

DW-GR Food Autoclave

Smart

- **F0 value caculation**

F0 value is automatic caculated, can print out by micro-printer

- **Couter pressure(Q)**

Balance the pressure between inside and outside of the packages.

Ensures the bags/cans/containers do not get deformed, broken or bursted,and liquid not overflow.

- **Saturated steam monitering**

The system automatically monitors the purge out of cold air to ensure the pure steam environment

- **5 level access permission**

The operation permissions for instruments are divided into five levels,with each level of user having an independent password and multiple IDs that can be assigned.Each level of user has limited access to certain usage permissions

- **Colorful LCD screen**

LCD screen with English and Chinese choice,using text, data,and graphical methods to dynamically display various statuses,the sterilization process is clear at a glance

- **Counter pressure+spraying(QL)**

On the basis of the counter pressure function, adding spray cooling can achieve rapid cooling

- **Program memory storage system**

User can set their own program,and saved in system.

- **Auto start up appointment**

Can make an appointment in 0-15 days

- **Automatic water feeding(Only for DF,DR)**

The instrument is backed with a 28L tank,which automatically add water to the chamber before sterilization.

By this way,machine can be moved freely in the room,no need to connect to a water tap.But water tap/pipe supply is also an option(need to added in factory)

- **Auto drainage(option)/Auto cleaning(only for DF/DR)**

Added with a water pump,press the drainage button to start drainage,or set it to timed automatic drainage.

Automatic cleaning can be set to regular cleaning or cleaning after each

- **Fully automatic drying(Only for DR)**

Can set drying temp.and drying time.After sterilization, water will be drained out automatically,then an inbuilt pump will supply clean air into the chamber through an air filter.Filtration is higher than 99.99%in particle with diameter of 0.2 μm.

- **Condenser(Option)**

Equipped with a professional condenser,the steam generated during the sterilization process is converted into water through the condenser,achieving zero discharge of water vapor/mist.

- **APP Smart management system(Option)**

Remote management APP(only in China)

Smart management system:linked with LIMIS/SCADA system(only in China)

- **Agar melting function**

Can heat up,melt,warm the agar or used as chamber preheating function

- **Waste program**

Special waste program,to sterilize the waste thoroughly

- **Just right depth**

Conforming to ergonomics,the chamber depths of 60/85 chamber are 505/700(mm), making it easy to take and place samples and maintain the instrument.

110L is standard with a hook to help take out water plate and baskets.

- **Fast cooling(standard for every model)**

Standard with fast cooling fan to shorten the whole cycle.



Safety Features

Humanized design: The lid and bench corners are covered with insulation to avoid getting scald

Interlocking device: The exclusive patented "eight column evenly distributed" interlock device is safer and more reliable than ordinary interlocking devices

Lid closing checking: Machine can not start if lid is not locking well by checking mechanically and electrically

Real time monitor: System will monitor the lid locking, pressure and temperature status on a real time basis to guarantee the safe and successful work of the autoclave

Cooling lock OPEN temperature: Each program can set different lid OPEN temperatures, especially for liquid program, so as to prevent user from opening lid and causing burns when the articles are still in a high temperature state

Triple protection for lack of water: The bottom of the sterilization chamber is equipped with three different dry burning protection devices: liquid expansion type, copper temperature sensing type, and electric type (water level sensor), to avoid misjudgment caused by a single method

Double protection for over pressure: Mechanical pressure gauge and electric sensing system, once pressure is abnormal, system will cut power, release the pressure and send out alarm

Auto trouble shooting: System will monitor the working status, and will cut the power, send out alarm, and report the error information once any abnormal situation detected

Safety test function: Regular testing of system security and safety protection measures is possible

Electrical protection: Equipped with a highly sensitive electrical protection system, effectively providing leakage protection, overcurrent and short-circuit protection



Fast cooling fan

Standard with fast cooling fan to shorten the whole



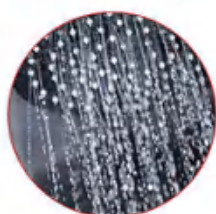
One hand open/close

Exclusive patented technology interlocking



Air compressor for counter pressure

Equipped with an air compressor, can supply the pressed air quickly to balance the air inside the chamber, so as to prevent the bag and cans from



Spraying system

Water spray to cool the articles rapidly



Load thermometer/Floating PT100 sensor

Top mounted floating TP100 sensor
The sensor can be put into samples to detect.



Exhaust Level 6

6 level of exhaust speed control

After sterilization, you can choose different exhaust speed, and you can adjust freely during the exhaust process.



Driller

Standardized with driller to drill the cans and other metal or steel containers



Specifications

Model	Counter(Q)	Standard DW-GR60DAQ/QL	Standard DW-GR85DAQ/QL	Standard DW-GR110DAQ/QL
	Counter+ Spray(QL)	Auto water fill DW-GR60DFQ/QL	Auto water fill DW-GR85DFQ/QL	Auto water fill DW-GR110DFQ/QL
		Auto drying DW-GR60DRQ/QL	Auto drying DW-GR85DRQ/QL	Auto drying DW-GR110DRQ/QL
Capacity(L)		60	85	110
Dimension(L*W*H)(mm)		DA:644×660x980	DA:644x660x980	DA:644x660x1180
		DF/DR:644x831x980	DF/DR:644x831x980	DF/DR:644x831x1180
Chamber dimension(Dia*H)(mm)		φ400x505	φ400x700	φ400x895
SUS 304 Basket(Dia*H)(mm)(Note 1)		(Φ370x190)x2	(Φ370x280)x2	(Φ370x250)x3
Rated power(W)		2900	4600	4600
Power requirement		220V±10%16A; 50HZ/60HZ	220V±10%32A; 50HZ/60HZ	
Temperature display accuracy		0.1℃		
Working environment		5℃~40℃ relative humidity≤85%		
Chamber material		SUS304 stainless steel(option for 316L material)		
Sterilization temp.range		45℃~138℃		
Sterilization time range		1~6000 min		
Spraying temp.range		30℃~138℃		
Melting temp.range		60℃~115℃		
Melting time		1~6000 min		
Warming temp.		45℃~79℃		
Warming time		1~9999 min		
Drying(only for DR)		Drying time:1~300min Drying temp.:80~160℃		
Cooling lock OPEN temp.range		40℃~99℃ for solid,waste,agar,self-defined,40℃~80℃(note 2)for liquid		
Sterilization mode		Liquid,liquid with warming,solid,wrapped instrument,fabric,rubber,fast,waste,agar, self-defined,pressure,counter pressure+sparying		
Program number saved		60 programs		
Exhaust speed control		60 Fully automatic internal discharging with 6 levels choice		
Lid open way		Flip open(up and down)		
Water tank		DA:2 water tanks to collect steam DF:1 water storage tank more than DA DR:1 water tank to collect steam+1 water storage tank(note 3)		
Appointment timer range		(Auto start up appointment)0 ~ 15 days		
Pressure gauge range		-0.1~0.5MPa		
Counter pressure		20~200kPa		
Pressure valve set pressure		0.29 Mpa		
Controller		"Inspiration"smart microcomputer controller		
Safety Device		"Eight column evenly distributed"interlock device,electric double inter lock, lid closing checking,dry scorch protection,,safety valve, water level sensor, over temperature/pressure protection,temperature/pressure monitor, electricity safety(over current/short circuit/leakage), cooling lock,anti-scald lid and bench corner,automatic troubleshooting		

Note 1:Baskets can also be customized

Note 2:Cooling lock OPEN temp.is related to local boiling point

Note3:Optional sewer drainage for DR while manufacturing

Spare part option



Tray



Stainless steel bucket



IQ/OQ/PQ (3Q)adapter joint



Adjust foot



Micro printer
To print temp.,time
and F0 value

IQ/OQ/PQ documents
USB: to transfer the data by USB
LCD: change display screen from LED to LCD