



ZEALWAY INSTRUMENT INC.



CE-PED ISO9001 ISO13485

GF SERIES AUTOCLAVE

GR SERIES AUTOCLAVE

GI T SERIES AUTOCLAVE

GI DP SERIES AUTOCLAVE

FD SERIES AUTOCLAVE

GW SERIES HORIZONTAL AUTOCLAVE

Zealway Instrument Inc.

www.zealway.us

Suite 806, 1220N. Market Street Wilmington, DE 19801 USA

US Head Office: usasales@zealway.us

Mainland China Branch Office: sales@zealway.com.cn

Thailand Office: seasales@zealway.us

Australian Branch Office: ausales@zealway.us

China Branch Office, Taiwan: twsales@zealway.us

European Office: eusales@zealway.us

www.zealway.us

Catalog >>>

In this world,
Thousands of laboratory autoclaves are produced
everyday, Only a tiny part of them can satisfy more
demanding requirements:
Safer, easier, more intelligent and more tasteful...
The more requirements are demanded, the greater
missions are given.
ZEALWAY is destined to be the representative of
higher-end products!



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About Zealway >>>

With the belief that scientific and technological progress will benefit mankind, a deep understanding of the sterilization equipment field, and a commitment to technological innovation, Zealway has provided safe, efficient and convenient sterilization solutions to researchers and professionals for more than 20 years. Zealway Instrument Inc is a globally recognized specialist manufacturer of sterilization equipment. Its head office is located in the US state of Delaware, with offices also located in Australia, China, Thailand and elsewhere.

For the last 20 years, Zealway's autoclaves have been recognized by customers around the world for their outstanding performance, and stylish and elegant appearance. To serve its users even better, in 2006 Zealway Instrument Inc entered the Chinese market, where it quickly became a leader in high-end sterilization equipment, with sales spanning different sectors such as medicine, scientific research, government agencies and enterprises.

PRODUCT SPARE PART BRANDS COLLECTION >>>

Why we are unique and worth our price?

ZEALWAY AUTOCLAVE SPARE PARTS' BRANDS >>>

To make sure the excellent quality, ZEALWAY only use the best spare parts for manufacturing Autoclave, below are part of the spare parts and brands:



SIEMENS



PHILIPS



EPSON®



TDK



WIKAI



KNF

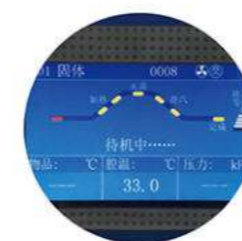


OMRON



GF SERIES AUTOCLAVE

Bigger or smaller, LCD screen, one touch automatic open and close, whatever you desire.....



Big LCD screen to show whole process and data, sterilization state is clear at a glance



Fast cooling: Standard fast cooling fan, to shorten the sterilization process



Front and detachable waste bottle for easy maintenance

Technical Data

Model	GF36DA	GF54DA	GF88DA	GF120DA
	GF36DF	GF54DF	GF88DF	GF120DF
	GF36DR	GF54DR	GF88DR	GF120DR
	GF36DP	GF54DP	GF88DP	GF120DP
	GF36DX	GF54DX	GF88DX	GF120DX
Model difference	1.DA:Standard with cooling fan 2.DF:DA+Automatic water feeding 3.DR:DF+Drying 4.DP:DF+vacuum pump 5.DX:DF+deodorization 6.Option: automatic lid open and close, water cooling,150L chamber			
Capacity(L)	36	54	88	120
Dimension(L*W*H,mm)	460x556x1025	460x556x1025	559x636x1038	659x776x1041
Chamber	φ 325x525	φ 325x725	φ 405x743	φ 508x668
Rate power supply(w)	2300	2600	4600	4600
Stainless steel	(φ 300x200)x2	(φ 300x200)x3	(φ 360x280)x2	(φ 478x250)x2
Power requirement	220V,16A, 50/60HZ		220V,32A, 50/60HZ	
Temperature accuracy	0.1℃			
Working environment	5-45℃, relatively humidity 10%-85%			
Chamber material	SUS 304			
Display system	LCD screen			
Sterilization temperature	105-138℃			
Sterilization time range	1-6000 minutes			
Melting temperature	60-100℃			
Melting time range	1-6000 minutes			
Warming temperature	45-60℃			
Warming time range	1-9999 minutes			
Cooling lock OPEN	40-80℃ for liquid cycle, 40-99℃ for other cycles			
Sterilization cycle	1.Solid cycle 2.Liquid cycle 3.Liquid with warming cycle 4.Agar cycle 5.Solid with drying(for DR) 6. Medical waste cycle 7. Customized cycle			
Sterilization cycle number	Can be save up to 60 cycles, record 1000 pcesses, USB port			
Exhaust mode	Automatic internal discharging , Exhaust speed can be selected by 6 levels			
Opening way	Up and down, One touch open for GFA series			
Preset range of timer	Can be preset and auto start up to 6 days in advance			
Display range of pressure	-0.1-0.5Mpa			
Pressure	Max working pressure:0.27Mpa,design pressure:0.35Mpa			
Steam collector and water tank	embedded 2 steam collector, 9 L water tank (only DF/DR)		embedded 2 steam collector, 28 L water tank (only DF/DR)	
Controller	"Inspiration II" fast speed microcomputer controller			
Safety device	Electric double inner locks, lid closing checking, dry scorch protection, overpressure protection, safety valve, water level sensor, over temperature protection, temperature monitor, over current and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshooting			

Unique opening way, more convenient than traditional vacuum suction way. One touch automatic open and close for GFA series



Press the lid



Inter lock sensor



One touch open

GR SERIES AUTOCLAVE



To meet the requirements of a future lab

GR series intelligent autoclaves-a once-off selection that exempts the worries of continual upgrading

Heavy-gauge sterilization chamber

The heavy gauge sterilization chamber in a diameter of 40cm offers a massive space to satisfy various sterilization requirements.

Microcomputer control system

The latest "inspiration" fast-speed microcomputer intelligent control system is highly robust to not only realize the total-process controls of sterilization, but also enable convenient maintenance, inquiry, calibration, recording and upward scalability in the future. It allows three tiers of administrations, to guarantee satisfactory us and management of the autoclave.

Waste sterilization mode:

Dedicated waste sterilization procedures are established for effective sterilization of lab wastes.

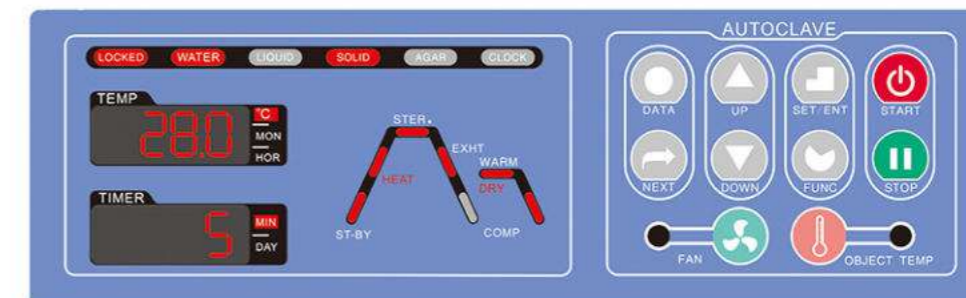
Drying

Thoroughly drying according to the CE standard, on hot sale in the Europe

Cooling lock OPEN temperature

Each procedure can set different cooling lock OPEN temperatures according to the thermal inertia of the sterilization object so as to prevent the user from opening the cover and hence getting burnt when the sterilization object(particularly liquid) is still in an unsafe state.

Simple and easily understandable and operable control panel



Preset Procedures and memory system

Six sterilization procedures and warming procedures are preset for the sterilizing, warming and drying of solids and liquids, the melting and warming of agars. There are up to 60 cycles and be created and saved to be readily used.

Safety

Mechanical interlocking: the unique "eight-column evenly distributed" interlocking device is safer and more reliable than common interlocking devices. The electric double inner locks enable the control system to monitor the temperature and pressure in the sterilization chamber on a real-time basis and disable opening of the sterilization chamber cover until the safe temperature and pressure are reached, hence guarantee the personal safety of the operator.

Technical Data

Model	GR60DA	GR85DA	GR110DA
	GR60DF	GR85DF	GR110DF
	GR60DR	GR85DR	GR110DR
Model difference	DA:Standard, DF:Automatic water feeding+cooling fan, DR: DF+drying		
Capacity(L)	60	85	110
Dimension(L*W*H,mm)	660x644x980(DA)	660x644x980(DA)	660x644x1180(DA)
Chamber dimension(Dia*H,mm)	φ 400x505	φ 400x700	φ 400x895
Rate power supply(w)	2900	4600	4600
Stainless steel basket(Dia*H,mm)	(φ 360x200)x2	(φ 360x280)x2	(φ 360x250)x3
Power requirement	220V,16A, 50/60HZ	220V,32A, 50/60HZ	220V,32A, 50/60HZ
Temperature accuracy	0.1℃		
Working environment	5-45℃, relatively humidity 10%-85%		
Chamber material	SUS 304		
Sterilization temperature	105-138℃		
Sterilization time range	1-6000 minutes		
Melting temperature	60-100℃		
Melting time range	1-6000 minutes		
Warming temperature	45-60℃		
Warming time range	1-9999 minutes		
Drying(only for DR model)	1-300 minutes, drying temperature 80-140℃		
Cooling lock OPEN temperature	40-80℃ for liquid cycle, 40-99℃ for other cycles		
Sterilization cycle	1.Solid cycle 2.Liquid cycle 3.Liquid with warming cycle 4.Agar cycle 5.Solid with drying(for DR) 6. Medical waste cycle 7. Customized cycle		
Sterilization cycle number	DA can save up to 20 cycles, DF/DR can save up to 60 cycles		
Exhaust mode	Automatic internal discharging ,with a steam collecting bottle inside. Exhaust speed can be selected by 6 levels		
Lid opening way	Up and down		
Steam collector and water tank	DA: embedded 2 steam collector, DF: embedded 2 steam collector and 28L water tank DR: embedded steam collector and 28L water tank		
Preset range of timer	Can be preset and auto start up to 6 days in advance		
Display range of pressure gauge	-0.1-0.5Mpa		
Pressure	Max working pressure:0.27Mpa,design pressure:0.35Mpa		
Controller	"Inspiration" fast speed microcomputer controller		
Safety device	"eight column evenly distributed" interlocking device, electric double inner locks, lid closing checking, dry scorch protection, overpressure protection, safety valve, water level sensor, over temperature protection, temperature monitor, over current and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshooting		

GI T SERIES AUTOCLAVE

LCD screen, new generation GI T, continue to save your lab space...



GI T SERIES:

NEW-generation Fully-automatic Autoclave

Microcomputer control system

“SMART III” microcomputer control system is adopted to realized not only intelligent controls of the sterilization process but also the classified management of instruments (user, administrator and engineer three levels included).As a result, we can guarantee satisfactory use and management of autoclaves.

Multilayered pressure protection system

Our patented pressure interlocking device can automatically sense the pressure in the sterilization chamber and tightly locked, which effectively prevent personal injuries caused by spraying steam arising from misoperation.The system can monitor the pressure changes in the sterilization chamber on a real-time basis. Upon detection of any pressure anomaly, the dual overpressure protection system consisting of a safety valve and a pressure protective device will be actuated immediately to relieve pressure or disconnect power supply.

Unique anti-scald design

The cover and bench of the sterilization chamber are made of special plastic to give a nice look and avoid causing corrosions and scald. The unique steam discharge and collection system can help to prevent scald.

Multiple sterilization cycles and memory system

5 sterilization cycles are preset for sterilization, drying, warming of solid and liquid articles and for melting and warming of agar separately.

Temperature and pressure

Sterilization temperature:105 to 135°C,designed pressure:0.3Mpa

Big LCD Screen can clearly show all the sterilization data and process



Over temperature protection system

The system can monitor the temperature changes in the sterilization chamber on a real-time basis and disconnect power supply immediately upon detection of over temperature or abnormal temperature variation.

Automatic troubleshooting system

Troubleshooting is conducted automatically upon startup. Acoustic alarms will be given and Error Number will be displayed on the screen if any trouble occurs during equipment operation.

Safety and Function

Self-induction pressure interlocking device, lid closing checking, over temperature protection, temperature monitor, dry scorch protection system, over pressure protection, safety valve, over current and short circuit protection, leakage protection device, anti-scald safety protection, automatic troubleshooting system

Technical Data

Model	GI36TW	GI54TW	GI80TW	GI100TW
	GI36TR	GI54TR	GI80TR	GI100TR
Model difference	TW: Standard		TR: TW+ drying	
Capacity(L)	36	54	80	100
Dimension(L*W*H,mm)	460x542x1070	460x542x1070	620x680x1100	620x680x1200
Chamber dimension(Dia*H,mm)	φ 325x460	φ 325x670	φ 400x709	φ 400x809
Chamber material	SUS 304			
Rate power supply(w)	2300	2600	4600	4600
Power requirement	220V,16A, 50/60HZ		220V,32A, 50/60HZ	
Working environment	5-45°C, relatively humidity 10%-85%			
Stainless steel basket(Dia*H,mm)	(φ 300x200)x2	(φ 300x200)x3	(φ 360x280)x2	(φ 360x220)x3
Temperature accuracy	0.1°C			
Working environment	5-45°C, relatively humidity 10%-85%			
Display system	LCD displayer			
Sterilization temperature	105-135°C			
Sterilization time range	1-6000 minutes			
Melting temperature	60-100°C			
Melting time	1-6000 minutes			
Warming temperature	45-60°C			
Warming time range	1-9999 minutes			
Drying temperature(TR)	Drying time range 1-300 minutes, drying temperature:80-140°C			
Sterilization cycle	1.Solid cycle 2.Liquid cycle 3.Liquid with warming cycle 4.Agar cycle 5.Solid with drying(for TR) 6. Customized cycle			
Sterilization cycle number	Can save up to 60 cycles, record 1000 process, and USB port			
Exhaust	Automatic internal discharging, with a steam collecting bottle inside. Exhaust speed can be selected by 6 levels			
Preset range of timer	Can be preset and auto start up to 6 days in advance			
Display range of pressure gauge	-0.1-0.5Mpa			
Pressure	Max working pressure:0.25Mpa,design pressure:0.3Mpa			
Controller	“Smart III” fast speed microcomputer controller			
Safety device	Self-induction pressure interlocking device, lid closing checking, over temperature protection, temperature monitor, dry scorch protection system, over pressure protection,safety valve,over current and short circuit protection, leakage protection device,anti-scald safety protection, automatic troubleshooting system			

GI DP SERIES AUTOCLAVE

Yes, this is the vacuum pump series you are looking for!



Original imported vacuum pump, effectively eliminate cold air, eliminate dead angle, especially suitable for sterilization of pipes, bends, thin tubes and other objects.

It can provide two ways of exhausting cold air, vacuum pump and downward discharge. It is not only suitable for sterilization of solid and waste, but also suitable for sterilization of liquid medium.

Products are not only suitable for laboratory use, but also widely used in epidemic prevention, cosmetology, obstetrics, ophthalmology and other specialized hospitals for comprehensive sterilization.

Automatic water feeding function: embedded with 18L water tank, can absorb the steam while the temperature is rising, and can supply the chamber with water, free from frequent water inconvenience.

Vacuum drying: automatic vacuum drying, 100% dry

Technical Data

Model	GI36DP	GI54DP	GI80DP	GI100DP
Capacity(L)	36	54	80	100
Dimension(L*W*H,mm)	460x542x1070	460x542x1070	620x680x1100	620x680x1200
Chamber dimension(Dia*H,mm)	φ 325x525	φ 325x725	φ 400x709	φ 400x809
Chamber material	SUS 304			
Rate power supply(w)	2300	2600	4600	4600
Power requirement	220V,16A, 50/60HZ		220V,32A, 50/60HZ	
Working environment	5-45℃ , relatively humidity 10%-85%			

Stainless steel basket(Dia*H,mm)	φ 300x200)x2	(φ 300x200)x3	(φ 360x280)x2	(φ 360x220)x3
Temperature accuracy	0.1℃			
Working environment	5-45℃, relatively humidity 10%-85%			
Display system	LCD displayer			
Sterilization temperature	105-135℃			
Sterilization time range	1-6000 minutes			
Melting temperature	60-100℃			
Melting time	1-6000 minutes			
Warming temperature	45-60℃			
Display system	LCD displayer			
Sterilization temperature	105-135℃			
Sterilization time range	1-6000 minutes			
Melting temperature	60-100℃			
Melting time	1-6000 minutes			
Warming temperature	45-60℃			
Warming time range	1-9999 minutes			
Sterilization cycle	1.Solid cycle 2.Liquid cycle 3.Liquid with warming cycle 4.Agar cycle 5.Solid with drying(option) 6. Customized cycle			
Sterilization cycle number	Can save up to 60 cycles, record 500 processes, USB port			
Exhaust	Automatic internal discharging, Exhaust speed can be selected by 6 levels			
Preset range of timer	Can be preset and auto start up to 6 days in advance			
Display range of pressure gauge	-0.1-0.5Mpa			
Pressure	Max working pressure:0.25Mpa,design pressure:0.3Mpa			
Controller	"Smart IV" fast speed microcomputer controller			
Safety device	Self-induction pressure interlocking device, lid closing checking, over temperature protection, temperature monitor, dry scorch protection system, over pressure protection,safety valve,over current and short circuit protection, leakage protection device,anti-scald safety protection, automatic troubleshooting system			
Automatic water feeding(optional)	1. External water source added with a water pump 2. 28L water tank inside			
Drying(optional)	1.Drying by heating, 1-300 minutes, drying temperature 80-140℃ 2.Drying by vacuum pump			



Main Feature:

- Microcomputer control system
- Sterilization process can be pre-set and completed automatically
- Solid mode, liquid mode
- Simple and easily understandable control panel to show the sterilization temperature, sterilization time and drying time at the same time, pressing separate keys to set the temperature and time makes the operation easier
- System automatically monitors the discharging of the cold air to guarantee a pure steam sterilization environment and optimal sterilization effects
- LED screen clearly shows the dynamic sterilization process
- 13 error detection procedures to monitor the normal operation of the instrument

Safety Devices:

- Self-induction interlocking devices to avoid risk of misuse
- Dual overpressure protection system: upon detection of any abnormal pressure, system will relieve pressures or disconnect power supplies
- Over temperature protection system: power supply will be disconnected for protection upon detection of over temperature
- Dry scorch protection system: power supply will be disconnected for protection upon detection of overflow water level
- Cover checking system: system can automatically check the locking of the cover, if the cover is not tightly locked, the autoclave can't be started
- Electric leakage, over current and short circuit protection: system will disconnect the power supply to avoid an electricity shock or other accidents
- Unique anti-scald cover and bench: nice look and avoid causing corrosions and scald

Simple and easily understandable control panel



Technical Data

Model	FD36A	FD50A	FD80A	FD100A
	FD36R	FD50R	FD80R	FD100R
Model difference	Model A:Standard		Model R:A+drying	
Capacity(L)	36	50	80	100

Outer dimension(L*W*H,mm)	460x542x960	460x542x1070	620x680x1042	620x680x1222
Sterilization chamber (Dia*mm)	φ325x460	φ325x670	Φ400x709	φ325x889
Rated power supply	220V 50Hz/60Hz			
Rated power(W)	2300	2600	4600	4600
Working environment	5℃-40℃, relative humidity 10%-85%			
Chamber material	SUS 304 stainless steel			
Sterilization temperature	105-135℃			
Stainless steel basket(Dia*H,mm)	(φ 300x200)x2	(φ 300x200)x3	(φ 360x280)x2	(φ 360x220)x3
Sterilization time range	1-300 min			
Drying time range	1-300 min(drying function only for R series)			
Range of pressure gauge	0-0.4Mpa			
Controller	Microcomputer control system			
Mode	Solid mode, liquid mode			
Safety Device	Self-induction interlocking device, lid closing checking, over temperature protection system, dry scorch protection, over pressure protection, safety valve, over current and short circuit protection, cover checking system, electric leakage protection, scald protection, automatic failure-inspection system			
Standard accessories	Stainless steel baskets, waste bottle, water plate, drainage hose			
Optional parts	Printer, printing set, stainless steel pails			

OTHER OPTIONAL&USEFUL SPARE PARTS FOR YOU TO CHOOSE Suitable for most series



Micro Printer



Temperature sensor



Stainless steel with a flat bottom



Stainless steel pail



Load thermometer (liquid temperature sensor)



3Q calibration joints

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	