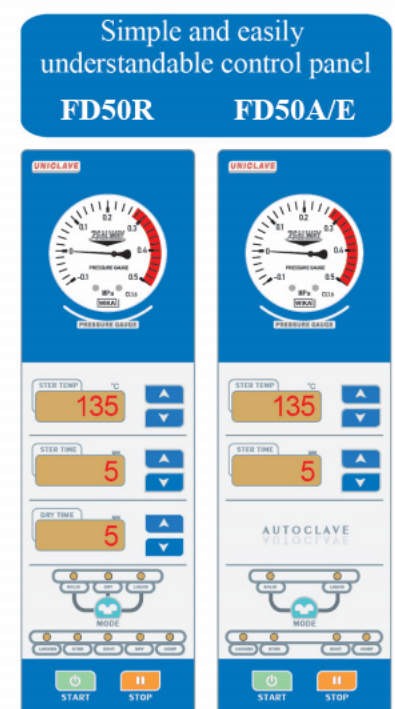# FD Series Vertical Autoclave

Product Features

1. Simple and easily understandable control panel to show the sterilization temperature, sterilization time, drying time, press separate keys to set the temperature and time makes the operation easier

2. Each sterilization stage is displayed with LED lights, making the sterilization process clear at a glance.

3. Microcomputer intelligent control system ,achieves fully automatic control of the sterilization process.

4. Pulse method to completely purge out cold air.(**E/R only**)

5. System automatically monitors the discharge of cold air to ensure a pure steam sterilization environment and the best sterilization effect.

6. Up to 20 error information records can be stored, facilitating instrument management.

7. Built in water tank for internal discharging of steam, effectively absorbing water vapor from exhaust process.(**E/R only**) Fully automatic drying function or semi-automatic drying function choice(**R only**)8. 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 automaticdryingis an optionfor R only**)

Safety Features

- **Lid closing checking:** Machine can not start if lid is not locking well,the self-induction interlock device can avoid risk of misuse.

- **Unique anti-scald cover:** Nice look an davoid causing scald.

- **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 misjudg-ment 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.

- **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.

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

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Specification

Model	Basic	FD29A	FD50A	FD80A	FD100A
	Pulse	FD29E	FD50E	FD80E	FD100E
	Drying		FD50R	FD80R	FD100R
Difference		FD-A: Fully automatic FD-E: FD-A+pulse+inner steam tank+waste water tank FD-S: FD-E+semi automatic drying function, if need automatic drying need to add 530USD			
Capacity(L)		29	50	80	100
Dimension(L*W*H)(mm)		580x490x960	580x490x 1085	730x625x1100	730x625x1200
Chamber dimension(Dia*H)(mm)		Φ320x378	Φ 320 x725	Φ400 x700	Φ400 x 800
Power requirements		220V±10% 16A 50HZ/60HZ		220Y±10% 32A 50HZ/60HZ	
Rated power(W)		2600W	2600W	4600W	4600W
Sus304 basket size(pcs)		(Φ298x260)x1	(Φ298xl95)x3	(Φ360x275)x2	(Φ360x215)x3
Chamber material		SUS304 stainless steel			
Sterilization temperature		105°C~135°C			
Sterilization time range		1～300min			
Pressure gauge range		-0.1MPa～0.5MPa			
Pulse times		0～9 times(E/R only)			
Exhaust temperature range		73°C~104°C(E/R only,liquid mode)105°C~130°C(Solid mode)			
Safety valve set pressure		0.29MPa			
Drying		Drying temperature:80°C~160°C Drying time:1～300 min			
Sterilization mode		Solid mode Liquid mode Sterilization+ drying(R only)			
Controller		Microcomputer control system			
Safety device		Lid closing checking, over temperature protection system,dry scorch protection , over pressure protection, safety valve, over current/short circuit/electric leakage protection,scald protection, automatic failure-inspection system			

Note:FD-A has liquid mode, but can not preset the exhaust temperature for liquid mode.

Spare parts option

Micro printer
To print temp.,time and F0 value

Digital pressure sensor

Tray

Stainless steel bucket

IQ/OQ/PQ (3Q)adapter joint

Adjust foot

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