



LABORATORY VERTICAL AUTOCLAVE BDN-114

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VERTICAL AUTOCLAVE

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



Safety:

1. 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.

2. Saturated steam monitoring

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

3. Humanized design

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

4. Auto troubleshooting

SPECIFICATIONS

Model	BDN-114
Capacity (L)	54
Outer Dimension	460x570x1050
Chamber Dimension	Φ320x726
Rated Power (W)	2600
Basket Size	(Φ300x205)x3
Working Environment	1P 220V±10% 14A 50Hz/60Hz
Temperature Display Accuracy	0.1°C
Working Environment 2	5°C~40°C, RH < 85%
Chamber Material	SUS304 (opt. SUS316L)
Sterilization Temp Range	105°C~138°C
Lid open way	One button open / Interlock sensor
Sterilization time range	1-6000 min
Melting temp.	60°C-115°C
Melting time	1-6000 min
Warming temp.	45°C-79°C
Warming time	1-9999 min
Exhaust speed control	Automatic 6-level discharge
Memory function	60 programs, 999 cycles by USB
Appointment timer	0-15 days
Pressure gauge	-0.1-0.5 MPa
Valve set pressure	0.29 MPa
Drying	1-300 min @ 80-160°C
Cooling lock range	40°C-99°C (solid) / 40°C-80°C (liquid)
Sterilization mode	Liquid, solid, wrapped instrument, fabric, waste, agar, self-defined
Controller	Inspiration II Smart Controller
Cooling way	Fast cooling fan
Safety device	Interlock, double interlock, lid check, dry scorch protection, safety valve, water sensor, over-temp/pressure protection, electrical safety, cooling lock, anti-scald, auto troubleshooting

Biosafety function	Optional 0.2 µm biosafety filter (S models)
6 level exhaust speed control	Standard
Auto water fill	Standard
Deodorization	-
Access permission	5 level
Fast cooling fan	Standard
Sterilization record	Standard
USB port	Standard
Micro-printer	Option
Condenser	Option
SUS316L steel	Option
Pharma package testing program	Option
Air inlet filter	Standard
Display system	LCD
Load thermometer(Floating PT100 sensor)	Option
Printing set(printer+digital pressure sensor)	Option
Auto drainage	Option
APP control/Remote control	Option
Steam collecting way	Internal
Auto cleaning	Option
Packing Dimension	96*74*125
CBM	0.89
Net Weight	136
Gross weight	157
Alt Name	Auto drying

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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2. Saturated steam monitoring

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

3. Humanized design

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

4. Auto troubleshooting

System will monitor the working status, and will cut the power, send out alarm, and report the error information once any abnormal situation detected

5. Electrical protection

Prevention for overcurrent, short circuit and electricity leakage

6. 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.

7. Evenly distributed interlock

Evenly distributed interlock device is safer and more reliable than ordinary interlocking devices

8. 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

9. 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 an alarm

10. Safety test function

Regular testing of system security and safety protection measures is possible

11. Temperature monitor

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

12. One button to open

Press slightly to close, one button to open (if not safe inside, can not open)

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

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

Note: Baskets can also be customized, as well as melting and warming temperature range

Intelligent:

1. App control (Option)

Download the APP software on your mobile phone, which can monitor the sterilization process in real-time, Query historical data, alarm information, etc.

2. Program memory storage system

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

3. Saturated steam monitoring

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

4. Calibration port

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

5. Special software for drug packaging materials (option)

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

Humanization:

1. Just right depth

Conforming to ergonomics, the chamber depths of 29/54/88/120/150L Chamber are 394/726/733/658/819(mm) making it easy to take and place samples and maintain the instrument

2. Front water tank

Front water tank, easy to plug in and out

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.



Data reading and curve conversion

Provide USB interface for easy reading or storage of sterilization data. The sterilization data is converted into curves for case data analysis.



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



Auto drainage/Auto cleaning (option)

Added with a water pump, press the drainage button

to start drainage, or set it to timed automatic drainage. Automatic cleaning can be set to regular cleaning or cleaning after each sterilization cycle.



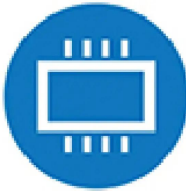
5 level access permission

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



Sterilization record storage

Built in large capacity memory, can store 999 sterilization cycles and can be queried, printed or exported for easy traceability management



FO value calculation

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



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.



Slightly press the lid



Interlock sensor



One button to open



Slightly lift up

MORE INFO

Air inlet filter

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

Drying

Fully automatic drying: Equipped with an air pump and a 0.2 μm 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.

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.



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