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JK-EC1 Tissue embedding center

# **USER MANUAL**

Moss Instruments Co., LTD

# 1 Product overview

1.1 product name: paraffin embedding center

1.2 model: JK-EC1

1.3 product characteristics

Embedding center combines automatic constant temperature heating, Embedding smooth, continuous, no block, no clouds, shut off sensitivity, without dripping wax and seepage wax phenomenon; Built-in lamplight illumination, the light is downy bright; Can preset the data, etc. The main technical specification, please see table 1 below.

Table 1 main technical parameters

Specification	Data value
The wax reservoir volume	7680ml
Left wax preservation box volume	1680ml
Right wax preservation box volume	1680ml
Heating temperature range	Ambient to 85 ℃
Temperature tolerance	≤ ±2℃
The pre-set time range	1 h ~ 999 h
Power consumption	≤800W
Equipment dimension (long x width × high)	600mm×580mm×360mm

## 2 equipment structure

2.1 equipment components and the operation principle

This equipment is made up of the wax reservoir, wax preservation box, embedding platform and electric control system, the wax reservoir and wax preservation box are controlled by electric system in a certain

temperature range, the pedal switch timely control the flow of wax from nozzle for tissue embedding, at the embedding platform.

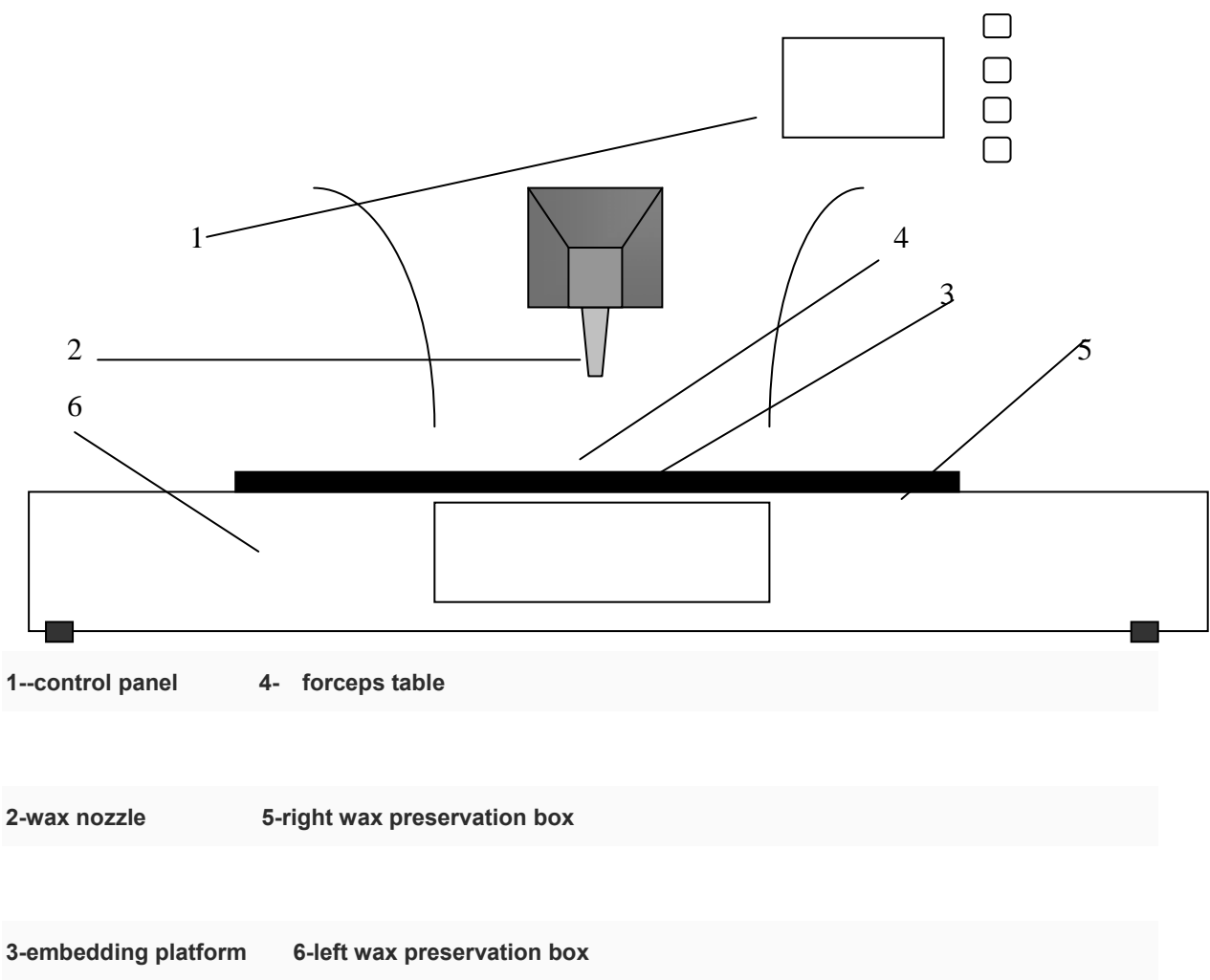


Figure 1 equipment overview

2.2 equipment overview see Fig 1)

## 2.3 control panel see Fig 2)

### 3 the equipment use and applicable range

3.1 JK-EC1 embedding center has tissue specimens embedding processing function.

3.2 JK-EC1 embedding center applicable to the hospital pathology diagnosis and laboratory analysis of the pathology of research work.

### 4 Attention

4.1 the use of this equipment, must be in accordance with the instruction operation.

4.2 be aware of hot wax of embedding center during the operation.

4.3 if any mis-operation occur, please turn off the equipment, and preserve your tissue specimen in the wax box.

4.4 non-operation person contact this equipment is forbidden, equipment installation and operation is processed by technician.

4.5 this equipment can not move and tilt during the operation.

4.6 working environment:- temperature range: < 40 °C;

### 4.7 operating:

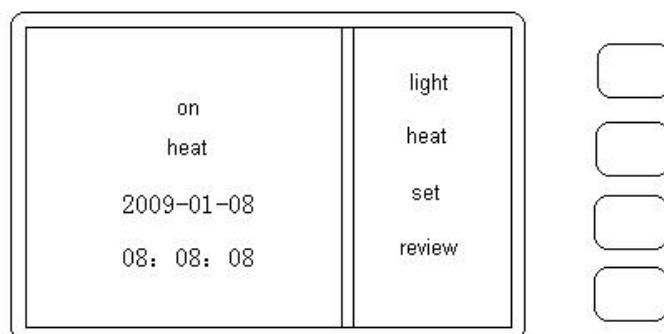
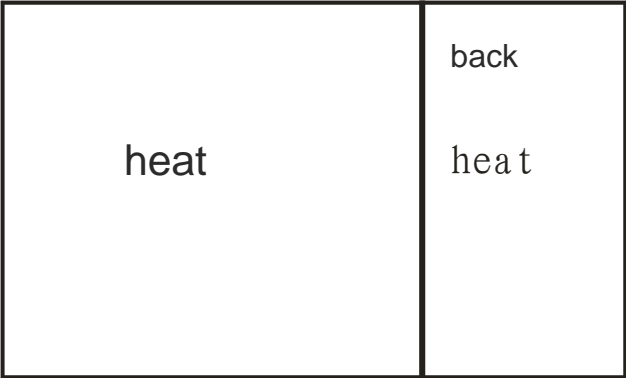
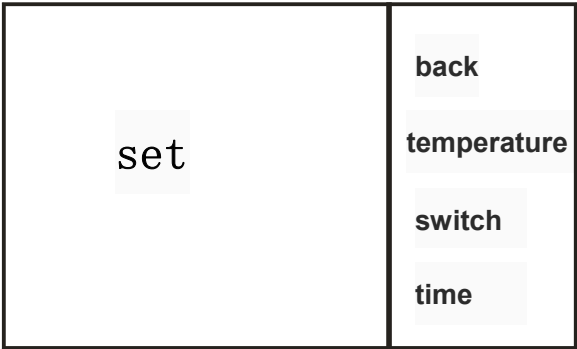


Figure 2 control panel

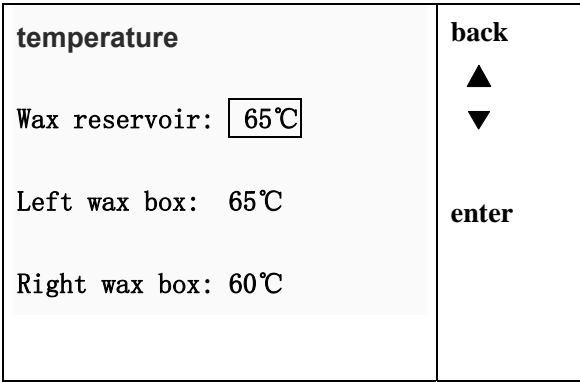
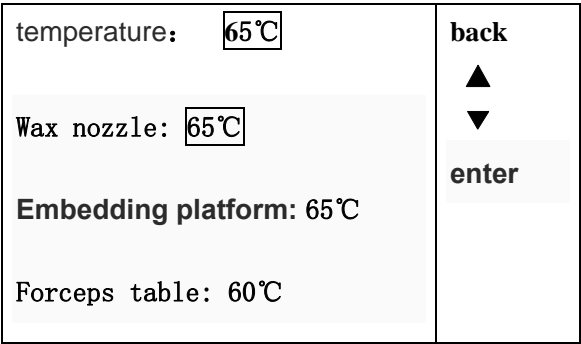
Press the "heat" button, the display come to heating as figure 3 below, press the "back" button, returns to the main interface,



Press the "set" button, into the equipment Settings interface, as shown in figure 4:



Press the "temperature" key, enter set temperature interface, as shown in figure 5:



Press the "▲" button, increase the temperature readings, press "▼" button, reduce the temperature readings, press "confirm" button, the cursor moves. After the setting, press "back" button, returns to the previous interface.

According to "switch" key, enter heating interface, as shown in figure 6:

<b>switch</b>	<b>back</b>
	Right wax box
	Embedding platform
	Forceps table
<b>on</b>	
<b>off</b>	
<b>on</b>	

The "on" is started heating, the "off" is stopped heating, the "return" key, will return to previous interface.

According to "time" key, enter time setting interface, as shown in figure 7:

time	back
12-05-10	▲
10: 00: 00	▼
	enter

Press the "▲" button, increase readings, press "▼" button, reduce readings, press "enter" to complete the setting, press the "back" button to return to previous interface. Press the "time" button, into the time heating interface, as shown in figure 8:

	back
timing	▲
08: 00	▼
16: 00	enter

Press the "▲" button, increase readings, press "▼" button, reduce readings, press "enter" to complete the setting, press the "back" button to return to previous interface.

#### 4.8 routine embedding operation

A) check the wiring of equipment is correct, check the wax in reservoir is enough, and go to the next step for operation;

B) after switch on the equipment, the main power switch in on; The temperature control of wax reservoir, wax preservation box show last time of setting, press "lighting" switch can control embedding a lighting function; press "embedding platform" switch can control embedding temperature;

C) according to the above method to set the temperature of wax resevoir and set the temperature of the wax preservation box, press the "set" button, and the related data set flashing, press "▼" and "▲" button to set the data needed to adjust temperature, then press the "enter" button to confirm the setting, this time will be covered the last set value and long-term preservation, the system is in according with this value for temperature control;

D) please use foot switch for tissue embedding.

E) shut down: after working, shut off the main power switch (mark "O" position), there is no display, the equipment completely shut down.

**Note: when you use the preset function, please don't shut down the equipment!!**

**F) Working condition:**

-humidity range: 30% ~ 85%;

-the atmospheric pressure range: 860 kPa ~ 1060 kPa

-electricity power: 220 V  $\pm$  10%, frequency 50 Hz.

**5. Attention**

1. After receiving the instrument, please open the package to examine the outer appearance, check the appurtenances, and read the instruction carefully before switching on and processing the instrument.

2. In order to ensure the security of people and the equipment, the three-line power source is needed, and make sure that the grounding works well. Non-grounding power is prohibited to this instrument.

3. Before the solid paraffin completely melted, or before the paraffin dispenser nozzle has warmed and reached the setting temperature, DO NOT embed the cassettes by the moment, in order to prevent the dispenser nozzle from leaking paraffin and the dispenser pipe blockage.

4. The overheat protector has been equipped to this instrument. When the detected temperature surpasses the dangerous temperature of 100 °C, the overheat protector can automatically turn off the power of heating element. When the detected temperature drop to 65 °C, the instrument will automatically activated and rework.

5. In order to lengthen the service life of the condenser of Cooling console, the successive working time should be within 4 hours. And a 10 minutes



intermission is needed for restarting the instrument after the power absence.

6. The instrument shall be placed in the well-ventilated site and away from the hot source.

#### 6、Maintenance Service

Comply with the condition of following instructed operating regulation, we supply a warranty of one year from the sales day. To those which have surpassed the warranty period, we will also supply maintenance service according to the after-sales contract signed by our company.

#### 7、Translocation and Storage

**Translocation:** Handle in care, avoid wetting, and place upward.

**Storage:** This instrument should be stored in the clean and airy indoor place with the relative humidity under 80% and be kept far from the caustic gas.

#### 8. Troubleshooting

Table 2 simple troubleshooting

Trouble	Solve
Light cannot open	Lighting is failed , replace it
The wax reservoir cannot heat	Reset the temperature
Equipment cannot switch on	Replace the fuse