

GW Series Horizontal Autoclave

Outstanding Features

5 levels of use authority management

Automatic lid

Pulse vacuum with world's first class pump

Vacuum drying Function

Water cooling

Super fast sterilization, one hour complete for solid mode

Can be updated to 316L material



Modern Techniques

Automatic Door

Just push the chamber door gently, the system will lock automatically, click the open button, and the chamber door will open automatically

Air filtration

Equipped with imported air filter, the filtering effect can reach 0.1um level, and the performance is much better than the traditional 0.2um level, so as to ensure that the clean gas enters the cavity

Rapid cooling system

After sterilization, the coil type jacket is filled with cold water, and the rapid cooling system is started to speed up the cooling process, especially suitable for cooling after sterilization of liquid culture medium

Pulse pre vacuum+ vacuum drying

Use the world's first class vacuum pump to ensure good pre vacuum effect and fast vacuum drying speed

PLC industrial control system

Professional industrial control system, with high stability, realizes full-automatic dynamic control of sterilization process, and can be easily maintained, queried, verified, recorded, expanded and upgraded

Independent steam generator

It adopts high-power three-way heating device to automatically generate steam to supply the chamber of sterilizer, and has the functions of automatic control of water inflow, heating, dry burning prevention, overpressure prevention, etc

Six stage steam exhausting

Six different exhaust speeds can be selected after sterilization to speed up the cooling process and prevent overheating

Zero steam discharge, drainage temperature can be set

Provide large capacity water tank, which can set the temperature of sterilization water discharge

LCD touch screen

Multilingual LCD touch screen, dynamic display of various states by means of text, data and diagram, convenient man-machine dialogue and editing operation steps by means of touch control

L upgraded (optional)

Chamber material can be upgraded to SUS316L

Safety Devices:

- 1.Safer door locking way**
The door locking device is more evenly stressed and safer than the traditional door locking device
- 2.Automatic door-lock**
Only can be started when the chamber door is locked. When the temperature and pressure are in an unsafe state, the door cannot be opened.
- 3.New water level monitoring system**
Automatic detection of water level, automatic water replenishment in case of water shortage, no requirement for lower limit of conductivity, suitable for users with pure water pipeline, superior to traditional conductivity type water level electrode detection way
- 4.Administration**
The instrument needs a key for power on, which is convenient for good control of the instrument
- 5.Emergency stop switch**
In case of abnormality, the machine can be shut down in an emergency to deal with the abnormality
- 6.Over voltage double protection**
Equipped with mechanical safety valve and electronic overpressure protection system, once the pressure is abnormal, the pressure can be released, power off and send alarm
- 7.Automatic fault detection system**
The system monitors the operation status in real time. In case of any abnormality, it will cut off the power supply and give an alarm, and display the fault information at the same time
- 8.Temperature monitoring**
The system monitors the temperature change in the sterilization chamber in real time. Once the temperature is too high or the temperature rises abnormally, the power is cut off immediately for protection
- 9.Electrical protection**
Adopt high sensitive electrical protection system to effectively provide leakage, over-current and short-circuit protection
- 10.Multiple monitoring system**
Multiple pressure and temperature sensors to detect the temperature and pressure of different parts
- 11.Five level authority management**
The operation authority of the instrument is divided into five levels, each level of user has an independent password, the operator can assign 20 IDS, and each level of user is limited in different use authority

Technical Specification

Model	GWA180DQ	GWA280DQ
Capacity(L)	180	280
Dimension(LxWxH)(mm)	800x1450x1500	
Chamber dimension(mm)	Φ500x1000	Φ600x1000
Net weight	650kg	720kg
Power	16KW	
Chamber material	SUS304	
Sterilization temperature	115-135°C	
Rated working pressure	0.25Mpa	
Pressure gauge range	-0.1-0.5Mpa	
Safety valve popping pressure	0.29Mpa	
Sterilization time range	1-6000 minutes	
Drying time range	0-300 minutes	
Pulse times	1-99 times	
Vacuum degree	≤-93kpa	
Vacuum leakage rate	<0.13kpa/minute	
Controller	PLC industrial control system	
Sterilization mode	Fabric, Device, Liquid, B-D test, Vacuum test, Self-defined	
Safety device	Evenly distributed inter locker, auto door lock, water level detection, safety valve, over pressure protection, trouble shooting, electric protection	
Accessory	Stainless steel with wheels(x2), storage plate	
Option	Load thermometer, printer, water supply pressure sensor, trolley,3Q interface, 3Q/4Q calibration	
H models	Material can be updated to SUS316, controller updated to Siemens industrial control system	
Power supply	Three phase five wire system,380V, 50/60HZ,	
Difference between GW-DA and GW-DQ	GWA180DA and GWA180DA is no drying and no water cooling compared to DQ, sterilization mode only Fabric, Device, Liquid mode , the others are same	