GI Series Vertical Autoclave

Advanced

1. 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.

2. 6 level of exhaust speed control(TW,TR,TP only)

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

3. Condenser(Option)

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

4. FO value caculation

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

5. Drying(TR only)

Fully automatic diying: Equipped with an air pump and a 0.2um air fiter, 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 TR only)

6. Vacuum pump(TP only)

Original imported vacuum pump from Germany, with good vacuum effect.

7. Biosafety function (TWS,TRS only)

Use a 0.2 pm 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.

8. Vacuum drying(TP only)

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

9. 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.

10. Fast cooling fan

To shorten cooling process after sterilization.

11. 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.

12. Dedorization(TX only)

A unique odor treatment system that can absorb odors and remove smell generated during the sterilization process,

ensuring fresh laboratory air.

13. Air inlet filter(TX,TP as standard,TR as option)

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

14. Monitor of exhaust filter(TWS,TRS 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.

15. 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.

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.

- **Program memory storage system**

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

- **Saturated steam monitoring**

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

- **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.(TW/TX only)

Safety Features

- **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 misjud-gment 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 temperature Using is abnormal.
- **Saturated steam monitoring:** The system automatically monitors the purge out of cold air to ensure the pure steam environment.

GITW models
GI29TW/GI54TW/
GI80TW/GI100TW

GITR models
GT54TR/GT80TR/
GI100TR

GITX models
GI54TX/GI80TX/
GI100TX

GITP models
GI54TP/GI80TP/
GI100TP

Specification

Model / Function	GITW	GITR	GITX	GITP
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 thermomete(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-TWS only	GI-TRS only	–	–

Model		Standard GI29TW	GI54TW	GI80TW	GI100TW
	Standard		GI54TW	GI80TW	GI100TW
	Drying		GI54TR	GI80TR	GI100TR
	Dedorization		GI54TX	GI80TX	GI100TX
	Vacuum		GI54TP	GI80TP	GI100TP
Difference		GI-TW:Fully automatic with cooling fan GI-TR:GI-TW+semi automatic drying, if need fully automatic drying need to add 530USD			
Capacity(L)		29	54	80	100
Dimension (LxWxH) (mm)	SW	460x542x976	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)		(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°C			
Working environment		5°C~40°C Relative humidity ≤85%			
Chamber material		SUS304 stainless steel (316L as option)			
Sterilization temp.range		105°C~135°C			
Sterilization time range		1~6000 min			
Melting temp. range		60°C~115°C			
Melting time		1~6000 min			
Warming temp.		45°C~79°C			
Warming time		1~9999 min			

Memory function	60 program saved in system,999 cyeles 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(TR、ᎢP only)，Vacuum leak test(TP only)，BD test(TP only)
Drying(TR、TPonly)	Drying time:1~300min Drying temp.:80~160°C
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.
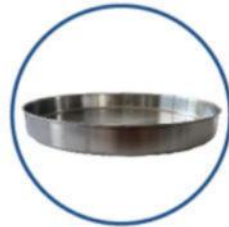
Spare part option

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 sct:printcr+digital
pressure sensor:can print temp. and
pressure in data and flow chart way