



GI Series Vertical Autoclave

—Lab models

Professional Sterilization Solution Provide

Technical Specification

Model	Standard		Standard GI29SW	GI54SW	GI80SW	GI100SW
	Drying			GI54SR	GI80SR	GI100SR
	DedORIZATION			GI54SX	GI80SX	GI100SX
	Vacuum			GI54SP	GI80SP	GI100SP
Capacity(L)			29	54	80	100
Dimension (LxWxH) (mm)	SW		460x 609 x 976	460x542x1105	620x745x1090	620x745x1200
	SR			460x542x1105	620x726x1090	620x730x1200
	SX			460x660x1105	620x745x1090	620x745x1200
	SP			460x785x1105	620x900x1090	620x900x1200
Chamber dimension (Dia*H)(mm)			Φ320x378	Φ320x725	Φ400x700	Φ400x800
Rated power(W)			2300	2600	4600(2900 as option)	4600
Sus304 basket size(pcs)			(Φ308x265) x1	(Φ298x195) x3	(Φ360x275) x2	(Φ360x215) x3
Power requirement			220V±10% 15A 50HZ/60HZ		220V±10% 25A 50HZ/60HZ	
Temperature display accuracy			0.1℃			
Working environment			5℃~40℃ Relative humidity ≤85%			
Chamber material			SUS304 stainless steel (316L as option)			
Sterilization temp. range			105℃~135℃			
Sterilization time range			1~6000 min			
Melting temp. range			60℃~115℃			
Melting time			1~6000 min			
Warming temp.			45℃~79℃			
Warming time			1~9999 min			
Memory function			60 program saved in system.999 cycles saved by USB			
Appointment timer range			Auto start up appointment)0 ~ 15 days			
Exhaust speed control			Fully automatic internal discharging with 6 levels choice			
Sterilization mode			Liquid,liquid with warming,solid,wrapped instrument,fabric,rubber.fast,waste,agar,self-defined Drying(SR、 SP only)、 Vacuum leak test(SP only)、 BD test(SP only)			
Drying(SR、 SP only)			Drying time： 1~300min Drying temp.： 80~160℃			
Controller			"SMART III" smart microcomputer controller			
Cooling way			Fast cooling fan			
Pressure gauge range			-0.1~0.5MPa			
Pressure valve set pressure			0.29Mpa			
Vacuum pump			Pulse times： 1 ~ 9 times Vacuum degree： ≤-80kpa Vacuum leakage rate (per min)<0.13kpa			
Safety device			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 :Baskets can also be customized, as well as melting and warming temperature range

Leading manufacturer of autoclave

ZEALWAY has always prioritized safety since its establishment, adhering to the highest industry standards and providing multiple safety guarantees from design, manufacturing, use, application to service.



GISW models
GI29SW/GI54SW/GI80SW/GI100SW



GISR models
GI54SR/GI80SR/GI100SR



GISX models
GI54SX/GI80SX/GI100SX



GISP models
GI54SP/GI80SP/GI100SP

Buyer Guide

Model	Function	GISW	GISR	GISX	GISP
6 level exhaust speed control		Standard	Standard	—	Standard
Auto water fill		Option	Option	Option	Standard
Condensor		Option	Option	Standard	Standard
DedORIZATION		—	Standard	Standard	—
Drying		—	Standard(Semi-automatic drying) Option(fully automatic drying)	—	Vacuum drying
Cooling fan		Standard	Standard	Standard 2 pcs	Standard 2 pcs
Access permission		5 level	5 level	5 level	5 level
USB port		Standard	Standard	Standard	Standard
Sterilization record		Standard	Standard	Standard	Standard
Printing set		Option	Option	Option	Just need printer
Micro-printer		Option	Option	Option	Option
Display system		LCD	LCD	LCD	LCD
Load thermometer (floating PT100 sensor)		Option	Option	Option	Option
Auto drainage		Option	Option	Option	Option
Steam collecting way		Internal	Internal	Internal	Internal
Prevacuum		—	—	—	Standard
Auto cleaning		Option	Option	Option	Option
Digital pressure sensor		Option	Option	Option	Standard
Inlet air filter		—	Option	Standard	Standard
Air pump		—	Option	Standard	Standard
S Biosafety function		GI-SWS only	GI-SRS only	—	—

Note: Requirements for sterilization water: distilled water (conductivity not less than 3 μ S/cm)

When configured as an S biosafety type, a condenser is standard

Advanced



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



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



6 level of exhaust speed control (SW,SR,SP only)

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



Fast cooling fan

To shorten cooling process after sterilization



Condenser(Optional)

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.



Auto water fill(Optional)

Offer pipe and pump to connect to the direct water supply to achieve automatic water feeding, must be added while production.



F0 value calculation

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



DedORIZATION(SX only)

A unique odor treatment system that can absorb odors and remove smell generated during the sterilization process, ensuring fresh laboratory air.



Drying (SR only)

Fully automatic drying: Equipped with an air pump and a 0.2um air filter, it automatically starts drying after sterilization. After sterilization, clean air will be put in to replace the wet air inside, so as to improve drying efficiency. (Fully automatic drying is an option for SR only)



Air inlet filter(SX,SP as standard,SR as option)

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



Vacuum pump(SP only)

Original imported vacuum pump from Germany, with good vacuum effect



Monitor of exhaust filter(SWS,SRS only)

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



Biosafety function (SWS,SRS only)

Use a 0.2 μm 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.

Spare part option



Micro printer
To print temp.,time and F0 value



Digital pressure sensor



Load thermometer
Floating PT100 sensor



Tray



Stainless steel bucket



IQ/OQ/PQ
(3Q)adapter joint



Adjust foot

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

[IQ/OQ/PQ documents](#)

Safety Features

Nice look

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

Lid closing check

Machine can not start if lid is not locking well by checking mechanically and electrically.

Inter lock

Only when the temperature and pressure are safe inside, can the door be opened. If the door is not closed in place, it cannot start working

Triple protection for water shortage

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

Temperature monitor

Power cut and alaraming sent, if there is temperature is too high or themperature rising is abnormal

Electrical production

Prevention for over current,short ciucuit and electricity leakage

Saturated steam monitoring

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

powerful

Fully automatic drying(SR only)

Equipped with an air pump and a 0.2um air filter, it automatically starts drying after sterilization. After sterilization, clean air will be put in to replace the wet air inside, so as to improve drying efficiency.

Vacuum

Vacuum drying(SP only)

Set drying temperature and time, and start vacuum drying after sterilization

intelligent

Calibration port

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

Saturated steam monitoring

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

intelligent

Program memory storage system

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

Special software for drug packaging materials (option)

The product meets the 2020 Chinese Pharmacopoeia or EP10.2 standards

hommization

Just right depth

Conforming to ergonomics, the chamber depths of 29/54/80/100L chamber are 378/725/670/780 (mm), making it easy to take and place samples and maintain the instrument

Front water tank

Front water tank, easy to plug in and out.
(SW/SX only)

Zealway(Xiamen)Instrument Inc.

📺 Youtube: Zealway autoclave

🌐 www.zealway.us

📍 No.51, Zhennan 7th Road, Tongan, Xiamen, China