Technical Specification

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Model	Standard GR60DA	Standard GR85DA	Standard GR110DA
	Auto drying GR60DR	Auto drying GR85DR	Auto drying GR110DR
Capacity(L)	60	85	110
Dimension(L*W*H)(mm)	DA: 644x660x980	DA: 644x660x980	DA: 644x660x980
	DR: 644x831x980	DR: 644x831x980	DR: 644x831x1180
Chamber dimension(Dia*H)(mm)	Ф390х505	Ф390х700	Ф390х895
Rated power(W)	2900	4600 (2900 as option)	4600
SUS 304 Basket(Dia*H)(mm)(Note 1)	(Φ 370x190) x2	(Φ 370x280) x2	(Φ 370x250) x3
Power requirement	220V±10% 16A 50HZ/60HZ	220V±10% 32A 50HZ/60HZ	220V±10% 32A 50HZ/60HZ
Temperature display accuracy	0.1℃		
Working environment	5°C~40°C relative humidity ≤85%		
Chamber material	SUS304 stainless steel		
Sterilization temp. range	105°C~138°C		
Sterilization time range	1~6000 min(Set by user defined mode,other mode can be set up to 480min)		
Warming temp	45°C-79°C		
Warming time	1~9999 min		
Drying(only for DR)	Drying time: 1~300 min Drying temp: 80~160°C		
Cooling lock OPEN temp. range	40°C ~ 99°C for solid,waste,agar,self-defined 40°C~80°C(note 2)for liquid		
Sterilization mode	Liquid, Liquid with warming, solid, Wrapped instrument, Fabric, Rubber, Fast, Waste, Self-defined		
Program number saved	DA:20 programs DR:60 programs		
Exhaust speed control	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 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		
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		
Biosafety function	Option for 0.2um biosafety filter (basic model+S)		

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



Micro printer To print temp.,time and F0 value





Adjust foot



Digital pressure sensor



Stainless steel bucket



Printing set:printer+digital pressure sensor:can print temp, and pressure in data and flow chart way



Load thermometer (Floating PT100 sensor)



IQ/OQ/PQ (3Q)adapter joint

IQ/OQ/PQ documents

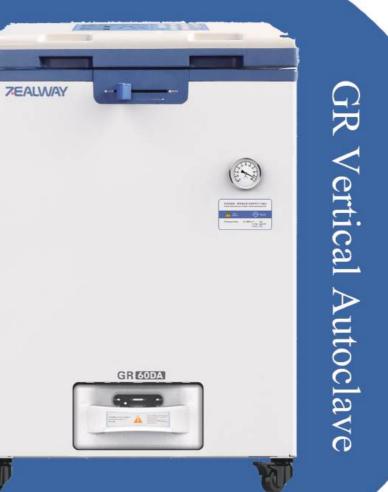
Zealway(Xaimen)Instrument Inc.

Youtube: Zealway autoclave

Add: Plant 8#, No. 47, 49, 51, Zhennan 7th Road, Tongan, Xiamen, Fujian, China



ISO9001/ISO13485/CE



Professional Sterilization Solution Provider





Fast cooling fan
Standard with fast cooling
fan to shorten the whole cycle

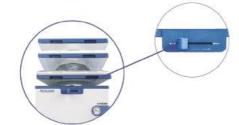


Highest working temp.138°C



6 levels of exhaust speed control

After sterilization, you can choose different exhaust speed, and you can adjust it freely at any time of exhausting



Up and down flip open ,vertical chamber; One move by one hand can easily open and close



Smart microcomputer control

"Inspiration" high speed microcomputer control, not only to monitor and control the whole process, but also to update the function in the future.

Program Memory storage system

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

Calibration interface

Offer temp.and pressure interface, together with the 3Q adapter joints, can insert max 15 sensors one time to do the calibration work

Humanized permission managemen

39CM big diameter in all GR series, more useful in application

The management of the autoclave is classified into 3 levels, user-administrator- engineer, to make sure proper proper usage.

Waste program

Special waste program to sterilize the waste thoroughly

Auto start up appointment

Can make an appointment in 0-15 days

Saturated steam monitoring

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

Auto water fill(only for DR models)

Equipped with automatic water feeding function, standard is with 28L water tank at the back to store water, option is direct water supply by pipe connection from water source while manufacturing.

Biosafety function(only for DAS, DRS)

Use a $0.2~\mu m$ PTFE filter packed in a housing to ensure that no biohazard aerosols, microorganisms and viruses are passing out through the filter during exhausting, so as to make sure the biology safety of the lab.

Monitor of exhaust filter(only for DAS, DRS)

Exhaust filter is put inside a pressure resistant housing (stainless steel material) with an extra PT100 temperature sensor to monitor the temperature, so as to make sure the filter and housing are also being sterilized thoroughly, and will not lead to secondary biohazard pollution.

SUS316L Stainless steel(Option)

Stronger corrosion, longer service life,and greater pressure resistance

Fully automatic drying (only for DR models)

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.

Air filte (only for DR models)

Filtration is higher than 99.99% in particle with diameter of 0.2 μm .

Auto drainage(option)/Auto cleaning(only for 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 sterilization cycle.

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.

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 ion 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