HIGH TEMPERATURE
DRYING OVEN MODEL DISPLAY



CRAFTED WITH INGENUITY, WITH CONSISTENT QUALITY

Telephone service

BECAREFUL

As our productinnovation,as the upgrading of products may have certain parls and the instructions are not consistent,refer to the actual product please understanding

Please read the user manual carefully before use

500℃ HIGH TEMPERATURE
DRYING OVEN

OPERATION INSTRUCTIONS

500℃ HIGH TEMPERATURE DRYING OVEN

1、 Purpose:

The maximum working temperature of the drying oven is 500 ℃. It is suitable for drying, oven heat treatment, or other heating purposes. It is also a regular instrument in the laboratory.

The working temperature of the drying oven can be increased from room temperature by 50 ℃ to the highest temperature. Within this range, the working temperature can be arbitrarily selected, and the temperature can be kept constant by the automatic control system inside the oven.

The movement of the proportion of cold and hot air in the drying oven workshop promotes convection, making the indoor temperature uniform.

This drying oven has a precise structure, sensitive and accurate temperature control, and is easy to operate. It can be used in industrial, mining, and research institutions such as colleges and universities.

2、 Structure

The drying oven is composed of thin steel plates, and fiber insulation material is used between the working chamber and the outer shell of the box. Opening the exhaust valve on the top of the box allows for convective exchange of hot and cold air in the working room, and temperature control is automatically controlled by a thermal expansion controller or digital display instrument. All electrical control equipment is installed in the control layer on the box side. The control layer has side doors that can be removed for inspection or repair of circuits.

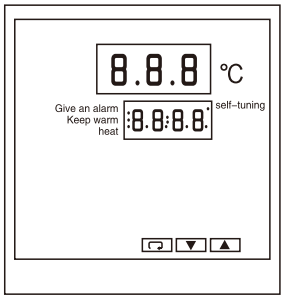
The electric heater is installed under the working chamber inside the box, divided into two groups, namely "low-temperature heating" and "high-temperature heating", and has an indicator light to indicate the heating work. When the light is on, it indicates that the electric heater is working, and when the light is off, it indicates that the heating has stopped.

3、 Usage and Attention

(1) After connecting the power supply, turn on the power switch to turn on the heating. Set the desired temperature in the control panel, and the box will start heating up with the indicator light on.

(2) The product is equipped with a low-temperature heating switch and a high-temperature heating switch. When heating up, the high-temperature heating switch can be turned on to increase the heating speed. When maintaining a constant temperature, the high-temperature heating switch can be turned off to work with low-temperature heating. To prevent excessive power from affecting the sensitivity of constant temperature.

(3) Instructions for using control instruments:



Panel Description	Content Description
Upper monitor	Actual temperature value inside the oven
Lower row display	Set temperature value or time
Heating indicator light	The temperature inside the oven is too low, and the heater is heating up
Insulation indicator light	The temperature inside the oven has reached the set temperature
Self setting indicator light	Automatic setting of PID parameters in progress
▼	Set value increase key
▲	Set value decrease key
↺	Parameter setting self-tuning key

Control parameter function

Display symbol	Name	illustrate	Setting Range	Factory value
AL	AL	Alarm value	Full process quantity	10
ST	ST	Timed Time	0-99 hours and 59 minutes, set 00:00 without timer function	0
LcK	LCK	Keyboard lock	0~9999	0

① Temperature setting:

Press the ▲ key to increase the set temperature; Press the ▼ key to decrease the set temperature and set the desired temperature.

② Overtemperature alarm and time setting:

Press↺Press the ▲ and ▼ keys to set the alarm temperature value. The alarm temperature value is equal to the set temperature plus the alarm value. Press again ↺ Key, the upper row displays ST, press the ▲ and ▼ keys to set the timer time, press again↺The upper row displays LcK and the lower row displays 0. Press again↺Key exit, setting completed. The instrument with a timer function displays the temperature time in the lower row after starting the timer. When the timer is reached, the output is turned off and the lower row displays OFF. If the timer time is set to 0, the timer function is turned off and the device remains at a constant temperature.

a. To observe the sample situation in the studio, you can open the outer door. But it is advisable to keep the box door closed infrequently to avoid affecting the constant temperature. The box should be placed at an indoor level.

b. One iron shell knife switch should be installed in the power supply line for the dedicated use of this box, and the outer shell should be grounded.

c. Before powering on, check the electrical performance of this box and pay attention to whether there is any open circuit or leakage.

d. When everything is ready, the test sample can be placed in. Close the box door and insert a thermometer into the exhaust valve hole on the top of the box. At the same time, open the exhaust valve with a gap of about 10m/m. At this point, the power can be connected and work can begin.

e. Do not remove the side door arbitrarily, disturb or change the circuit. Only when the box malfunctions, the side door can be removed and checked one by one according to the circuit. If there is a major malfunction, please contact our factory.

f. This box is a non explosion proof drying box, so it contains flammable and volatile substances. Do not put it inside the drying box to avoid explosion.

g. Each drying oven is equipped with 2 sample shelves. The average load of the partition is 20 kilograms. When placing the test sample, do not be too dense or overloaded to avoid affecting the convection of hot air. At the same time, the test sample cannot be placed on the bottom heat dissipation plate of the studio to prevent overheating and damage to the test sample.

(4) To observe the sample situation in the studio, you can open the outer door. But it is advisable to keep the box door closed infrequently to avoid affecting the constant temperature. The box should be placed at an indoor level.

(5) One iron shell knife switch should be installed in the power supply line for the dedicated use of this box, and the outer shell should be grounded.

(6) The 101-3 and 101-4 models operate at a high temperature of 500 degrees Celsius with a voltage of 380V and are three-phase, four wire (connected to three flames and one neutral).

(7) The drying oven should be placed indoors with good ventilation and no flammable or explosive materials around it.

(8) The drying oven cannot be used in completely unsupervised situations, and the timing function can only assist workers in on-site operation and setting to avoid accidents in case of malfunctions.

(9) This box is a non explosion proof drying box, so it contains flammable and volatile substances. Do not put it inside the drying box to avoid explosion.

(10) Each drying oven is equipped with 2 sample shelves. The average load of the partition is 20 kilograms. When placing the test sample, do not be too dense or overloaded to avoid affecting the convection of hot air. At the same time, the test sample cannot be placed on the bottom heat dissipation plate of the studio to prevent overheating and damage to the test sample.

4、 Product specifications

item / Model number	working voltage V	heater Total power (KW)	operation temperature ℃	Instrument temperature controlsensitivity(℃)	Studio Size (mm)		
					depth	width	height
500℃101-0B	220	2	50-500	0.1	250	250	250
500℃101-00B	220	2.5	50-500	0.1	350	350	350
500℃101-1B	220	3.6	50-500	0.1	350	450	450
500℃101-2B	220	4.5	50-500	0.1	450	550	550
500℃101-3B	380	6	50-500	0.1	500	600	750
500℃101-4B	380	10	50-500	0.1	800	800	1000

Packing list for drying oven		
name	number	remark
host	1	Standard configuration
a partition	2	Standard configuration
instructions	1	Standard configuration
certificate	1	Standard configuration