LABEC

Laboratory Equipment Pty Ltd

INSTRUCTION MANUAL FOR TISSUE FLOAT BATHS

Contents

1. Important information

Before using the product, please read this instruction manual carefully and keep it in a safe place for future reference.

The meaning of the icons in the text

In order to ensure the safety of use, this manual uses a variety of expression methods. Failure to follow the safety warnings and incorrect use may lead to accidents.

🛑 **Stands for: Mandatory**

🚫 **Stands for: Prohibited**

⚠️ Caution! It may cause minor injuries or property damage

🛑 **It's need to do following:**

- Insert the plug into the dedicated socket for the device. Before turning on the power supply, please confirm whether the working voltage of the equipment is the same as the power supply voltage.
- The product can only be used with a power socket with a grounding wire. Make sure that the plug is firmly inserted into the power socket.
- If the power cord is damaged, in order to avoid danger, it must be replaced by a professional person from the manufacturer or its maintenance department or similar.
- Place the device on a stable, level surface. Do not place it in a high temperature and humidity environment.
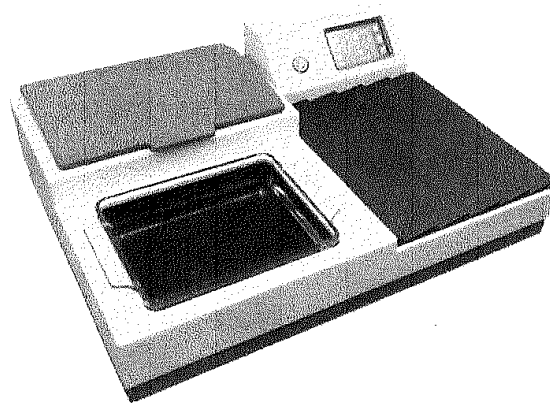
$\bigcirc$ Don't do this

• Do not plug or unplug the power plug with wet hands or press any button on the control panel.

• Do not use the device in an environment with electromagnetic interference.

• Do not modify, disassemble or repair this equipment by yourself without the permission of the manufacturer.

• Do not use volatile solvents such as acetone and xylene to clean the instrument.

2. Brief introduction

This product is an indispensable equipment for pathological tissue sectioning. It is mainly used in large, medium and small hospitals, medical schools, scientific research centers, and animal husbandry to prepare for histology, pathological section, forensic identification and other tissue section work.

This product is an all-in-one machine for slide dryer developed by our company with innovative technology. It adopts a humanized operation panel design, advanced structure, and novel shape. It is an ideal instrument for modern pathological section.

3. Product overall

The product includes: LCD screen, tissue bath (glass bath), slide dryer and oven.

Main parts list: All in one tissue floating bath and slide dryer,glass tissue bath, cable, user manual.

4. Working environment

（1）Power: AC220V±10%, 50Hz±1Hz;

（2）Suitable ambient temperature: 0℃～40℃;

（3）Relative humidity: ≤80%。

5. Technical parameters

（1）Size:570mm*430mm*180mm

（2）Power: AC220V±10%, 50Hz±1Hz; Power: 600VA;

（3）The temperature setting range of each point:

Spreading: 0℃～99℃, the minimum graduation value is 1℃;

Baking: 0℃～99℃, The minimum graduation value is 1℃;

Drying: 0℃～99℃, The minimum graduation value is 1℃;

（4）Tissue layout: 210mm*168mm*55mm, With LED light at the bottom, the tissue section display is clearer;

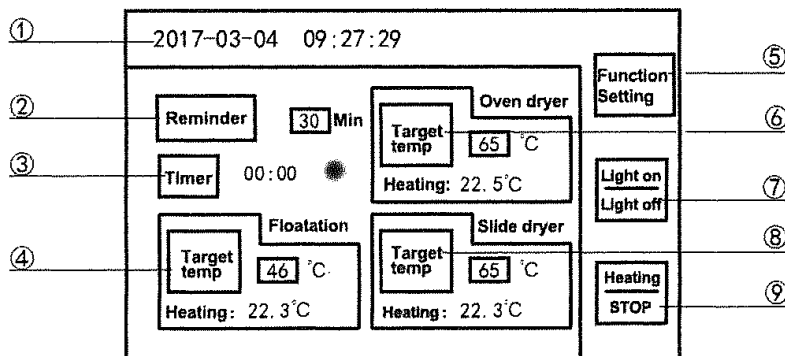（5）Tissue baking: 206mm*170mm*55mm, it can hold up to 64 tissue slides for simultaneous processing;

（6）Tissue drying: 230mm*95mm*105mm, 3 sets of standard staining racks can be placed;

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6. Featured function

（1） The 4.3-inch high-definition color touch screen provides clear information at a glance and is easy to operate.

（2） The computer accurately controls the temperature, the temperature rises quickly and smoothly, and the error is small.

（3） Tissue water bath, slide warmer and oven all in one design, nice appearance and small space occupation.

（4） Inclined insertion and staining rack, multiple drying modes.

（5）Tissue water bath, warmer and oven all points can be switched freely, and easily set the timing.

（6） The whole machine can be set on and off regularly.

（7） LED lights at the bottom display, easy to see the tissue slides floating on the water more clearly.

（8） Computer and physical dual temperature control and protection system to avoid excessive temperature and damage to tissue slices.

7. Home page and parameter settings
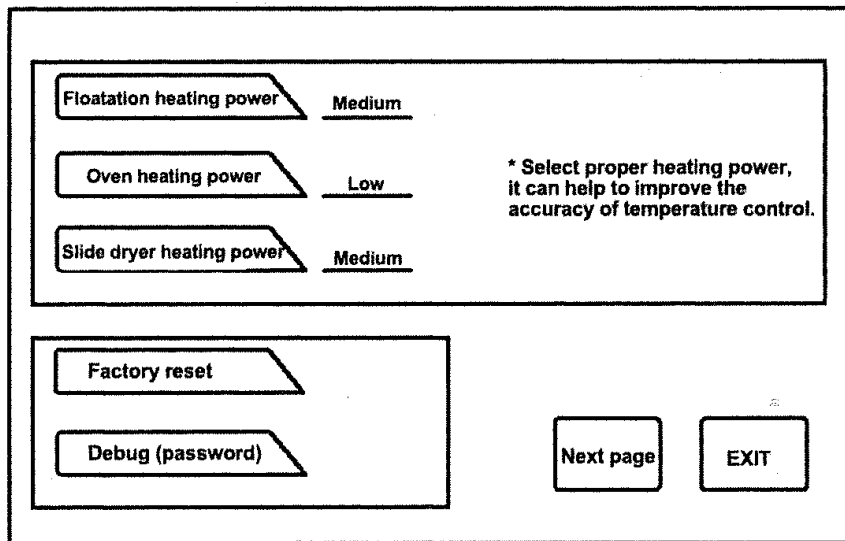
7.1 Home page display

（1）Current time display： Click into time setting page；

（2）Timed alarm setting： Click into time setting

（3）Timekeeping start-up： Click to start timekeeping, when alarm goes off, click the trumpet icon to stop.

（4）Tissue temperature setting and display

（5）Function setting： Click into function setting page

（6）Dryer temperature setting and display

（7）Lighting switch： Click to open/close lighting

（8）Slide dryer temperature setting and display

（9）Heating switch： click to start/close heating

8.2 Function setting：

Function setting page 01

Function setting Page 02

Current date and time setting:

(1) Click the date and time area on the main page, and the time setting window will pop up;

(2) After entering the current time, click the "Finish" button to complete the time setting.

Alarm setting:

(1) Click "Time Reminder" on the main page to pop up the value window;

(2) After entering a reasonable value, click "Confirm" in the value window to complete the time setting;

Tissue floatation temperature setting:

（1） Click "target temperature" in home page, data setting display;

（2） Input proper data, click "confirm", finish temperature setting.

Oven dryer setting:

(1) Click "target temperature" in home page, data setting display;

(2) Input proper data, click "confirm", finish temperature setting.

Slide dryer temperature setting:

(1) Click "target temperature" in home page, data setting display;

(2) Input proper data, click "confirm", finish temperature setting.

Timed power-on settings:

(1)Click the "Function Settings" button on the main page to enter the function settings page 01;

(2) Click "Allow timing power on", click "Yes"or "No".

(3) Click "Power on (hr)"to set the value of hours

(4) Click "Power on (min)"to set the value of minutes.

Timed power-off settings:

(1) Click "function setting" on home page, enter into function setting page 01;

(2) Click "Allow power-off by timer", click "yes" to start up timed power off function; click "no" to close the function of timed power off.

（3） Click "Power off (hr)" to set the value of powering off by hours.

（4） Click "Power off (min)" to set the value of powering off by minutes.

Oven heating function:

(1) Click the "Function Settings" key on the main page to enter the function settings page 01;

(2) Click "use dryer function?", choose "yes" to start dryer function; choose "no" to stop dryer function.

Slide dryer function:

(1)Click the "Function Settings" key on the main page to enter the function settings page 01;

(2)Click "use dryer function?", choose "yes" to start dryer function; choose "no" to stop dryer function.

Tissue heating power setting:

(1) Click the "Function Settings" key on the main page to enter the function settings page 01, then click "next page" into function setting page 02;

（2） Click "tissue flotation heating power" to choose high, medium or low.

Oven dryer heating power setting:

(1) Click "function setting" into home page, enter into function setting page 01, then click "next page" into function setting page 02.

（2）Click "oven dryer heating power" to choose high, midium, low;

Slide dryer heating power setting:

（1）Click "Function setting" on home page, enter into setting page 01, then

click "next page" into function setting page 02.;

（2）Click "slide heating power" to choose high, medium, low.

Factory reset:

（1）Click the "Function Settings" key on the main page to enter the function settings page 01, and then click "Next Page" to enter the function settings page 02

（2）Click "Factory Reset" to perform the factory reset operation;

Device debugging (password):

The manufacturer's personnel carry out heating accuracy debugging and use, and are temporarily not open to users.

9. Operation

You need to do this after opening the box

Step 1: Check the contents of the box according to the "packing list";

Step 2: Take out the baking sheet all-in-one machine and place it on a stable, level surface;

Step 3: Check whether the actual use conditions are consistent with the "working environment" required in the manual;

Step 4: Turn on the power and check whether the LCD display and operation panel are working properly;

Step 5: Turn on the heating and observe whether each point has started to heat up;

Step 6: Turn on the lighting and see if the LED is on;

Step 7: Refer to the daily operation, do a complete baking sheet work, and confirm the normal operation of the equipment.

Daily use operation

Step 1: Put 2/3 of the water in the glass bowl;

Step 2: Power on the device, turn on the power switch, the LCD screen lights up, and the device enters the standby state;

Step 3: Click the "heat/stop" button to turn on heating at each point;

Step 4: When the temperature of each point reaches the set temperature, you can start spreading and warm up the slides;

Step 5: After the work is finished, click the "heat/stop" button to turn off the heating;

Step 6: After the temperature drops to a suitable temperature, clean the equipment.

10. Cleaning and maintenance

Note: When cleaning the machine, you can use mild commercial detergent or soap to clean the dirt. Do not wipe the instrument with volatile solvents such as acetone and xylene. When cleaning, do not put the cleaning liquid into the inside of the equipment. After cleaning, wipe the surface of the machine with a soft cloth.

11. Warranty and after-sales service

If you need service or detailed information, or any questions, please contact the manufacturer or distributor. If the machine fails within one year from the date of sale, provided that the user abides by this manual and operating procedures, the manufacturer will implement warranty or free replacement, and provide lifetime maintenance.

12. Error analysis and solutions

No.	Description	Reason	Solution
1	Power on, LCD screen does not light up, and the switch does not light up	Power cable or fuse damaged	Change power cable or fuse
2	Dryer no heating	Check if the function is closed in setting.	Turn on the function
3	Inaccurate temperature control	The heating power setting of each point is inappropriate	Set the appropriate heating power according to changes in the external environment