



AEC 380

Embedding Center

Operation Manual

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Foreword

Thank you for purchasing our AEC380 Embedding Center. This Operation Manual presents the functions, operation methods, and safety considerations for the Embedding Center.

Please read this manual carefully before use to better understand its performance and make full use of its functions. If you have any questions, contact us, and we will provide satisfactory service at any time.

Please keep this Operation Manual for future reference.

Contents

1、 Safety Notes	1
1.1 Safety Matters.....	1
1.2 Conditions of Installation	1
1.3 Delivery inspection.....	2
2、 Scope of Application & Performance Characteristics	2
2.1 Scope of Application	2
2.2 Performance Characteristics.....	2
3、 Overview- Instrument Components	3
4、 Technical Specifications	5
5、 Installation Instructions	7
6、 Operation Instructions	10
6.1 Touch Screen Function & Instruction	10
6.2 Operation Instructions	14
6.2.1 Set start time and day of the week.....	14
6.2.2 Check and set temperature of working area	14
6.2.3 Set timing heating Or sleep	14
6.2.4 Usage of tissue tray.....	14
6.2.5 Usage of embedding mold tray	14
6.2.6 Usage of finger touch and foot pedal.....	14
6.2.7 Usage of forceps holder	15
6.2.8 Usage of LED light.....	15
6.2.9 Usage of magnifier	15
6.2.10 Usage of cold spot	15
6.2.11 Usage of paraffin trimmer.....	16
6.2.12 Usage of waste wax tray	16
6.2.13 Shutdown procedures.....	16
7、 Trouble Shooting	17
8、 Clearance & Maintenance	19
8.1 Cleaning The Instrument	19
8.2 Maintenance.....	19
9、 Diagram	20

1、 Safety Notes

1.1 Safety Matters

Please read these concise rules. Violating these rules may affect the normal use of the equipment, damage the equipment, or create hazards.



- Please use 220VAC±10% at50HZ or 110VAC±10% at60HZ.



- The input power must be well-grounded.



- Keep away from flammables and explosives.



- Don not open the equipment without authorization to prevent high-voltage shocks.



- Only professional maintenance personnel is allowed to repair equipment.



- Use fuses with correct capacity



- Ensure the power socket and circuit can bear at least twice the rated current.



- Keep away from any interference source.



- Pay attention to liquid paraffin leakage . Note: Before delivery , each joint of each internal pipe is confirmed no leakage .

It only needs to ensure there is no leakage during installation .

◆**Electrical Protection Ratings: I class, B type**

◆**Baleful liquid Leak-in proof degree: Normal (enclosed equipment without liquid leak-in proof)**

◆**Working system: Continuous operation**

1.2 Conditions of Installation

- Ensure there is more than 20cm of space around the equipment for heat dissipation.
- No water droplets, steam, dust (including oily and floating dust).
- No corrosive, flammable, or explosive gases and liquids.
- Solid and non-vibrating surface.
- No interference from other electromagnetic signals.
- Operating ambient temperature from 5°C to 40°C ,relative humidity under 90%

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1.3 Delivery inspection

The product has undergone strict inspection by quality management before leaving the factory. However, the product may be damaged or partially lost due to negligence or severe impact during delivery. Thus

- Please check the contents inside including equipment, operation manual, packing list and spare parts after unpacking,
- Check nameplate to ensure it is your order.
- Make sure there is no damage or loss during delivery

2. Scope of Application & Performance Characteristics

2.1 Scope of Application

The AEC380 Embedding Center performs the embedment of animal, plant, and human body tissue that has been processed and paraffin-treated for later microtome section histology diagnosis and research. It is suitable for use in medical institutions for tissue embedment before pathological analysis.

2.2 Performance Characteristics

- Easy to learn user interface operating with smart color touch screen.
- Programmed timing automatic on / off .
- With a split modular design, AEC 380-PR Paraffin Reservoir can choose to connect with one or two sets of AEC 380-M embedding module according to embedding workload requirement. When two sets of AEC 380-M embedding module are connected, the two units can be controlled separately by AEC 380-PR and perform embedding simultaneously.
- Paraffin Reservoir with a larger volume, Independent wax outlet and constant temperature control of solenoid valve, can supply wax to other devices used at the same time.
- It adopts six heating ways and a precise temperature control system.
- Embedding module, cold spot and paraffin trimmer are integrated. Each operation can be performed on this system in order .
- The paraffin flow can be released by manual or foot switch through the electromagnetic valve .
- Forceps holder with temperature control can automatically drain paraffin inside ,effectively removing paraffin adhering to the tip of the forceps.
- The embedding mold tray with temperature control is beneficial for melting paraffin adhering to the tip of the forceps and for reusing the embedding mold.

- Large capacity storage tissue tray
- Brightness of the LED lights can be adjusted freely .
- The position of magnifier can be flexibly adjusted with a metal hose .
- User-friendly design: Thermal insulation material is used to protect the operator.

3、 Overview- Instrument Components

AEC 380 Embedding Center is composed of the AEC 380-PR paraffin reservoir and the EC 380-M embedding module .

According to different demand ,an AEC 380-PR paraffin reservoir can connect with 1 unit of AEC 380-M or 2 units of AEC 380-M.

As an example of connecting one unit of the AEC 380-M, the main structure is shown below:

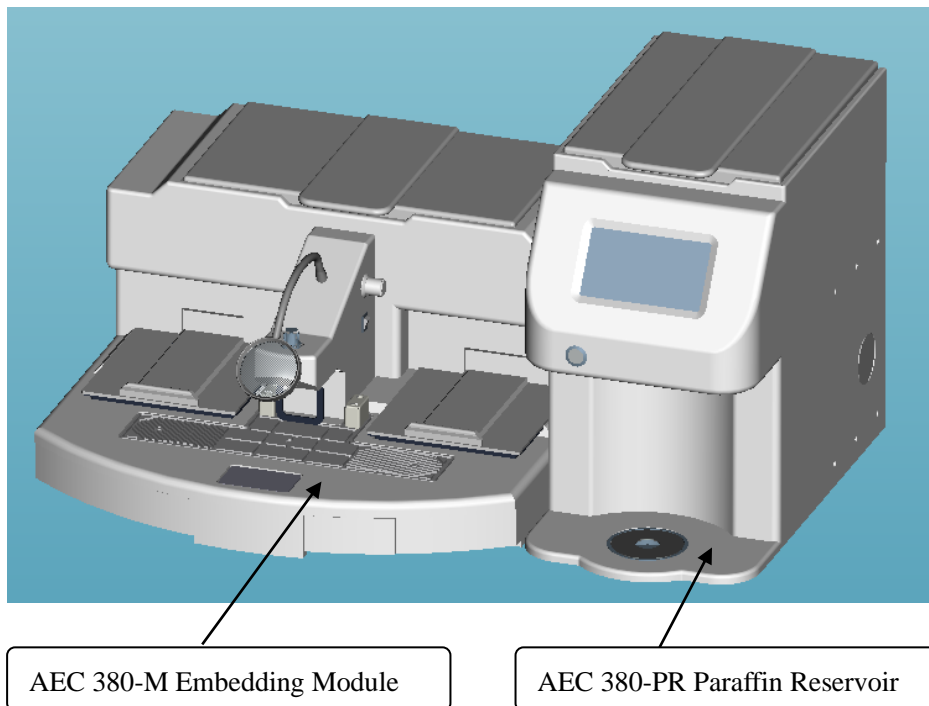


Fig 1

Fig 2

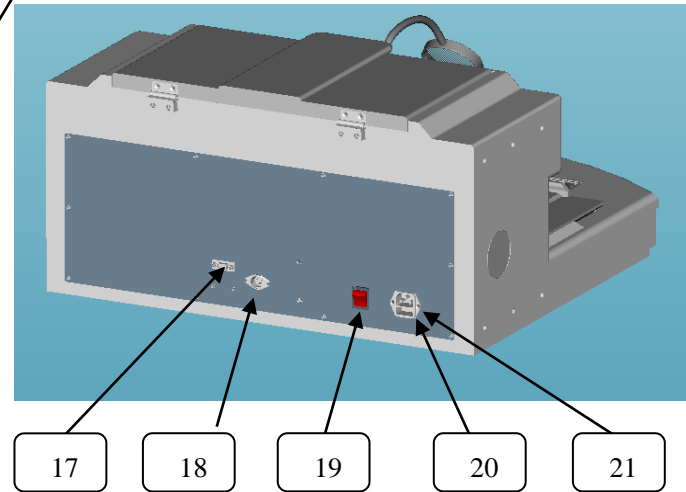
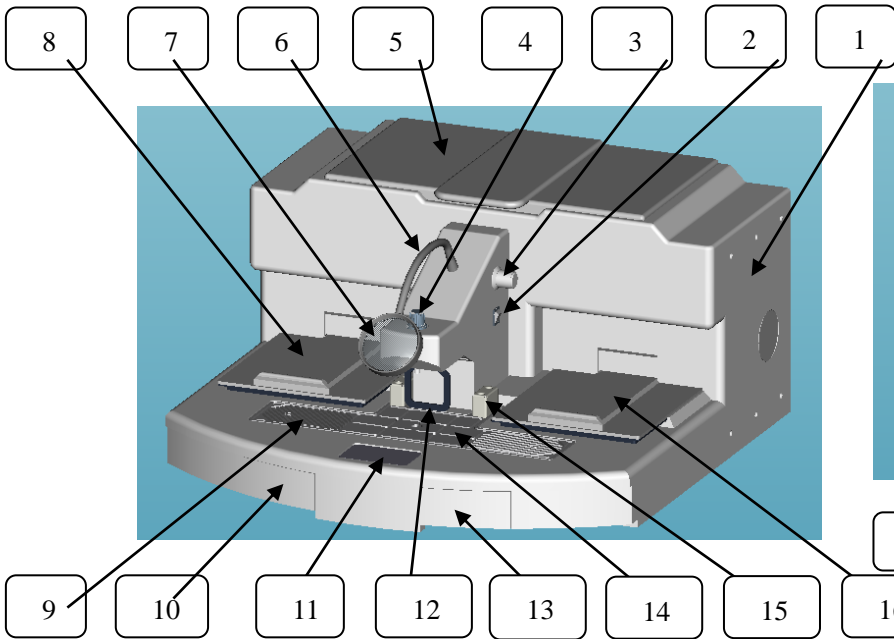
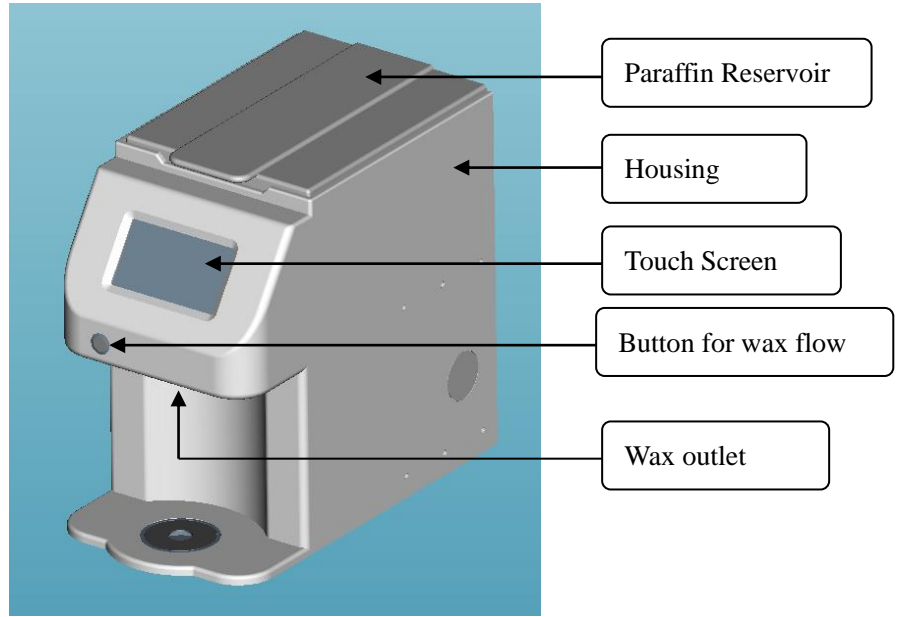


Fig 4

Fig 3

- 6. Metal hose (soft)
- 7. Magnifier
- 8. Cover of Tissue Tray
- 9. Paraffin Trimmer
- 10. Waste paraffin tray(left)

- 17. Serial port
- 18. Foot switch socket
- 19. Power switch
- 20. Power socket
- 21. Fuse mounting hole

- 1. Housing
- 2. Cold spot switch
- 3. LED light adjusting knob
- 4. Wax flowing adjusting knob
- 5. Tissue Tray

- 11. Cold spot
- 12. Finger touch for wax flow
- 13. Waste paraffin tray(right)
- 14. Embedding platform
- 15. Forceps holder
- 16. Storage tray for Cassette Mould

4. Technical Specifications

4.1. Combination 1 : AEC 380-PR Paraffin Reservoir + one unit of AEC 380-M Embedding Module as below picture :

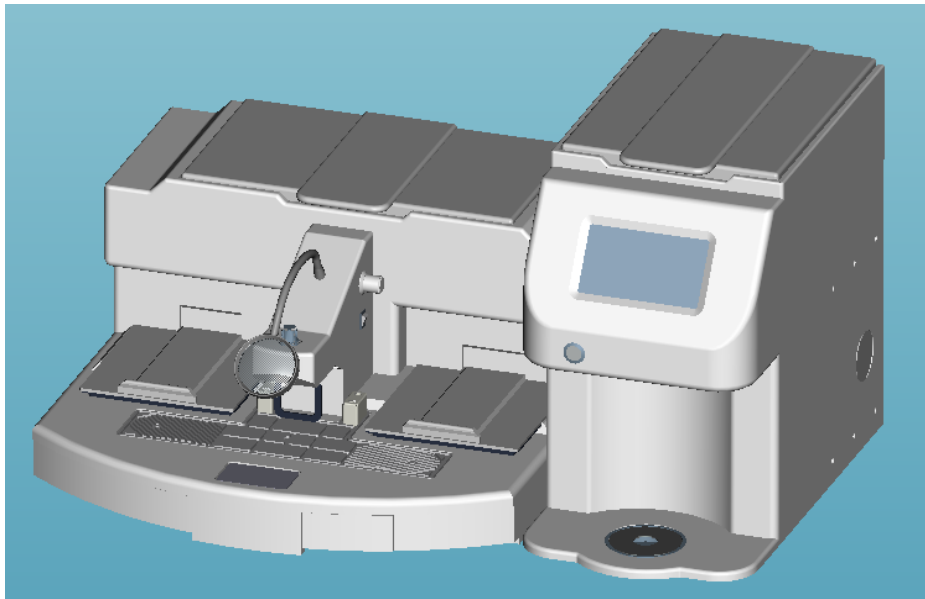


Fig 5

Technical parameters:

- 1、 Capacity of Tissue Tray: 150pcs standard cassettes or 1 pc processor basket of AMOS with 100pcs standard cassettes)
- 2、 Capacity of Embedding Mold Tray: 400pcs.
- 3、 Capacity of Storage Tray: 300pcs standard cassettes or 2 pcs processor baskets of AMOS with 100pcs standard cassettes)
- 4、 Paraffin reservoir: 10L
- 5、 Temperature Range:
Paraffin Reservoir: ambient~90°C, increment 1°C
Tissue tray: ambient~90°C, increment 1°C
Embedding mold tray: ambient~90°C, increment 1°C
Storage tray: ambient~90°C, increment 1°C
Working Area: ambient~90°C, increment 1°C (including Forceps holder and Paraffin Trimmer)
Cold Spot: ambient~ -5°C
- 6、 Maximum flow of wax outlet: 400ML/5 Minute
- 7、 Power: <1350W
- 8、 Voltage: 220V±10% 50Hz or 110V±10% 60Hz
- 9、 Dimensions: 920mm×640mm×520mm (L×W×H)
- 10、 Weight: about 50Kg

4.2. Combination 2: AEC 380-PR Paraffin Reservoir + 2 units of AEC 380-M Embedding Module as below picture:

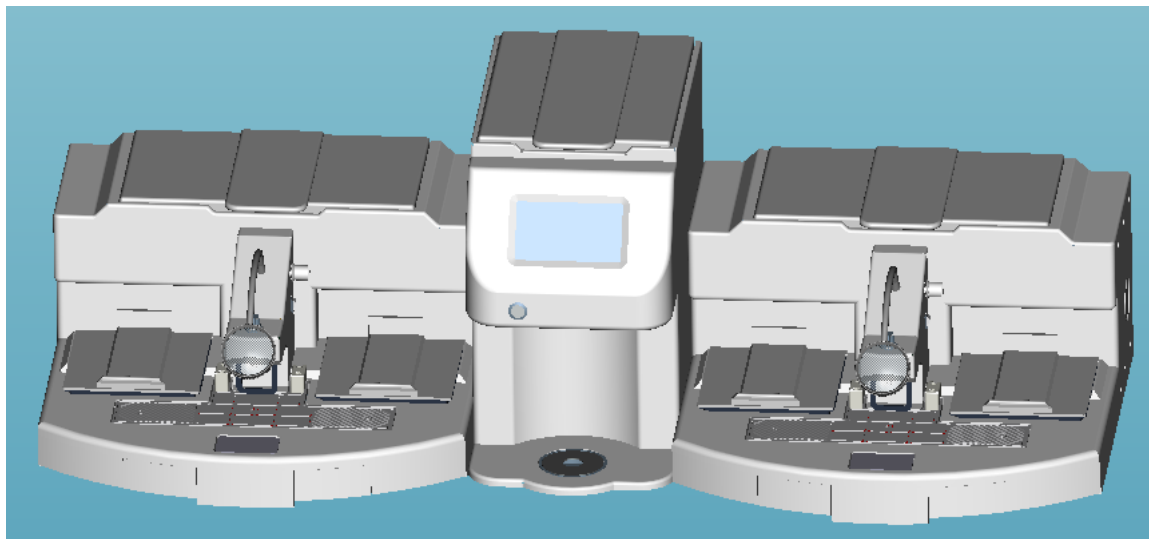


Fig 6

Technical parameters:

- 1、 Capacity of Tissue Tray: 300pcs standard cassettes or 2 pcs processor basket of AMOS with 200pcs standard cassettes)
- 2、 Capacity of Embedding Mold Tray: 800pcs
- 3、 Capacity of Storage Tray: 600pcs standard cassettes or 4 pcs processor basket of AMOS with 100pcs standard cassettes)
- 4、 Paraffin reservoir: 10L
- 5、 Temperature Range:
 - Paraffin Reservoir: ambient~90°C, increment 1°C
 - Tissue tray: ambient~90°C, increment 1°C
 - Embedding mold tray: ambient~90°C, increment 1°C
 - Storage tray: ambient~90°C, increment 1°C
 - Working Area: ambient~90°C, increment 1°C (include Forceps holder and Paraffin Trimmer)
 - Cold Spot: ambient~ -5°C
- 6、 Maximum flow of wax outlet: 400ML/5 Minute
- 7、 Power: <2200W
- 8、 Voltage: 220V±10% 50Hz or 110V±10% 60Hz
- 8、 Dimensions: 1540mm×640mm×520mm (L×W×H)
- 9、 Weight: 80Kg about

5、 Installation Instructions

The AEC 380-PR Paraffin Reservoir and the AEC 380-M Embedding Module are packed separately for delivery. Therefore, they need to be combined. The required spare parts to assemble them are listed in the standard delivery list.

To install the machine, the following tools are needed:

1. S3 allen wrench *1 piece
2. S 17 open spanner *1 piece or two pieces of monkey wrench
3. Open spanner size 8
4. Wiring screwdriver *1 piece or cross screwdriver *1 piece.

Installation steps:

- 1、 Put AEC 380-PR and AEC 380-M on the working table, showing back to installer firstly. If AEC 380-PR only connects with one embedding module, it can be put on the left or right according to user's habit. It is placed on the left side as default (from the front view);
- 2、 Remove the stickers on the holes at the contact side of paraffin reservoir and embedding module . Remove the closure plate on the back of embedding module and paraffin reservoir as shown in the picture below:

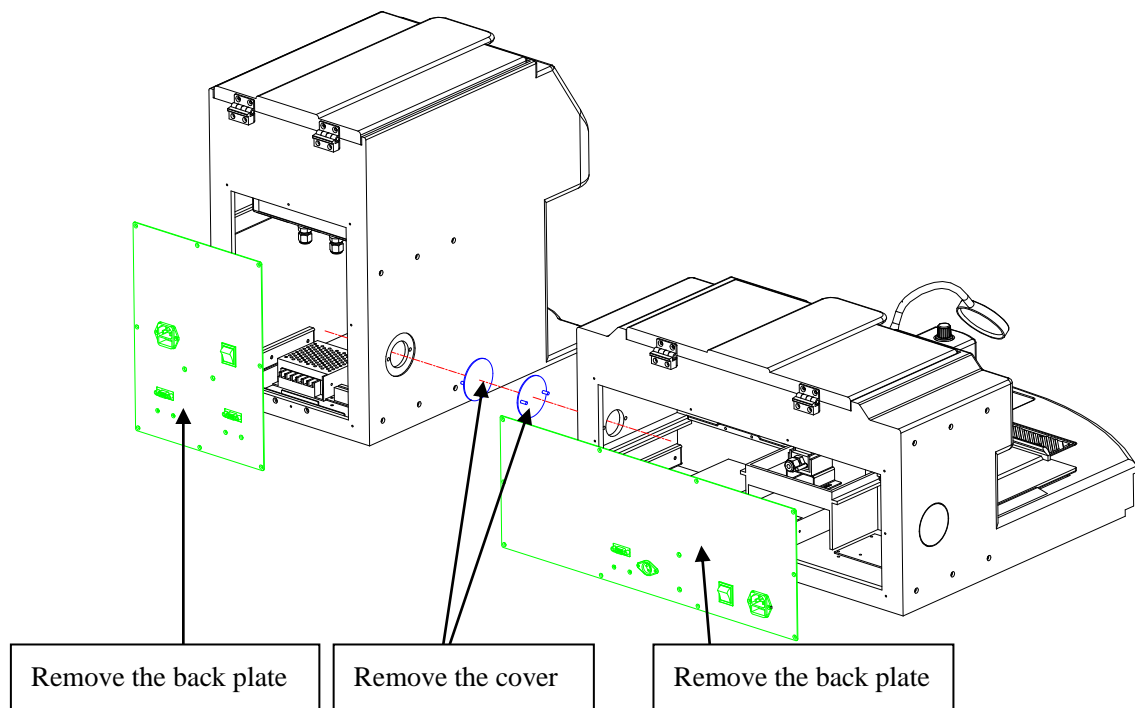


Fig 7

3、 Adjust the mutual position between the paraffin reservoir and embedding module so that the six holes on the side of the paraffin reservoir align with the holes on the side of the embedding module. Then, combine them together using 6 pieces of M6 hex bolts and 4 pieces of connecting plates to secure them, as shown in the picture below:

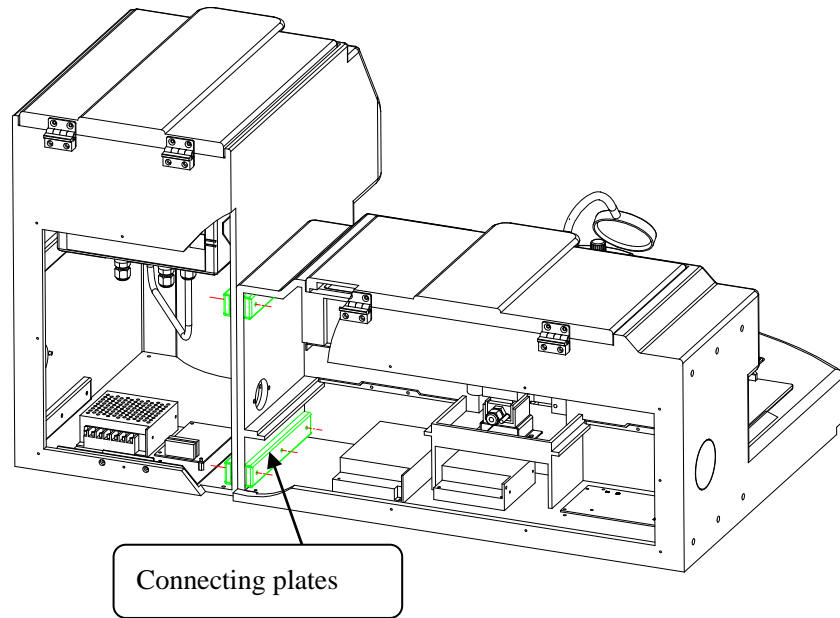


Fig 8

4、 Remove one of the connecting pipes equipped in the embedded host (two connecting pipes are suitable for the installation of the host on the left side and the host on the right side respectively). Figure 9 below shows the connecting pipes used when the host is installed on the left side.

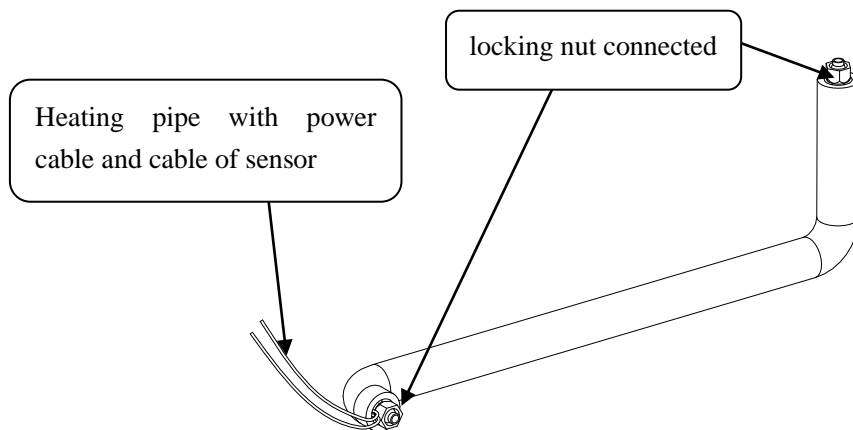
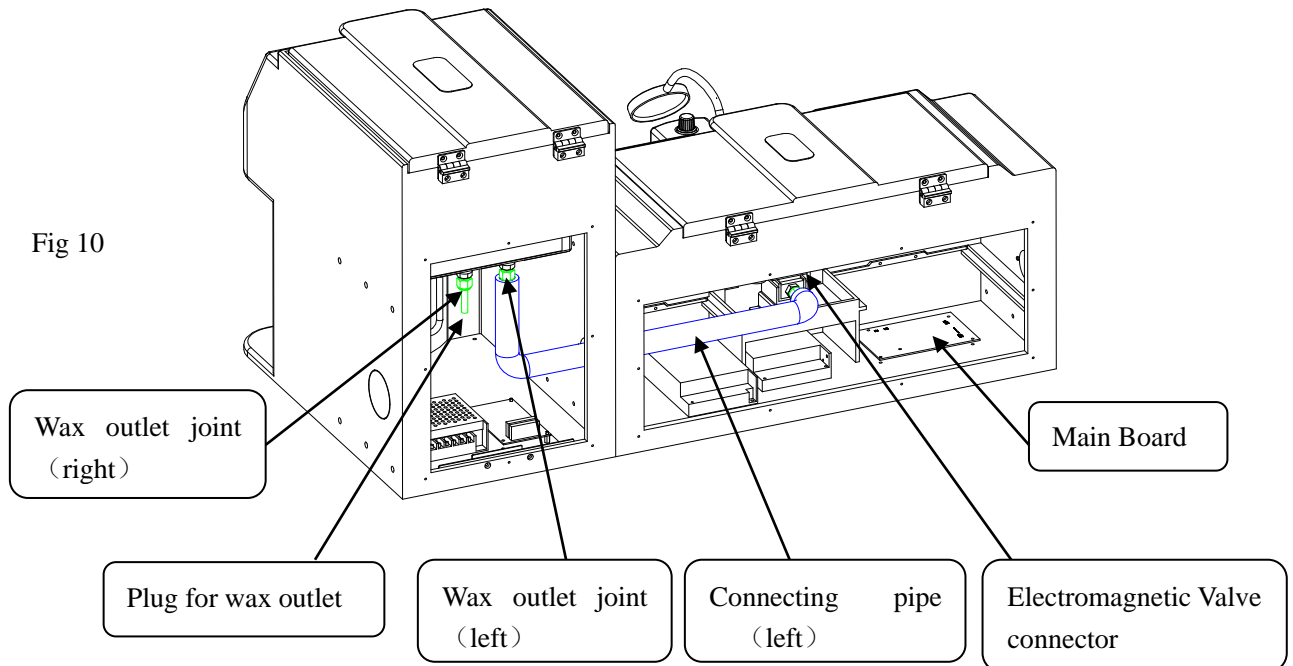


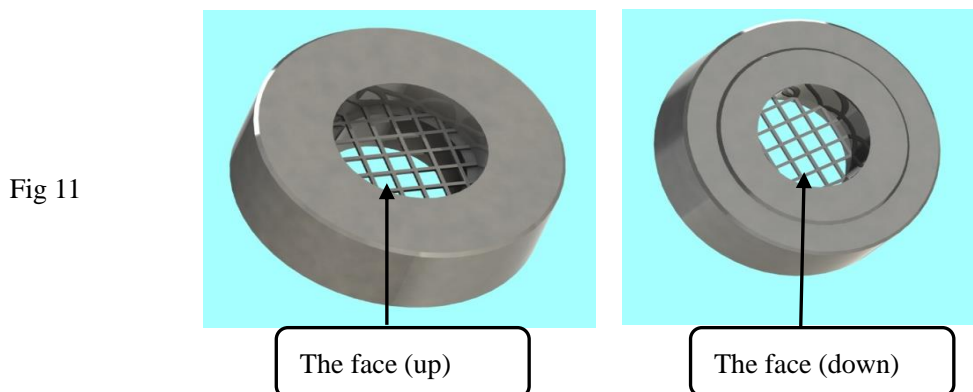
Fig 9

5. Install the connecting pipe (left) between the wax outlet joint (left) and the electromagnetic valve connector, and install the wax outlet plug on the wax outlet joint (right). Pay attention to ensuring that the connection is reliable.

Similarly, if the embedding working table is installed on the right side, the connecting pipe (right) should be installed between the wax outlet joint (right) and the electromagnetic valve connector, and the wax outlet plug should be installed on the wax outlet joint (left). Then, connect the wiring of the power supply and temperature sensor to the embedding main board (refer to the wiring diagram details), as shown in Fig 10.



6. To prevent impurities in the paraffin from jamming the magnetic valve and causing abnormal flow, The equipment installs filters on three paraffin outlets, as shown in Fig 11. Three filters are installed properly at the factory before delivery. However, they may shift during transportation. If there is any shifting, please fix the filter to the outlet as shown in the picture below.



7. The pipe connection has been completed. It is suggested to start the machine and inspect the instrument with filling real paraffin. After the paraffin has melted, check each connector and blocked part for any leakage. If there is leakage, tighten the nut until there is no paraffin leakage. Then, turn off the instrument, unplug the power cord, and proceed to the next step.

8. Install the back cover of the paraffin reservoir that was removed in step 2.

9. Connect the ends of attached data cable to paraffin reservoir and embedding module separately.

Plug the two-power cable into power socket, and plug the foot pedal cable into the corresponding socket. The entire installation is now complete.

6、 Operation Instructions

6.1 Touch screen Function & Instruction

Connect the power cable to the power supply and turn on the instrument. It will display the "Amos" logo first and automatically enter the control interface after 2 seconds. As an example, it introduces the control interface of combination 2. (The operation of combination 1 is similar to combination 2).

(1) 、 Main Interface : As below Fig12,

Key 1 controls embedding module<one>

Key 2 controls paraffin reservoir<two>

Key 3 controls embedding module <three>

The color of the keys indicates the condition of the instrument: Green means the instrument is running, and red means it is on standby. You can switch between running and standby by clicking the keys.

For example:

If Key 1 shows red, it means the embedding module <one> is in standby condition

The Key2 and Key3 showing green means the module <two> and <three> are in running condition.

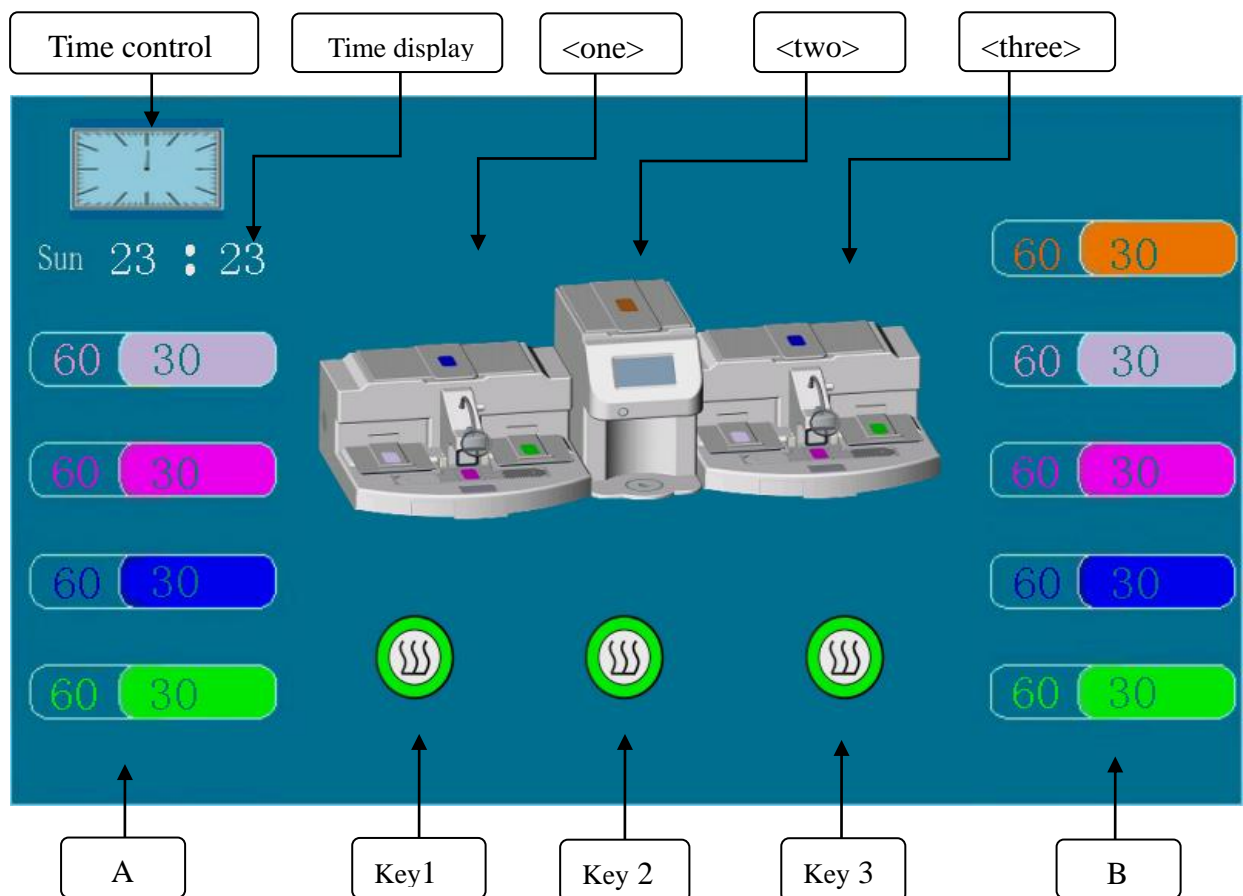
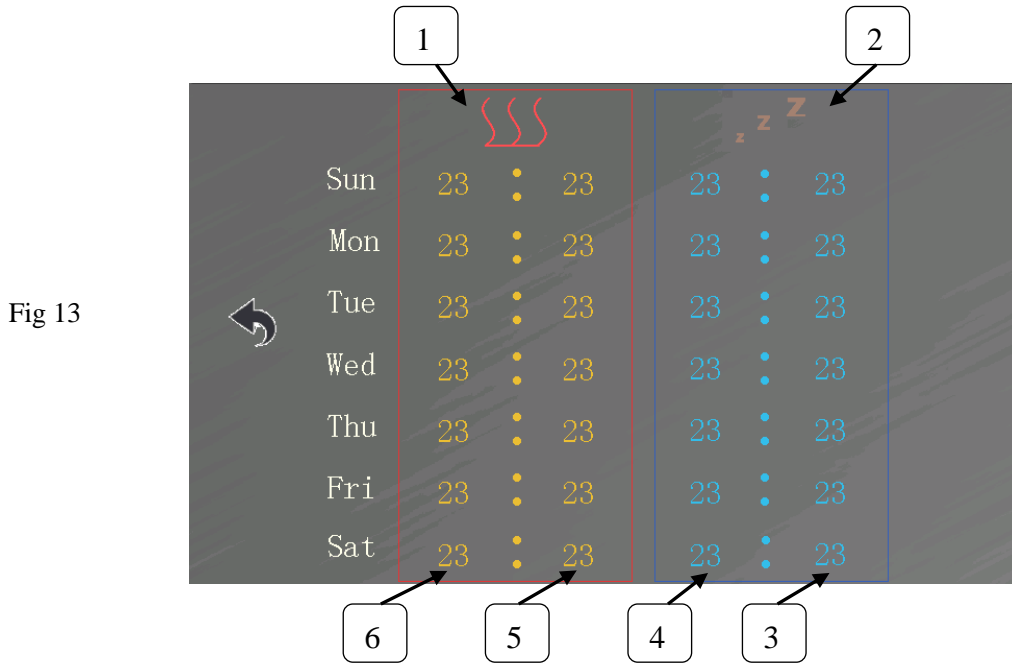


Fig 12

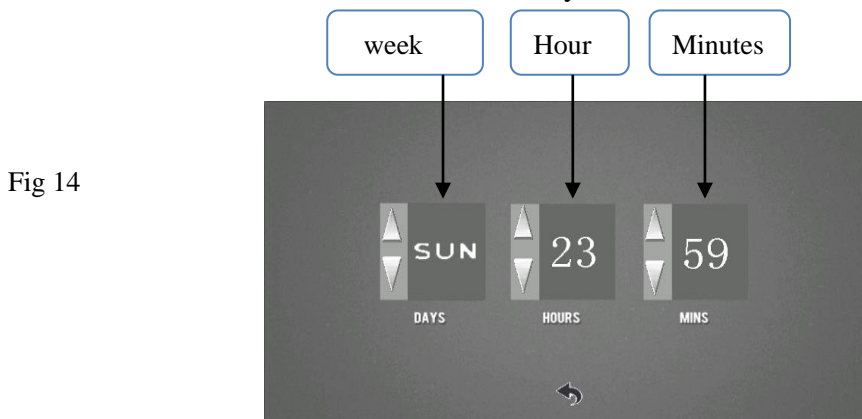
- (2) Time Set: Click the time control and enter the heating time setting interface. Then, set the wake time of heating ON and sleep time of heating OFF daily every week, as shown in Fig13.



In the interface, zone 1 is area for heating on time setting, zone 2 is area for heating off time setting. zone 3 is for minute setting of heating OFF, zone 4 is for hour setting of heating OFF, zone 5 is for minute setting of heating ON, zone 6 is for hour setting of heating ON. It is abbreviation Letter from Sunday to Saturday on the left of this interface

To Set a starting and ending time for a day's work, click in the corresponding figures and input the desired value in the pop-up keyboard, then click "Enter" to save this setting. If it doesn't need to work one day, MUST set "0" for all start and ending time in that day. After the setting, click the black arrow to return to the main control interface.

- (3) Time display: In Fig 12, it shows the current time under the clock. The left letter means week, followed by two numbers indicating hour and minute in the 24-hour time system respectively; Click time display to enter in the time setting interface as Fig 14; The up arrow indicates "+", the down arrow indicates "-", set the desired value by clicking the up or down arrow to increase or decrease the current value to set target. After completing the settings, click the black arrow below to return to the main control interface, where you can see that the current time has been updated.



(4)、Temperature control: Each temperature control bar is divided into three parts : the left part without unit is target setting temperature , the default unit is °C ; The color in the middle part is corresponding with somewhere of the instrument which means the temperature bar controls the temperature of this area ; the right part with unit is actual temperature. If you need to change the set temperature , click the left part and enter the desired temperature value in pop-up keyboard , then click “ enter “ on the bottom right corner , the target temperature is changed . If an embedding reservoir connects two embedding module, the temperature control bar on each side of the touch screen controls the corresponding embedding module separately .

On Fig12 ,the line A temperature control indicates the temperature of each part in module <one> the line B temperature control bar indicates the temperature of each part in module<three> The orange in the top line indicates the temperature of embedding reservoir<two> . Each color indicates the corresponding part as follows(Fig15) :

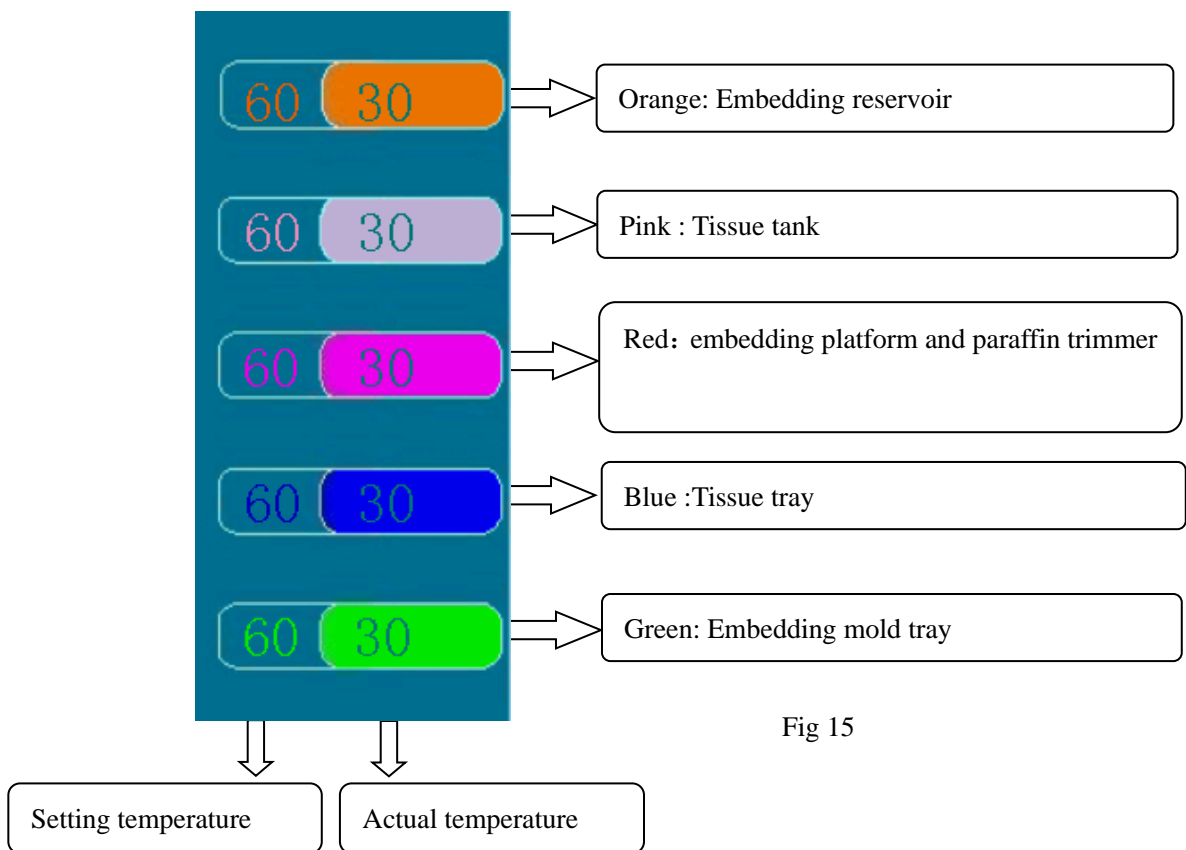


Fig 15

- (5) 、 Temperature Control of Internal Pipeline and electromagnetic valve: Click on the area <one> <two> <three> in Figure 12 to enter the temperature control interface of pipeline and electromagnetic valve, which includes setting and displaying the temperature control parameters of paraffin reservoir and pipeline and valve of embedding center, as shown in Fig 15.

When the lock icon is opened by clicking on the “temperature display and setting switch”, the setting temperature of each part can be changed. When the lock icon is closed again, this interface is only used to display the set temperature and the actual temperature of the part.

When changing the setting temperature, first click on “the temperature display and setting switch” to open the lock icon, then click on the corresponding setting temperature number, pop-up input keyboard, input the temperature value to be set, press the "Enter" key to change the setting temperature.

Click the return button to enter the main interface.

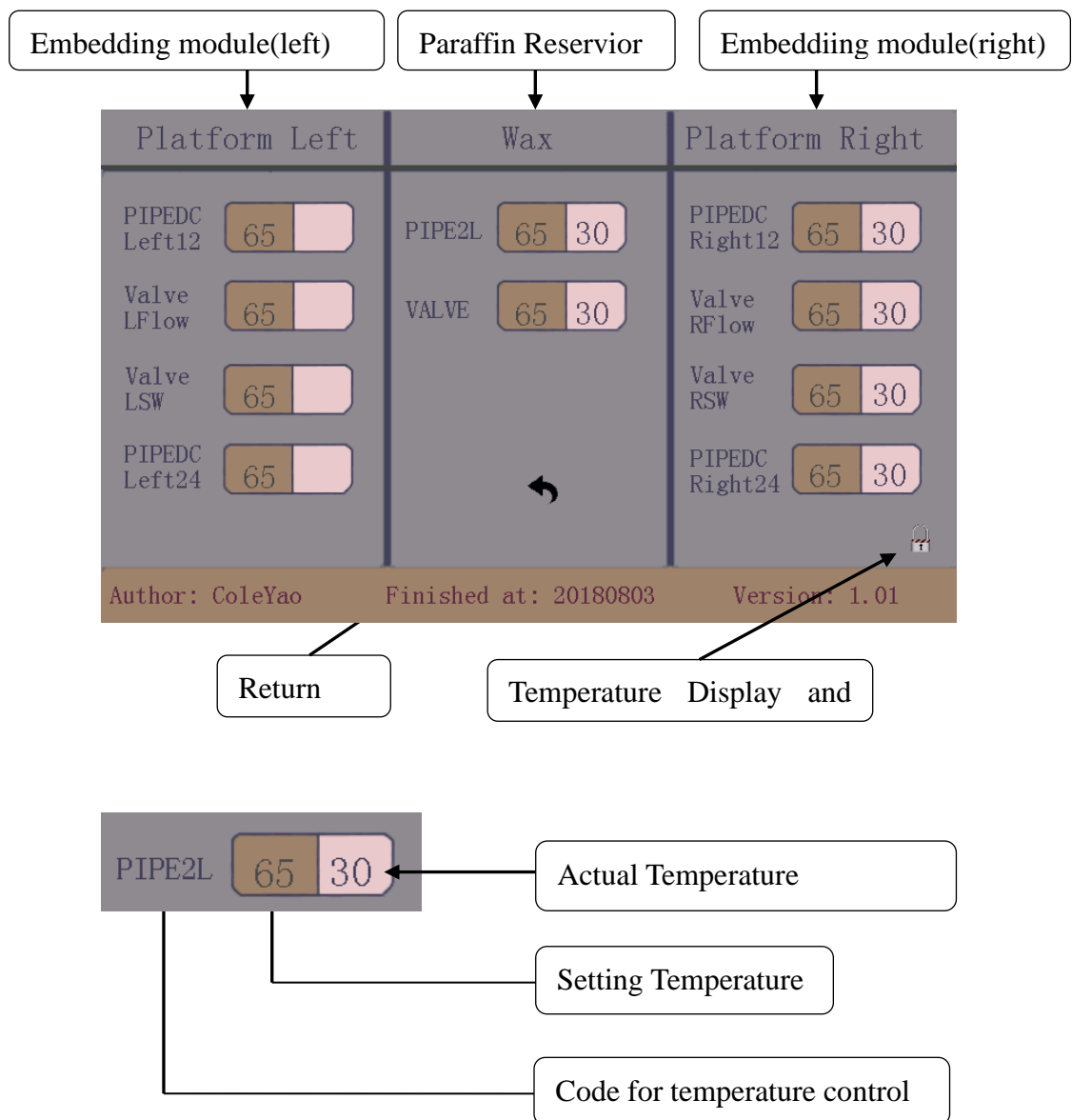


Fig 16

6.2 Operation Instruction

6.2.1 Set start time and day of the week

■ ① Connect the machine to the power supply and turn on the switches of paraffin reservoir and embedding module. Refer to the instructions in section 6.1 to set the real time as shown in Fig 14. The machine automatically retains the time and date settings. Once set, the time and date do not need to be reset, even if the external power supply is turned off and the machine restarts

▲ Attention: The voltage must match the value marked on the nameplate, otherwise it could destroy the electrical system.

6.2.2 view and set workspace temperature

- Observe the temperature control bar on the control screen to check if the temperatures for each part are set correctly. If you need to change a set value, simply click on the corresponding number, enter the desired value on the pop-up keyboard, and press the 'Enter' key."
- Please check the detailed temperature range from section 4.

6.2.3 Set timed heating time

- Click the clock icon on the control screen to bring up the screen shown in Figure 13. In the pop-up screen, set the start and end times for heating each day. If heating is not needed on a particular day, set all the times for that day to '0'."

6.2.4 Usage of tissue tray

- The tissue tray is used for holding tissues while waiting for embedding. Before preparing embedding work each time, check if there is enough paraffin inside. The standard is that the liquid level of the liquid paraffin should not be lower than the height of the basket (50mm); at the same time, ensure that the paraffin is clean to avoid contaminating the tissue.

6.2.5 Usage of embedding mold tray

- The embedding mold tray with constant temperature is used to store embedding molds. Placing the used mold in this type of tray with a constant temperature helps melt the residual paraffin inside, facilitating recycling for future use. Please clean the paraffin from the tray after each embedding work

6.2.6 Instructions for manual and foot pedal wax dispensing

Preparation work before wax dispensing

- Wax melting takes a long time, so it's better to start working only

after the wax is completely melted in order to avoid damaging the electromagnetic valve that controls the flow of paraffin.

■ Before use, empty the wax inside the wax nozzle by pressing the wax dispensing switch for 2-3 seconds. This will clear the wax inside the nozzle.

■ The wax flow rate can be adjusted. Rotate the wax dispensing adjustment knob in the direction indicated next to the knob to adjust the amount of wax dispensed by the nozzle. Once adjustment is complete, tissue embedding can begin.

Manual Wax Dispensing

■ Gently push the manual wax dispensing switch located behind the wax nozzle (you will hear a clicking sound). Paraffin wax will flow out of the nozzle, and it will stop when you release the manual wax dispensing switch.

Foot Pedal Wax Dispensing

■ Insert the plug of the foot pedal switch into the foot pedal switch socket on the back of the instrument. Lightly press this switch, and paraffin wax will flow out. Release the switch to stop the flow.



Fig 17

6.2.7 Usage of forceps holder

■ The bottom of the temperature-controlled forceps holder is designed with wax drainage holes. When forceps with paraffin attached are inserted into the forceps holder, the paraffin on the tips of the forceps quickly melts and drains away, ensuring the cleanliness of the forceps and facilitating their use in subsequent embedding operations.

6.2.8 Usage of LED light

■ Rotating the LED light adjustment knob can turn the LED light on or adjust its brightness.

6.2.9 Usage of Magnifier

■ Screw the bolt on the magnifier frame into the joint of the metal hose. Once connected, adjust the position and angle of the magnifier, and it can be used.

6.2.10 Usage of cold spot

■ Turn on the cold spot switch (See Fig 3); it starts refrigerating and reaches the required operating temperature (usually -5°C to 0°C) within several minutes. This function is designed for users who do not use stainless steel embedding molds.

6.2.11 Usage of paraffin trimmer

■ When the paraffin trimmer is in working condition, place one side of the cassette that needs wax scraping against the surface of the paraffin trimmer's groove area at a certain angle, and slide it along the groove. This action removes excess residual wax, which then melts and flows into the waste wax collection box. The paraffin trimmer is located on both sides of the embedding platform and can be operated with either the left or right hand.

6.2.12 Usage of waste wax tray

■ The waste wax tray is mainly used to collect waste wax from the paraffin trimmer, forceps holder, and embedding platform. Please check if the tray is inserted in the proper position before turning on the power and clear the waste wax after embedding work is complete to avoid overflow due to excessive accumulation of waste wax.

6.2.13 Shutdown procedure

■ After embedding operations, turn off the cold spot and LED light separately by rotating the switches in the indicated direction. Then, tap the switches for the embedding module and paraffin reservoir on the touch screen to turn them off and put the instrument into standby mode. Finally, turn off the power switches and unplug the power cable from the socket. If the device has a timed heating setting, do not turn off the power switches.

7. Trouble Shooting

Type	Problem manifestation	Possible reasons	Judgment method	Solution
Touch screen malfunction	The touch screen does not light up	Not connected to external power supply	Plug in the power supply	Plug in the power supply
		Open fuse	Take out the fuse and measure its internal resistance with a multimeter. Infinity indicates that the fuse is broken.	Replace the fuse
		5V switch power supply without output	Measure the 5V output terminal of the switch power supply using a multimeter in the DC range. If there is no 5V output. Indicates that the switch power supply is faulty.	Replace the 5V switch power supply
	Abnormal or no change in touch screen display	Voltage regulator without output	Measure the 3.3V output terminal of the voltage regulator on the motherboard using a multimeter in the DC range. If there is no 3.3V output. Indicates that the voltage regulator is faulty.	Replace the voltage regulator tube
		Poor contact or open circuit between the touch screen and motherboard communication line causes communication failure	Use a multimeter to measure whether the communication line is open or try replacing it.	Replace communication cable
Buzzer sounds	The touch screen temperature display area displays E1 or E2	The relay controlling the heating on the motherboard is damaged, unable to disconnect the heating, resulting in overheating. Display E2.	Measure the connection port of the heating film main board in the overheated area with a multimeter. If there is continuous output, it indicates that the relay is damaged!	Replace relay
		The temperature sensor is damaged or has poor contact, displaying E1.	Connect the new sensor to the corresponding terminal or reorganize the sensor terminals. Normal startup indicates that the temperature sensor is faulty.	Replace the sensor with a new one or reorganize the sensor terminals.
Inaccurate display of panel time	Inaccurate time display	Clock chip faulty	If the timing is accurate, the time still runs inaccurately.	Replace the clock chip
The working area is not	The wax tray is not heated, the tissue	Damaged heater	Measure the output resistance of the heating device with a multimeter. If there is an open circuit, it indicates that the heater is	Replacing the heater

heated	tray ,the paraffin trimmer and work platform are not heated , the forcep holder, the embedded mold storage tray not heated, and the pipeline n ot heated.		faulty.	
		Temperature setting error, set temperature below room temperature.	View the set temperature value of the corresponding part	Reset temperature
The wax nozzle does not produce wax	Pipeline not heated	The heating wire in the pipeline is burnt out or the heating film of the solenoid valve is damaged	Measure the output resistance of the heating device with a multimeter. If there is an open circuit, it indicates that the heater is faulty.	Replace heating film
	Heating the pipeline without wax production	The solenoid valve has no action and the coil is burnt out	The solenoid valve has no sound. Use a multimeter to measure the resistance of the solenoid valve coil. If there is an open circuit, it indicates that the solenoid valve is faulty	Replace the solenoid valve coil
		The flow control valve is in the closed state		Turn the adjustment knob counterclockwise 6-8 turns to open it
		The filter screen at the wax cylinder outlet is blocked or has bubbles		Remove the filter for cleaning or allow bubbles to escape
LED light does not light up	Knob switch abnormality	Knob switch damaged	Measure with a multimeter. If there is an open circuit, it indicates that the knob switch is faulty	Replace the knob switch
	Damaged LED bulb	Damaged LED bulb	Measure with a multimeter. If the circuit is normal, it indicates that the LED bulb is faulty	Replacing LED bulbs
Cold spot not cooling	Switch abnormality	Damaged switch	Measure with a multimeter. If there is an open circuit, it indicates that the switch is faulty	Replace switch
	Cold spot not cooling	Damaged cooling plate	Measure with a multimeter. If there is an open circuit, it indicates that the cooling plate is damaged	Replace the refrigeration plate
Wax leakage and seepage	Wax t r a y leaking wax	There are pores at the welding point of the wax t r a y		Replacing the wax tray

If the above solution still cannot solve the problem, please contact the manufacturer's after-sales department!

8. Clearance & Maintenance

8.1 Cleaning of instrument

Cleaning of instrument appearance

- Gently wipe off fingerprint marks and dust on the touch screen with a neutral damp cloth. It is strictly prohibited to hit or scratch the screen surface with hard objects
- Clean the dust on the outer surface of the instrument with a dry cloth, use a neutral damp cloth to clean frequently touched areas, and use a small shovel to clean residual wax from the waxing area on the platform; Timely clean the condensate on the refrigeration positioning table.

Paraffin tank Cleaning

- Before replacing the wax, please clean the old wax and impurities inside the wax cylinder. If any bubbles are found in the filter at the wax outlet of the wax cylinder, they should be removed to prevent wax blockage.

Tissue tray and embedding tray Cleaning

- Tissue tray and embedding tray are frequently used components, so it is necessary to clean the impurities and residual wax inside.

Cleaning of the surface of the manual wax removal switch and adjustment knob

- The panel and adjustment knob of the manual wax removal switch are frequently touched by hands, so it is necessary to clean stains.

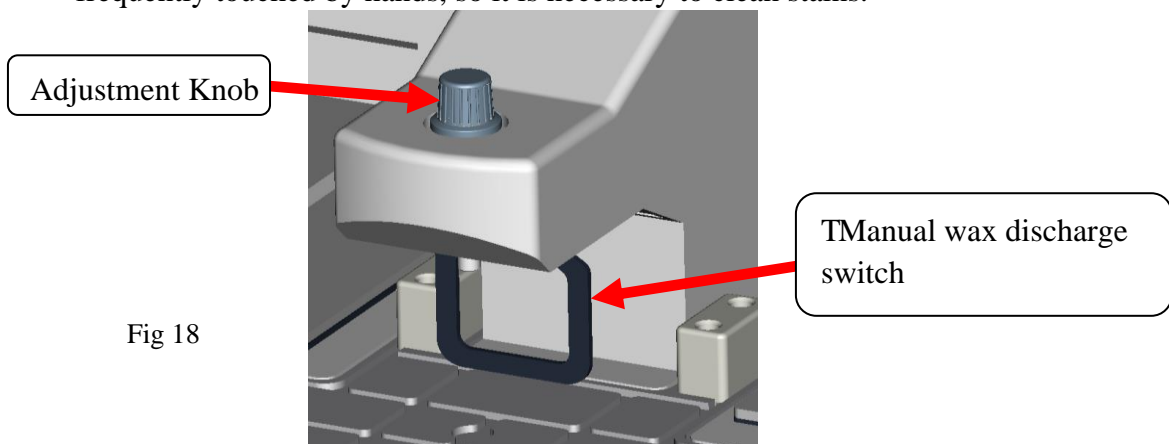


Fig 18

Waste wax tray Cleaning

- During each embedding operation, the waste wax tray will collect some paraffin, which needs to be cleaned immediately to prevent excessive paraffin from accumulating and overflowing from the waste wax tray.

8.2 Maintenance

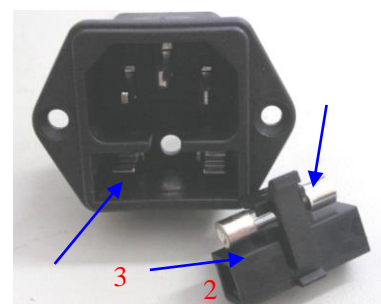
Paraffin tank maintenance

- The filter screen at the wax outlet in the wax cylinder should be regularly checked for damage, and if there is any damage, it should be replaced in a timely manner.

Fuse replaced

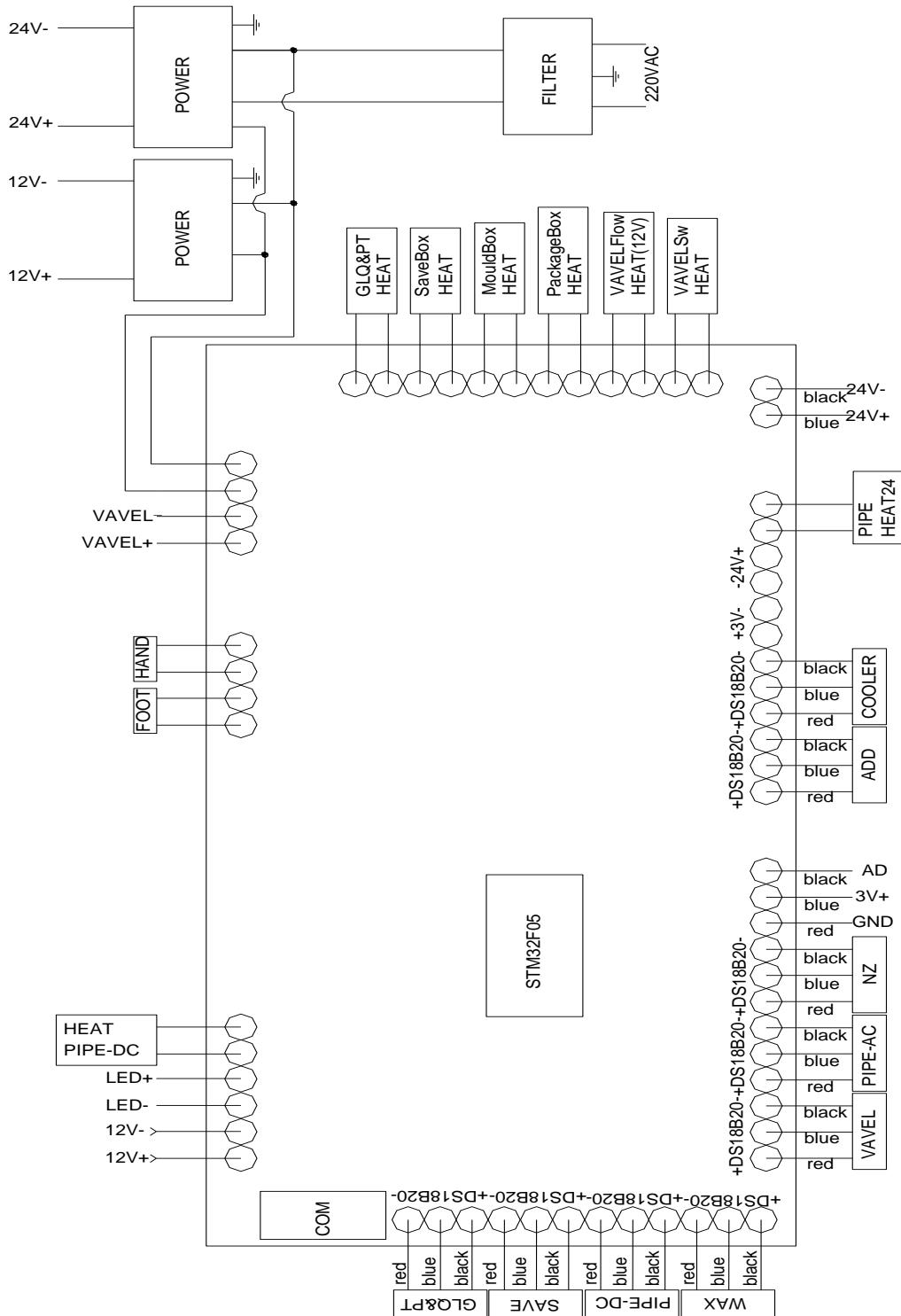
- Insert the fuse (1) into the fuse socket (2) as shown in the Fig19. Then insert the whole fuse socket into the socket (3). Before replacing the fuse, it is necessary to cut off the power supply and unplug the power cord.

Fig 19

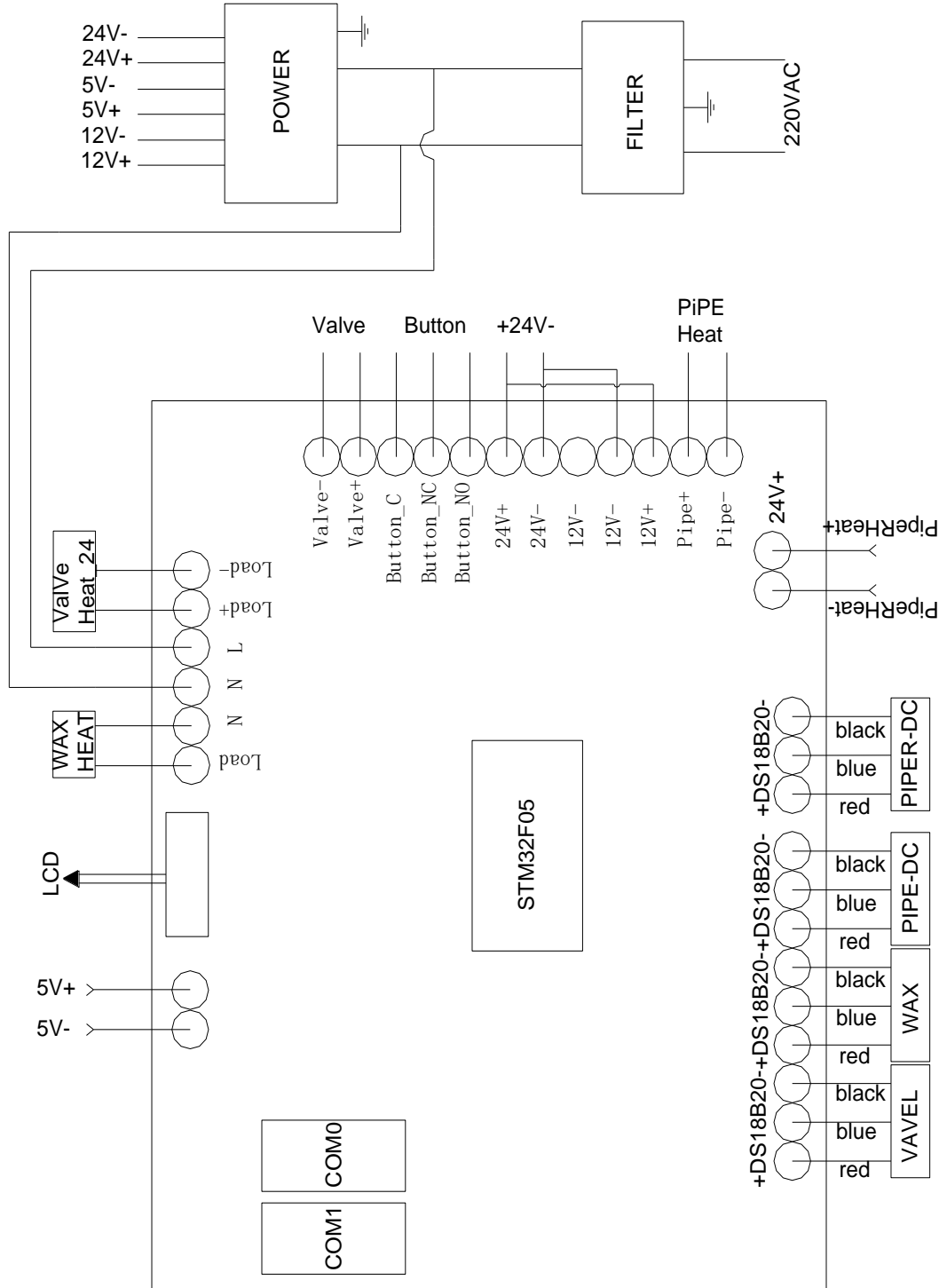


9. Instrument Diagram

AEC 380-M Embedding Module(platform)



AEC 380-PR Paraffin Reservoir



Standard configuration list

Combination 1 :

AEC 380-PR Paraffin Reservoir connects one piece of AEC 380-M Embedding Modul .

No	Item Name	Qty	Notes
1	AEC 380-PR	1 unit	
2	AEC 380-M	1 unit	
3	Power Cord	2 pcs	
4	Serial cable	1 pc	
5	Connection board	1 pc	
6	Connection tube	2 pcs	For Left or Right connected
7	Fuse(3A)	2 pcs	
8	Fuse(5A)	2 pcs	
9	Operation Manual	1pc	
10	Foot Switch	1pc	
11	Magnifier	1pc	

Combination 2 :

AEC 380-PR Paraffin Reservoir connects two pieces of AEC 380-M Embedding Module.

No	Item Name	Qty	Notes
1	AEC 380-PR	1 unit	
2	AEC 380-M	2 units	
3	Power Cord	3 pcs	
4	Serial cable	2 pcs	
5	Connection board	2 pcs	
6	Connection tube	2 pcs	
7	Fuse(3A)	2 pcs	
8	Fuse(5A)	4 pcs	
9	Operation Manual	1pc	
10	Foot Switch	2 pcs	
11	Magnifier	2 pcs	

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