



Pulse Vacuum Autoclave

Mechanical-door



WG series pulsating vacuum sterilizers use saturated steam as the sterilizing medium, by relying on the physical property that the saturated steam can release a large amount of latent heat and moisture during condensation, it renders items to be sterilized in a highly heated and humid state. After a period of heat preservation, the purpose of sterilization is achieved. The effect of cold air on temperature is eliminated by means of pulsating vacuum exhaust, finally the items drying is realized by the vacuum dehumidification combined with jacket.

WG series pulsating vacuum sterilizers are mainly used in central sterile supply department, third-party disinfecting supply centers, and operating rooms, where medical devices, dressings, rubber, lumen devices, implantable devices, and liquids are sterilized.

Structure and Characteristic of the Equipment

Body of the sterilizer: ◎ Designing, manufacturing and inspection are performed according to GB/T 150 "Pressure Vessel", GB 8599 "Technical Requirements for Large Steam Sterilizer Automatic Control Type" and TSG 21-2016 "Stationary Pressure Vessel Safety Technical Supervision Regulations".

- ◎ The main structure is of a rectangular cross section with European ring-type jacket with reinforcing ribs. The doors are pneumatically sealed, and the two doors are interlocked, which fully meets the specific requirements.
- ◎ The materials that come into contact with steam such as the interior liner and door panels are all S30408 stainless steel, with a designed service life up to 10 years and 20,000 sterilization cycles (316L stainless steel is the optional material with designed service life of 15 years and 30,000 sterilization cycles). The gear rack and the teeth are made of S30408 stainless steel, and the jacket is made of high-quality Q245R material specific for pressure vessels, with S30408 optional.
- ◎ With standard GMP authentication interface.

Piping System: ◎ 304 stainless steel sanitary pipes, with clamp joints. Adopting GEMU angle seat pneumatic valves imported from Germany, solenoid valves supplied by Taiwan AirTAC and directly connected water ring vacuum pump imported from German SPECK.

- ◎ (Optional) Smart automatic drainage system, water-conservative noise reduction system and pipeline insulation treatment.

Controlling System: ◎ Adopting imported Siemens PLC and colorful touch screens on the operator's side; the printer prints the process data of each stage in real time manner; with a variety of safety and alarming systems.

- ◎ (Optional) Equipped with a communication interface connected with the quality tracing system of the disinfecting supply center. Intelligent maintenance system, with remote monitoring and maintenance modules.
- ◎ Double pulsation processes more thoroughly remove the interior air, improving fatigue life of equipment, with excellent drying performance.





Main Parameters and Utilities

Designed Pressure of Inner Chamber	-0.1 ~ 0.3MPa	Opening Pressure for Inner Chamber's Safety Valve	0.28MPa
Designed Pressure of Jacket	0.3MPa	Opening Pressure for Jacket's Safety Valve	0.28MPa
Designed Temperature	150°C	Precision of Sterilization Temperature Control	0~2°C
Maximum Working Temperature	138°C	Temperature Uniformity	± 1°C
Maximum Working Pressure	0.25MPa	Negative Pressure Pulsation Vacuum Amplitude and Times	Amplitude -80~0KPa, Times 1~99
Vacuum Leakage Rate	≤0.13KPa/min	Times of Pulses Across Pressure	Amplitude -80~80KPa, Times 1
Ultimate Vacuum	-96KPa	Times of Positive Pressure Pulses	1 ~ 3

Size & Utilities

Model	Size of Liner		Volume (m ³)	Overall Size L × W × H(mm)	Weight (Kg)	Steam Consumption (Kg/C)	Tap Water Consumption (Kg/C)	Power Supply	Power
	W × H(mm)	Depth(mm)							
WG-0.25JS(F)	550 × 550	845	250	1150 × 1310 × 1880	750	18	120	380V, 50HZ	2KW + ②④KW
WG-0.36JS(F)	610 × 610	1000	360	1320 × 1350 × 1930	850	22	180	380V, 50HZ	2KW + ②④KW
WG-0.6JS(F)	610 × 910	1150	600	1470 × 1410 × 2100	1250	35	320	380V, 50HZ	3KW + ③⑥KW
WG-0.8JS(F)	610 × 910	1490	800	1820 × 1410 × 2100	1350	47	400	380V, 50HZ	3.5KW + ④⑧KW
WG-1.0JS(F)	610 × 910	1815	1000	2150 × 1410 × 2100	1550	55	500	380V, 50HZ	3.5KW + ④⑧KW
WG-1.2JS(F)	680 × 1180	1500	1200	1820 × 1490 × 2050	1650	65	600	380V, 50HZ	3.5KW + ⑦②KW
WG-1.5JS	680 × 1180	1900	1500	2220 × 1490 × 2050	1850	80	750	380V, 50HZ	4 KW
WG-2.0JS	900 × 1380	1650	2000	1980 × 1750 × 2160	2300	106	1000	380V, 50HZ	4.5KW
WG-2.5JS	900 × 1392	2000	2500	2350 × 1750 × 2160	2700	132	1250	380V, 50HZ	6KW
WG-3.0JS	900 × 1380	2494	3000	2830 × 1860 × 2160	3500	160	1500	380V, 50HZ	8KW
WG-4.0JS	900 × 1380	3250	4000	3580 × 1860 × 2160	4500	215	2000	380V, 50HZ	8KW

Note: ②④⑧⑦② represent the power of the built-in steam generator (optional)