



NATURAL CONVECTION OVEN BONC-5704

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OVENS

Natural Convection Oven:

The high temperature drying oven provides a stable high temperature environment through precise temperature control, which enables drying and disinfection of glassware, solid objects, solid materials, process equipment, etc. In this type of oven the temperature distribution is based on warm air moving upwards (see diagram). There is no fan that actively distributes the air inside the chamber. The benefit of this technology is very low air turbulences for gentle drying and heating.



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	BONC-5704
Type	LCD Controller
Capacity (L)	222L
Temp Range	RT+10°C - 200°C (MAX 300°C)
Display Resolution	0.1°C
Uniformity at 100°C	±2.5°C
Heated to 100°C	25mins
Standard Max number of shelves	2 (16)
Max load per shelf	20Kg
NW	103Kg
Timing Range	1 - 5999mins
Interior Dimension WxDxH (mm)	650x500x685
Exterior Dimension WxDxH (mm)	940x658x910
Electrical Requirement	AC220V 50Hz
Power Consumption	2250W
Alt Name	Natural Convection Oven

FEATURES

Intelligent:

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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.

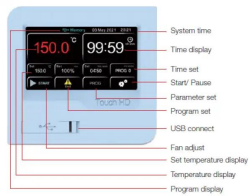
Protection of key components: The key electrical components are equipped with over-current, over-temperature, overload and other safety protection to prevent accidental equipment.

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.

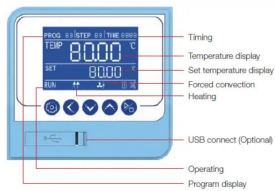
Provide fault information: When the device fails, the display will display fault information to ensure that the fault information is clear at a glance.

Colorful intelligent touch screen:



Advanced Color Intelligent Touch Screen Control:

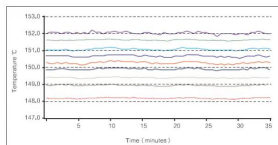
1. 4.3 inch touch screen, intelligent touch control, real-time display of parameters, simple and convenient operation.
2. Quick setting of temperature, time and other parameters can be carried out.
3. It has the function of program setting. It can be programmed in 7 segments, 63 steps, 9 steps and 1-99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

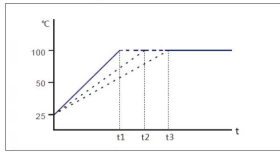
Precise temperature control:



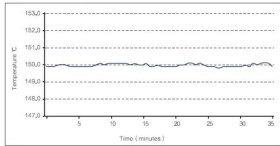
The uniformity of the temperature inside the drying chamber is $\leq \pm 2$ degree C , so that all samples are heated evenly (Air forced)series.

The uniformity of the temperature inside the drying chamber is $\leq \pm 2.5$ degree C , so that all samples are heated evenly (Natural Convection) series.

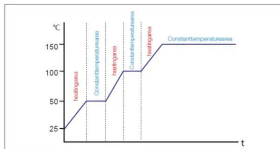
Note: The stability and uniformity are the result under steady state.



Program control mode, linear temperature rise control.



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



Program control mode, Step heating control.



Temperature test hole:

1. 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.



Exhaust regulator:

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



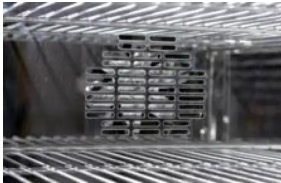
Energy saving design:

1. 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.
2. Compared with traditional equipment, thermal power is reduced by 25%.



Sample temperature detection:

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



Circulating Fan:

1. Forced convection fan, large impeller fan design, good temperature Uniformity. The fan power is multi-stage adjustable to provide the right airflow for you.
2. 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:

1. 304 stainless steel, mirror polishing, strong anti-corruption ability.
2. Large arc angle design, no dead angle, easy cleaning and maintenance.



Professional anti-slid and anti-overturning shelf design:

1. Shelf has anti-inclination function to avoid falling off when shelf is pulled out.
2. 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.



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com