Technical Specification

Model	Standard	GI29TW	GI54TW	GI80TW	GI100TW
	Drying		GI54TR	GI80TR	GI100TR
Capacity(L)		29	54	80	100
Dimension (LxWxH) (mm)		460x542x976	TW: 460x542x1105	TW: 620x745x1090	TW: 620x745x1200
			TR: 460x542x1105	TR: 620x726x1090	TR: 620x730x1200
Chamber dimension(Dia*H)(mm)		Φ320x378	Φ320x725	Φ400x700	Φ400x800
Rated power(W)		2300	2600	4600	4600
Sus304 basket size(pcs)		(Φ298x260) x1	(Φ298x195) x3	(Φ360x275) x2	(Φ360x215) x3
Power requirement		220V±10% 16A 50HZ/60HZ		220V±10% 32A 50HZ/60HZ	
Temperature display accuracy		0.1℃			
Working environment		5℃~40℃ Relative humidity ≤85%			
Power requirement		SUS304 stainless steel (316L as option)			
Temperature display accuracy		105℃~135℃			
Working environment		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, Drying(TP only)			
Drying(TP only)		Drying time: 1~300min Drying temp.: 80~160℃			
Controller		"SMART III" smart microcomputer controller			
Pressure gauge range		-0.1~0.5MPa			
Pressure valve set pressure		0.29Mpa			
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			
Biosafety function（option）		Biosafety filter Biosafety filter are sterilized online			

Note 1 :Baskets can also be customized   ※ Requirements for sterilization water: distilled water (conductivity not less than 3 μ S/cm)

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

ZEALWAY

ISO9001/ISO13485/CE

GI54TW

GI Series
Vertical Autoclave

Professional Sterilization Solution Provide

Safety Features

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.

GITW models
GI29TW/GI54TW/GI80TW/GI100TW

GITR models
GI54TR/GI80TR/GI100TR

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

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

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.

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

Electrical production
Prevention for over current,short ciucuit and electricity leakage

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

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.

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.

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

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

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

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

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.

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

Drying (TR 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)

Biosafety function (option)
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.

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

Fast cooling fan
To shorten cooling process after sterilization

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

Air inlet filter(TR as option)
Filtration is higher than 99.99% in particle with diameter of 0.2 μm.

Fully automatic drying(TR 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.

Monitor of exhaust filter(option)
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

intelligent

Saturated steam monitoring	The system automatically monitors the purge out of cold air to ensure the pure steam environment
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
Program memory storage system	User can set their own program, and saved in system.