

# **Tissue Flotation Bath**

## TFB200101



Thank you for your purchase.

Please read the entire instruction manual carefully before use.

#### Support Information



Support



Register

# **Contents**

Important Information	2
2. Product Introduction	3
3. Product Overview	4
4. Working Environment	4
5. Technical Parameters	4
6. Instructions	5
6.1 Unpacking Inspection	5
6.2 Daily use operation	5
7. Control Panel & Setup	6
7.1 Control Panel	6
7.2 Setup	7
8. Cleaning and Maintenance	9
9. Warranty	9

Please read the operating instructions in full before starting up and follow the safety instructions. The appearance and specifications of the equipment are subject to change without notice.

### 1. Important Information

Before using the product, please read this instruction manual carefully and keep it for future reference. Please contact customer service with any questions at <a href="https://www.4Es-USA.com">www.4Es-USA.com</a> or email SUPPORT@4Es-USA.com.

#### Symbols and Icons

For safe operation, study the following symbols and icons. Misunderstanding of the symbols may result in injury or damage to the device.



[Mandatory]



[Prohibited]



[Notice]

May cause injury or property damage.



[Caution: Hot surface]

Surface can become hot during use.



## [Mandatory]

- Connect the device to the power supply using the supplied electrical cord. Make sure that the operating voltage of the device is the same as the power supply voltage.
- Only use a grounded power socket. Make sure that the plug is firmly connected to the power socket.
- If the power cord is damaged, please contact Four E's USA for a replacement.
- Place the device on a stable, level surface. Avoid exposing the unit to high-temperatures and high humidity.



- Do not plug or unplug the power cord or press any button on the control panel when hands are wet.
- Do not use the device in an environment with electromagnetic interference.
- Do not modify, disassemble, or repair this equipment without permission from the manufacturer.
- Do not wipe the instrument with solvents such as acetone and xylene. Only use a mild soap for cleaning.

#### 2. Product Introduction

Precision temperature-controlled water bath eliminates wrinkles and distortion during preparation of paraffin embedded tissue sections. This device is optimal for tissue placement with a bright white LED to illuminate the basin, slide drying area, and intuitive LCD touch screen operation.

#### **Product features:**

- High-definition touch screen and user-friendly interface for intuitive operation.
- Microprocessor controlled device with precise temperature performance that can keep the temperature accuracy within 1°C.
- Advanced safety over-temperature protection that shuts off the device when the temperature is over 70°C.
- A nonvolatile memory retains the last temperature set point after power off/on.

3

- Timer and alarm reminder.
- Programable auto on/off function eliminates waited warm-up time.
- · Flotation dish with lid.
- Fan-less design to reduce ambient noise.
- Embedded thermocouple to eliminate bulky temperature sensing devices.

#### 3. Product Overview

### Packing List:

- 1 Tissue flotation bath (main unit)
- 2) 1 Glass dish with lid
- 3) 1 Power cord and 2 fuses
- (4) 1 Instruction for use

## 4. Working Environment

- (1) Power supply: AC120V ± 10%, 60Hz ± 1Hz;
- (2) Suitable ambient temperature: 5°C~30°C;
- (3) Relative humidity: ≤80%.

#### 5. Technical Parameters

Parameter	Specification
Temperature set-range	0°C~99°C (1°C increment )
Voltage	AC120V±10%, 60Hz±1Hz
Power	200W
Dimensions(LxWxH)	327 x 340 x 166mm
	210 x 168 x 55mm(glass dish)

#### 6. Instructions

### 6.1 Unpacking Inspection

- Step 1: Check the contents of the package according to the "packing list".
- Step 2: Take out the main unit and place it on a stable, level surface.
- Step 3: Check whether the actual working environment is consistent with the "working environment" required in the manual.
- Step 4: Plug in and turn on the device and check whether the LCD display and operation panel are working properly.
- Step 5: Turn on the heating and observe whether the flotation bath is heating.
- Step 6: Turn on the basin light to see if it is woking properly.
- Step 7: Refer to the daily operation section and complete tissue slide smothening routine to confirm whether the device is working properly.

### 6.2 Daily use operation

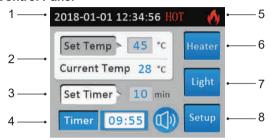
- Step 1: Fill 2/3 of the glass dish with water.
- Step 2: Turn on the device, the LCD screen is on, and the device enters the standby state.
- Step 3: Set the temperature and timer and then touch the "Heater" button to start heating.
- Step 4: When the temperature reaches the set temperature, the water bath is ready for use.
- Step 5: Touch the "Heater" button again to turn off the heating

after use.

Step 6: Clean the surface of the unit when operation finishes.

### 7. Control Panel & Setup

#### 7.1. Control Panel



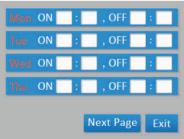
- Date/Time Touch Date/Time area to set the date and time.
   Enter date in the format of "YYYY-MM-DD" and enter time in the format of "HH-MM-SS".
- 2. **Set Temperature** Touch Set Temp and key in the desired temperature, then hit enter
- a. Current water temperature displayed.
- Set Timer Touch Set Timer and key in the desired time, then hit enter
- Start Timer Touch Timer buttom to start timer. Alarm will sound when time is up. Touch the speaker icon to turn off the timer alarm
- 5. Flame icon Indicates that the device is heating.
- 6. Heater button Touch to start or stop the heater
- 7. Light button Touch to turn on/off the basin light.
- 8. **Setup** Touch to set auto-off, screen brightness, basin light brightness or restore defaults.

NOTE: The "HOT" icon flashes when the surface temperature is above 50°C. Do not touch the surface when the "HOT" icon is flashing.

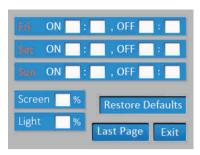
## 7.2 Setup

#### Auto-On/Off

- (1) Touch "Setup" on the main interface to enter the "Setup" interfaces.
- (2) On "Setup" interface 1, user can set the auto-on/off time from Monday to Thursday, and Touch Next Page for "Setup" interface 2, user can set from Friday to Sunday. The time format is a 24 hour clock in HH:MM. 99:99 means no auto -on/off set
- (3) ON Touch first block, set HH, then touch enter. Touch second block to set MM, then touch enter. Repeat for OFF and Each Day.



"Setup" Interface1



"Setup" Interface 2

### Screen brightness

- (1) Touch "Setup" on the main interface to enter the "Setup" interfaces.
- (2) Touch "Next page" to go to the "Setup" Interface 2, touch "Screen" to set the screen brightness percentage.

### **Basin Illumination Brightness**

- (1) Touch "Setup" on the main interface to enter the "Setup" interfaces.
- (2) Touch "Next page" to go to the "Setup" Interface 2, touch "Light" to set the basin brightness percentage.

### Restore factory defaults

- (1) Touch "Setup" on the main interface to enter the "Setup" interfaces.
- (2) Touch "Next page" to enter "Setup" interface 2, and touch "Restore defaults" and confirm setting on the pop-up confirm window.



"Confirm to restore factory defaults" Interface

## 8. Cleaning & Maintenance

- Please note that only water and detergent or soap can be used to clean the machine.
- Do not wipe the instrument with solvents such as acetone and xylene.
- Do not clean the inside of the device with cleaning products.
- Wipe the surface of the machine with a clean dry cloth after cleaning.

## 9. Warranty

Please contact the manufacturer or distributor for service or for more information about the device. The device has a one-year warranty from the date of sale, provided that the user complies with this manual and operating procedures.

## **Warranty Information**

Please use the QR Code to enter the Warranty Registration form on the Four E's USA Website or visit https://www.4es-usa.com/pages/product-registration





Register



Date: 2024.01.18 Version: V1.0