

User Manual

Heated Paraffin Embedding Station SWE-JBL5

Please read the user manual carefully and keep it properly
before using the product for future reference

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01 Purpose

The SWE-JBL5 paraffin embedding station is suitable for embedding dehydrated biological tissues in paraffin. It is widely used in hospitals, medical schools, animal and plant research institutions, food inspection departments, and other fields.

The machine is controlled by a microcontroller and consists of a wax melting tank, insulation tank, electrically controlled nozzle, temperature-controlled worktable, heating device, and other components.

02 Precautions

1. Before powering on, ensure the wax melting tank and insulation tank are filled with an adequate amount of medical paraffin (recommended: at least half full). Dry heating is strictly prohibited;
2. After powering on, check the preset temperature values, which should be within the melting point range of paraffin;
3. Do not operate the "wax discharge switch" (proximity switch or foot pedal) before the paraffin is fully melted to avoid damaging the equipment;
4. Prevent water or other liquids from entering the machine casing. The wax tank should not contain any foreign objects;
5. Do not open the lid of the wax melting tank during the heating process. It takes approximately 40 minutes for the wax temperature to reach 60°C~65°C;
6. During embedding, prevent impurities from entering the wax tank to avoid clogging the nozzle;
7. Ensure the power socket is properly grounded;
8. Non-professionals should not attempt to disassemble the machine; otherwise, consequences will be borne by the user;
9. The service life of the paraffin embedding station is 6 years.

03 Technical Parameters

Wax Melting Tank Temperature Range	0~99°C (Accuracy: ±1°C)
Insulation Tank Temperature Range	0~99°C (Accuracy: ±1°C)
Worktable Temperature Range	0~99°C (Accuracy: ±1°C)
Forceps Holder Temperature Range	0~99°C (Accuracy: ±1°C)
Wax Tube Default Temperature	68°C
Wax Tank Capacity	5000mL
Wax Discharge Mode	Proximity switch control or foot pedal control
Timer Settings	Can be set for automatic power on/off within a week
Cooling Table Temperature Range	0~-40°C
Compressor Operation Mode	After each on/off cycle, wait 10 minutes before the next operation (The same applies when powering on for the first time)
Power Supply	AC220V±10%
Power Supply Frequency	50Hz

04 Operation

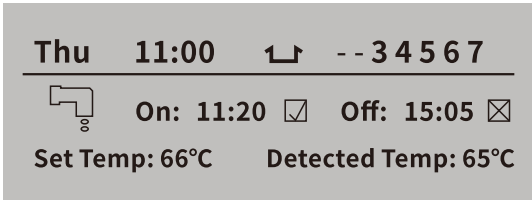
Initial Power-On. The LCD screen displays the following first screen:



After 5 seconds, the screen automatically switches to the second screen:

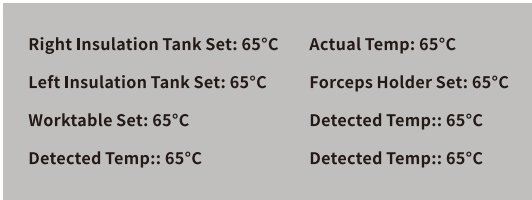
1. Menu Key

Second screen:



2.Third Screen Operation Method

(1) Press the "+" or "-" key to move the highlighted cursor to "↶" then press the "Confirm" key. The LCD will display the fourth screen as follows:



Press the menu button to return to the second screen.

(2) When the LCD displays the fourth screen:

Press the "+" or "-" key to select adjustable parameters as follows:

Right Insulation Tank: 65°C;

Left Insulation Tank: 65°C;

Forceps Holder Set: 65°C;

Worktable Set: 65°C;

After selecting one of the four options, press the "Confirm" key. The highlighted cursor will blink. Press the "+" or "-" key to adjust the temperature value. Press "Confirm" to automatically save the new setting, or wait 3 seconds without pressing "Confirm" for automatic saving. Press the "Menu" key to return.

3. Operation Method for the Second Screen:

Press the "+" or "-" key to move the highlighted cursor and select:

Working Days (1, 2, 3, 4, 5, 6, 7);

Power-On Time (Hour, Minute);

Power-Off Time (Hour, Minute);

Wax Tank Set Temperature.

After selecting one of the five options, press the "Confirm" key. The highlighted cursor will blink. Press the "+" or "-" key to adjust the corresponding parameter value. Press "Confirm" to automatically save the new setting, or wait 3 seconds without pressing "Confirm" for automatic saving.

For Working Days (1, 2, 3, 4, 5, 6, 7), simply press "Confirm" to enable or disable. When disabled, the corresponding day will display "-". For example: (1, 2, 3, 4, 5, -, -) means the device does not work on Saturdays and Sundays.

When a wax droplet symbol appears below the wax nozzle, it indicates the device is ready for operation. If no wax droplet symbol is displayed, the system is heating and cannot be used.

4. Symbols ✓/×

When the timer function is enabled: ✓ indicates the current power-on/off time setting is active; × indicates the current power-on/off time setting is inactive.

5. Timer Function: The device calculates the timer based on a 7-day cycle (please note). The operation method for the cooling table is the same as above.

05 Output Status

1. Heating stops when the wax tank reaches the set temperature. Semi-heating activates if the temperature drops below the set value by 2°C; full-heating activates for a 3°C drop;
2. Wax tube and valve heating operate at half power, stopping at 67°C. Heating only starts if the wax tank temperature is 3°C below the set value;
3. Manual or foot pedal control for wax discharge is enabled only when the wax tank temperature is within 2°C of the set value and the wax droplet symbol is visible;
4. Adjust the flow valve only when wax is discharging.

06 Maintenance

- 1.No Power: Check the 220V socket fuse;
- 2."Err" Display: Indicates a faulty temperature sensor; replace it;
- 3.Heating Failure: Verify temperature settings and inspect heating components/circuits.

07 Packing List

No.	Item	Quantity
1	Paraffin Embedding Station	1
2	Foot Pedal Switch	1
3	Fuse (5A)	2
4	Power Cord	1
5	Disposable Embedding Cassettes	100
6	Embedding Molds (5 types)	5
7	User Manual	1
8	Product Certificate	1
9	Packing List	1

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