

LABORATORY VERTICAL AUTOCLAVE BEO1D4 (BAVT-401-B)

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VERTICAL AUTOCLAVE



Safety:

1. Humanized design:

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

2. Interlocking device:

The exclusive patented "eight column evenly distributed" interlock device is safer and more reliable than ordinary interlocking devices.

3. Lid closing checking:

The machine cannot start if the lid is not locking well by checking mechanically and electrically.

4. Real time monitor:

The system will monitor the lid locking, pressure, and temperature status on a real-time basis to guarantee the safe and successful operation of the autoclave.

SPECIFICATIONS

Model	BEO1D4
Old Model	BAVT-401-B
Capacity(L)	60
Dimension(L*W*H)(mm)	644x831x980
Chamber dimension(Dia*H)(mm)	Φ390x505
Rated power(W)	2900
SUS 304 Basket(Dia*H)(mm)	(Φ 370x190) x2
Power requirement	220V±10% 16A 50HZ/60HZ
Temperature display accuracy	0.1℃
Working environment	5℃~40℃ relative humidity ≤85%
Chamber material	SUS304 stainless steel
Sterilization temp. range	105℃~138℃
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
Drying	Drying time: 1~300 min
Cooling lock OPEN temp. range	40℃~99℃ for solid,waste,agar,self-defined
Sterilization mode	Liquid,Liquid with warming,solid,Wrapped instrument,Fabric,Rubber,Fast,Waste,Agar,Self-defined
Program number saved	60 programs
Exhaust speed control	Fully automatic internal discharging with 6 levels choice
Lid open way	Flip open(up and down)
Water tank	1 water storage tank
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 0.2µm biosafety filter
Alt Name	Auto Water Fill



ACCESSORIES FOR PURCHASE

No	Name	Description
1	Micro printer	To print temp. time and FO value Printing set: printer+digital pressure sensor: can print temp. and pressure in data and flowchart way
2	Digital pressure sensor	Printing set: printer+digital pressure sensor: can print temp. and pressure in data and flowchart way
3	Load thermometer	Floating PT100 sensor
4	Tray	
5	Stainless steel bucket	
6	IQ/OQ/PQ (3Q) adapter joint	
7	Adjust foot	



1



2



3



4



5



6



7

FEATURES

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operation of the autoclave.

5. Cooling lock OPEN temperature:

Each program can set different lid OPEN temperatures, especially for liquid programs, so as to prevent users from opening the lid and causing burns when the articles are still in a high temperature state.

6. 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.

7. Double protection for over pressure:

Mechanical pressure gauge and electric sensing system-once pressure is abnormal, the system will cut power, release the pressure, and send out an alarm.

8. Auto troubleshooting:

The system will monitor the working status, and will cut the power, send out an alarm, and report the error information once any abnormal situation is detected.

9. Safety test function:

Regular testing of system security and safety protection measures is possible.

10. Electrical protection:

Equipped with a highly sensitive electrical protection system, effectively providing leakage protection.

Characteristics:

1. 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.

2. Program Memory storage system

Users can set their own program, and save it in the system.

3. 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

4. Saturated steam monitoring

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

5. Humanized permission management

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

6. Agar program

Can heat up, melt, warm the agar or used as chamber preheating function

7. Waste program

Special waste program to sterilize the waste thoroughly

8. Auto start up appointment

Can make an appointment in 0-15 days

9. Option for all model

Hepa filter (0.2µm, efficiency 99.90%) for exhaust+one steam condenser

10. SUS316L Stainless Steel (Option)

Stronger corrosion, longer service life, and greater pressure resistance

11. LCD/USB/APP/Smart Management System (Optional)

LCD: 5-inch screen displays information in text.

USB: Enables storing and transferring sterilization data.

APP: Remote management app (available only in China).

Smart System: Linked with the LIMIS/SCADA system (only in China).

12. Condenser (Option)

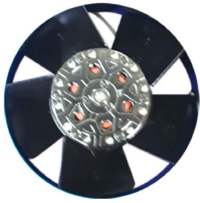
Equipped with a professional condenser, the steam generated during the sterilization process is converted into water through the condenser, achieving zero discharge of water vapor/mist.

13. Biosafety function

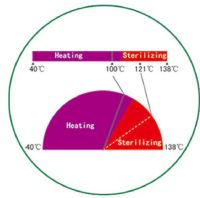
Use a 0.2 µm PTFE filter (efficiency 99.90%) packed in a housing to ensure that no biohazard aerosols, microorganisms and viruses are passing out through the filter during exhausting, so as to ensure the biology safety of the lab.

14. Monitor of exhaust filter

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.



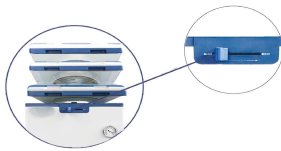
Fast cooling fan
Fan to shorten the whole cycle Standard with fast cooling



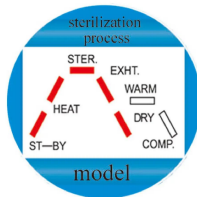
Highest working temp.138°C



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



Preset diverse programs
Flow chart to show the process,press DATA at any time can check the current program setting

MORE INFO

1. Auto water fill

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.

2. LCD/USB/APP/Smart Management System (Optional)

LCD: 5-inch screen displays information in text.

USB: Enables storing and transferring sterilization data.

APP: Remote management app

Smart System: Linked with the LIMIS/SCADA system.

3. Auto Drainage (optional)/Auto Cleaning

Includes a water pump. Drainage can be initiated by pressing a button or set for timed automatic drainage. Automatic cleaning can be scheduled regularly or after each sterilization cycle.



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