



## VACUUM OVEN BOVA-5904

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## VACUUM OVEN

Vacuum Oven:

The vacuum oven maintains a certain degree of vacuum in the tank, lowers the boiling point, and can also be supplied with an inert gas. It is specially designed for the heat-sensitive, easy-decomposing and drying of easily oxidizable substances. It has a fast drying speed, low pollution and will not be dried, are widely used in pharmaceutical, food, chemical, electronics and other industries.



### Intelligent:

It provides two options: colorful touch screen controller and LCD controller. It is easy to operate. (Professional type LCD controller)

With preset power on, standby and shutdown functions.

Parameters such as multi-stage temperature, circulating wind speed, time and heating rate can be set and programmed at the same time, simplifying the complicated test process and realizing automatic control and operation.

### Specialization:

Tested and manufactured using the international DIN-12880-2007 standard.

Provide professional temperature control, high temperature control accuracy and small temperature uniformity error.

Adopt Environmental Design to effectively prevent heat loss, and the heating power

## SPECIFICATIONS

|                                |                     |
|--------------------------------|---------------------|
| Model                          | BOVA-5904           |
| Type                           | LCD Controller      |
| Capacity (L)                   | 125L                |
| Temp Range                     | RT+10°C - 200°C     |
| Temperature Accuracy           | ±1°C                |
| Display Resolution             | 0.1°C               |
| Max degree of vacuum           | 99Pa                |
| Standard Max number of shelves | 2 (10)              |
| Max load per shelf             | 20Kg                |
| Interior Material              | 304 stainless steel |
| Interior Dimension WxDxH (mm)  | 500x500x500         |
| Exterior Dimension WxDxH (mm)  | 660x824x774         |
| NW                             | 175Kg               |
| Inert gas air inlet            | standard            |
| Electrical Requirement         | AC220V/50Hz         |
| Power Consumption              | 2400W               |
| Alt Name                       | Vacuum Oven         |

## FEATURES

### Intelligent:

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With preset power on, standby and shutdown functions.

Parameters such as multi-stage temperature, circulating wind speed, time and heating rate can be set and programmed at the same time, simplifying the complicated test process and realizing automatic control and operation.

### Specialization:

Tested and manufactured using the international DIN-12880-2007 standard.

Provide professional temperature control, high temperature control accuracy and small temperature uniformity error.

Adopt Environmental Design to effectively prevent heat loss, and the heating power is reduced by 20% compared with the traditional design.

Stackable to save lab space.

#### Safety:

Protection of equipment: The second set of temperature limit alarm system conforms to international standards. When the heating is out of control or exceeds the maximum limit temperature, the heating is automatically cut off, and the sound and light alarm reminds the operator. Ensure that the equipment operates safely without accidents.

Protection of key components: The key electrical components are equipped with over-current, over-temperature, overload and other safety protection to prevent accidental equipment.

Protection of the sample: When the temperature inside the box is higher or lower than the set temperature, the alarm will start to cut off the heater, and the sound and light will remind the operator to protect the sample from normal test without accident.

Protection for users: The cabinet and door are specially insulated to make the surface temperature of the cabinet low, ensuring the operator's safety and no accidents.

Provide fault information: When the device fails, the display will display fault information to ensure that the fault information is clear at a glance.

#### Humanized design:

With reservation and timing functions, there is no need to wait, which effectively improves the efficiency of the experiment.

Available in Chinese and English menus to meet different language needs, with °C/°F

The machine above 90L has moving casters for flexible and convenient movement.

The door is closed and elastically adjustable, and the integrated molded silicone rubber door seal ring ensures the vacuum inside the box.

#### Safety:

Protection on instruments: Comply international standard secondary temp limiting alarm system, when the heating is out of control or exceeds the maximum limit temperature, the heating is automatically cut off with sound and light alarm, ensure operating is safe without any accident.

Protection on key components: Key components are equipped with over-current, over-temperature, overload and other safety protection to prevent accident.

Protection on samples: When the temperature inside the box is higher or lower than the set temperature, the alarm will start to cut off the heater, with sound and light alarm to remind the operator to protect the sample from normal test without accident.

Protection on operator: The cabinet and door are specially insulated to make the surface temperature of the cabinet low, ensuring the operator's safety and no accidents.

Breakdown message provided: When the instrument breakdown, the message will shown on the screen to help operator clearly check.

#### Convenient data processing:

The touch screen type standard with a USB interface, which can record the change status of the temperature parameters.

The LCD screen is option for USB interface.

It can be equipped with RS232 data interface, which can realize remote control of the machine through software (option).

RS-232 and USB can be selected one of them.



#### Advanced Color Intelligent Touch Screen Control:

1. 4.3 inch touch screen, intelligent touch control, real-time display of parameters, simple and convenient operation.
2. Quick setting of temperature, time and other parameters can be carried out.
3. It has the function of program setting. It can be programmed in 7 segments, 63 steps, 9 steps and 1-99 hours and 59 minutes per segment.



#### Professional LCD Controller

1. Intelligent program control with high brightness LCD screen, button operation and real-time display of parameters.
2. Quick setting of temperature, time and other parameters can be carried out.
3. It has the function of program setting. It can be programmed in 7 segments, 63 steps, 9 steps and 1-99 hours and 59 minutes per segment.



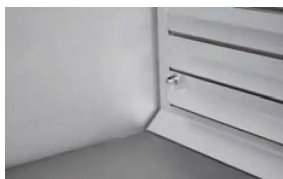
#### Intelligent solenoid valve:

1. Vacuum exhaust pipe adopts solenoid valve automatic control, which is more convenient, laborsaving and safer than mechanical control valve.
2. Joint control of solenoid valve and vacuum pump, solenoid valve opening vacuum pump can automatically open, solenoid valve closing vacuum pump can automatically close, avoiding the possibility of errors in operation.
3. The inert gas intake pipeline is controlled by solenoid valve, which is easy to operate and safe.



#### Bundled heating technology:

1. The shelf is tightly combined with the inner gallbladder with large angle, large contact area, high thermal conductivity and good temperature uniformity, which is 40% higher than that of the traditional way and 50% higher than that of the box.
2. The height of shelf is adjustable, it can be used for drying different sizes of articles and materials, and it is easy to operate.



#### Stainless steel inner liner:

1. The liner is made of 304 stainless steel, sandblasted and has good heat resistance. Strong corrosion resistance, ensuring durability and easy cleaning.
2. The shelf is made of aluminum, sandblasted, and has a large contact area. High thermal conductivity, 40% higher heat transfer efficiency than conventional methods.
3. The number of shelves is optional, and the number of shelves can be increased as needed to improve the efficiency of vacuum box use.

#### Large View Window:

1. Large viewing angle window is adopted to make the objects in the working room clear at a glance.
2. Tempered and bullet-proof double-layer glass is used in the visible window, which has strong pressure resistance and is safe and reliable.
3. The visible window has LED light source to observe the drying condition of the object in the box more clearly.(option)

Special Power Supply for Vacuum Pump:

1. With special power supply jack for vacuum pump and linkage control with solenoid valve, the vacuum pump can start automatically when the solenoid valve is opened. When the solenoid valve is closed, the vacuum pump can be automatically closed. The operation is simple and convenient, and there will be no misoperation. It is safe and reliable.

Inert Gas Intake Valve:

1. With inert gas inlet to meet the needs of special materials demand for inert gas drying.



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