XG1.DM.04	Pipes of carbon steel plated with zinc
	Angle-seat pneumatic valve	554 series	Highly sensitive valve of remote control pneumatically, without malfunction
	Vacuum pump of direct connection	2BV series	A steady with a low noise, high reliability and without water leakage
	Air filter	CHL0.2	A supper class filter with a precision of 100 percent
	Hydrophobic valve	BPT series	Intelligent with an automatic performance
5	Temperature protection cover	XG1.DM.08	Made of processed carbon steel with a perfect function
6	Loading vehicle	XG1.DM.05	A stainless steel frame structure
7	Transporting vehicle	XG1.DM.06	Made of carbon steel, strong and durable, easy to be moved
8	Decorating side cover	XG1.DM.07	Made of stripped stainless steel or processed carbon steel, easy for cleaning
8	Temperature protection cover	XG2.08	Made of striped stainless steel, bright and easy to be cleaned