

FORCED AIR OVEN - 59L

REF: BO-50F

Touch screen controller



Intelligent

- Colorful touch screen 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 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.

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Advanced Color Intelligent Touch Screen Control

- 4.3 inch touch screen, intelligent touch control, real-time display of parameters, simple and convenient operation.
- Quick setting of temperature, time and other parameters can be carried out.
- 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.

Energy saving design

- Comprehensive safety performance design to prevent high energy consumption. New synthetic silicon sealing strip is used to prevent heat loss and prolong the life of heating elements. Compared with traditional equipment, thermal power is reduced by 25%.



Exhaust regulator (BO-F Series)

- The size of the valve opening can be adjusted arbitrarily according to the actual situation.
- Air valve adjustment can improve the ventilation efficiency of drying box and prevent excessive heat loss and also improve the uniformity of temperature.



Temperature test hole

- External detection sensor can real-time detect the temperature inside the box through the test hole to ensure the accuracy of the temperature inside the box.



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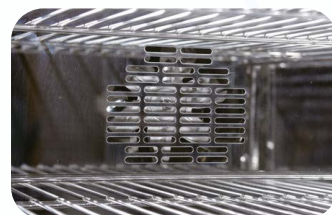
Automatic drying function

- Temperature sensors can be selected to monitor the temperature of samples in real time so as to make the temperature more real and reliable.
- Control system linkage to achieve the purpose of automatic drying. (option)



Circulating Fan

- Forced convection fan, large impeller fan design, good temperature Uniformity. The fan power is multi-stage adjustable to provide the right airflow for you.
- The fan power can be adjusted to improve the operation efficiency of the equipment and the service life of the motor. The service life of the motor can be increased by 30%.



Stainless steel inner liner

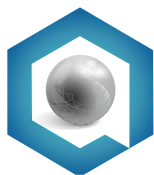
- 304 stainless steel, mirror polishing, strong anti-corruption ability.
- Large arc angle design, no dead angle, easy cleaning and maintenance.



Professional anti-skid and anti-overturning shelf design

- Shelf has anti-inclination function to avoid falling off when shelf is pulled out.
- Shelf has anti-lock function, the shelf will be locked when it is pulled out half, so as to avoid the loss caused by the direct slide of the shelf.



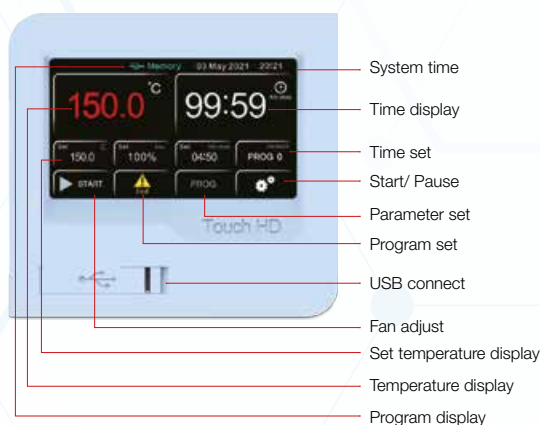


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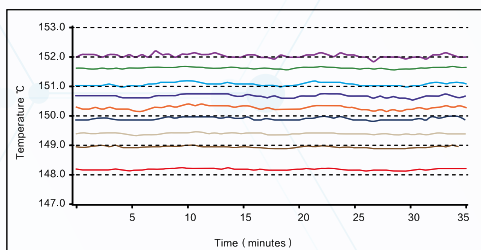
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Colorful intelligent touch screen

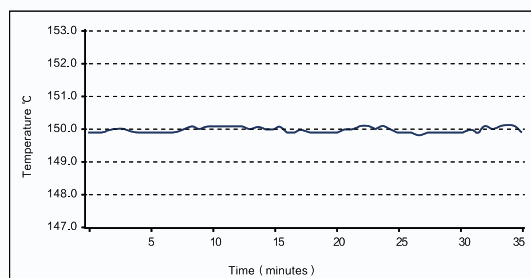


Precise temperature control

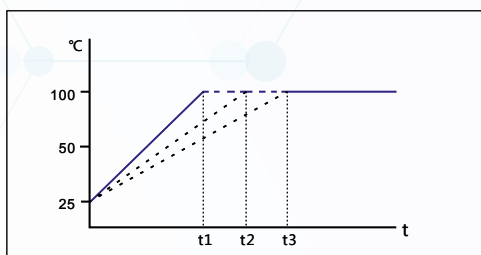


The uniformity of the temperature inside the drying chamber is $\leq \pm 2^\circ\text{C}$, so that all samples are heated evenly (BO-F) series.

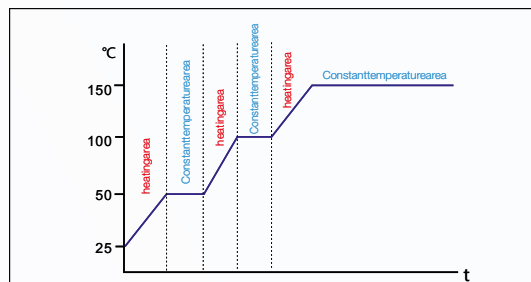
Note: The stability and uniformity are the result under steady state.



The temperature fluctuation inside the drying chamber is $\pm 0.3^\circ\text{C}$, which ensures the stability of the experiment.



Program control mode, linear temperature rise control.



Program control mode, Step heating control.

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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 conversion.
- The height of the shelf is adjustable to meet different cultivation needs.
- Professional stacking foot design, the machine can be stacked, saving lab space and improving the use efficiency (same specification).

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.
- 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.



USB data collect



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Technical specifications

Parameters	Description
Capacity (L)	59L
Temp Range	RT+10 °C ~200 °C (MAX 300 °C)
Display Resolution	0.1 °C
Uniformity at 100 °C	±2.0 °C
Heated to 100 °C	25mins
Standard	2(9)
Max number of shelves	
Max load per shelf	20Kg
NW	51Kg
Timing Range	1~5999mins
Interior Dimension W×D×H(mm)	400×305×415
Exterior Dimension W×D×H(mm)	690×560×640
Electrical Requirement	AC110V/60Hz
Power Consumption	1100W

BO-F series touch screen controller

- The outer dimensions do not include hinges, handles, gauges, wires, etc., and the internal dimensions do not include the duct section.
- All test data are tested in a 25°C environment.
- If the maximum temperature is to reach 300°C, please note in advance before ordering.