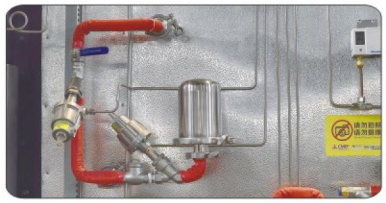
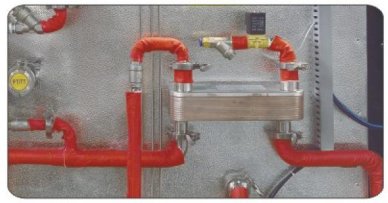
Pulse Vacuum Autoclave

Lifting–door





WG series pulsating vacuum sterilizer uses saturated steam as the sterilization medium, which would completely penetrate into the surface of the articles through pulsating vacuum, and all the microorganisms and their spores would be killed by it under high pressure. It is the most reliable and effective method in physical sterilization. Pulsating vacuum exhaust eliminates the influence of cold air on temperature, finally the sterilizing articles are dried by vacuum dehumidification combined with jacket.
WG series pulsating vacuum sterilizer can be widely used in pharmaceutical, bioengineering, medical health, scientific research and other fields. It is applied to sterilizing the articles with high grade requirements, such as sterile clothes, medical cages, tools, instruments, rubber, liquid, medical dressing and so on.

Structure and Characteristic of the Equipment

◎ The Lifting door structure with removable–racks is motor chain driven with anti–pinch function, which guarantees more operation and installation space, is convenient for the loading and unloading for the articles.
◎ The two lifting doors are with pressure safety interlock, the liquid program is specially with temperature safety interlock. The two doors are interlocked.
◎ The inflation pressure drives the sealing ring to realize automatic sealing. The new high–quality high tear resistant silicone rubber circular hollow sealing ring has a special coating treatment on the surface, which is wear–resistant and smooth. It has better sealing effect and longer service life, with a service life of up to 1500 cycles.
◎ The main rectangular structure is with European ring type jacket with reinforcing ribs. The sealing groove is directly welded on the annular jacket at both ends (Getinge structure).
◎ Control system: Siemens PLC and color touch screen, the whole process is automatically controlled by program, and the operating process status, temperature, pressure, time and other parameters are automatically displayed.
◎ It is equipped with sterilization procedures such as sterile clothes, tools and instruments, rubber, liquid, culture medium, waste and custom procedures, as well as BD test, vacuum leakage test and other test procedures.
◎ The printer is optional, and it supports real–time data printing during the full process.
◎ Independent steam inlet design is optional for the customer, the steam would not pass through the jacket to avoid the pollution from the carton steel, and prevent the drying effected frm the jacket pressure drops.
◎ Pipeline system: stainless steel sanitary pipeline with clamp joints, are all welded by automatic pipe welder. German GEMUE angle seat valve, Taiwan Airtac solenoid valve, German SPECK direct–connected water ring vacuum pump.
◎ Water saving and noise reduction system (optional): Can reduce the circulating water consumption of vacuum pump by 30% and reduce the noise of vacuum pump.
◎ Automatic drain device (optional): Jacket automatic control drain device and inner chamber are equipped with automatic control drain device to automatically detect the temperature and pressure of jacket and inner chamber to drain automatically to ensure the saturation of steam.
◎ Low–temperature exhausting function (optional): drainage temperature ≤ 55 ℃.
◎ Traceability system (optional): it has a communication interface connected with the quality traceability system of the disinfection supply center, and provides a software communication protocol connected with the traceability system.
◎ Intelligent maintenance system (optional): Equipped with remote monitoring and maintenance module, which can realize remote monitoring and remote software upgrading of equipment operation.

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℃	Precision of Sterilization Temperature Control	0~2℃
Maximum Working Temperature	138℃	Temperature Uniformity	± 1℃
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 (L)	Overall Size L × W × H(mm)	Weight (Kg)	Steam Consumption (Kg/C)	Power Supply	Power
	W × H(mm)	Depth(mm)						
WG−0.15 S(F)	450 × 450	800	150	1160 × 1150 × 1820	550	12	380V, 50HZ	2KW + ㉔KW
WG−0.2 S(F)	450 × 450	1000	200	1360 × 1150 × 1820	750	15	380V, 50HZ	2KW + ㉔KW
WG−0.25 S(F)	550 × 550	845	250	1195 × 1290 × 1900	850	18	380V, 50HZ	2KW + ㉔KW
WG−0.3 S(F)	550 × 550	1000	300	1350 × 1290 × 1900	950	18	380V, 50HZ	2KW + ㉔KW
WG−0.36 S(F)	610 × 610	1000	360	1360 × 1350 × 1940	1050	22	380V, 50HZ	2KW + ㉔KW
WG−0.45 S(F)	652 × 700	1000	450	1360 × 1400 × 2060	1150	30	380V, 50HZ	2KW + ㊱KW
WG−0.6 S(F)	652 × 700	1320	600	1675 × 1400 × 2060	1250	36	380V, 50HZ	2KW + ㊱KW
WG−0.8 S(F)	652 × 700	1750	800	2105 × 1400 × 2060	1450	45	380V, 50HZ	2KW + ㊽KW

Note: ㉔ ㊱ ㊽ represent the power of the built−in steam generator (optional)