

Lead Free Soldering Pot

INSTRUCTION MANUAL



Thank you for purchasing the Lead Free Soldering Pot. Please read this manual before operating the unit. Store this manual in a safe, easily accessible place for future reference.

1. Safety Instruction

The “WARNING” and “NOTE” are defined as followings:

△WARNING: misuse the unit may cause death or grievous bodily harm.

Please strictly abide the safety instruction for protecting the people from shocking or firing or bodily harm.

△NOTE: misuse the unit may cause body flesh wound or mangling the other objects. Please strictly abide the safety instruction for protecting the people from shocking or firing or bodily harm.



- Please read this operation manual before operating the unit for avoiding the accident.
- The unit must use three grounding cord and socket for good grounding, including the prolonging power cord.
- Do not use the unit to other task except to melt the soldering tin.
- Before taking out the pot, it must unscrew the five screws fixing the soldering pot at the bottom of the unit.
- The maximal temperature can be up to 450°C, please pull out the power socket when changing some parts of the unit after it has cooled down.
- Do not use the unit near the flammable gas and the other flammable materials.
- The unit must be put on the flat workbench and not incline it when working. Make sure the workbench is heat resistant.
- When using the unit, do not do some action may be harmful to the body or damage the other objects.
- The unit will be very hot during using and do not touch the metal parts before the unit cooling down.
- When moving the unit, it must switch off the power supply and the unit has cooled down.
- Please do not make bold to change the unit.
- It is an electro thermal unit with high temperature. When the unit is not in using for a period of time, it must switch off the power supply.



NOTE

- No leave the unit at side when it is still highly hot and has not other persons at side for avoiding accident.
- No use the unit in the damp surrounding or with moist hand for avoiding accident.
- No use the unit with the broke power cord.
- When the temperature is above 300°C, it will oxide the soldering tin and shorten the life of the unit. Use the unit at the as lower temperature as possible.
- The unit must maintain by the special persons when it in malfunction. Or else, you can contract with our company or the agent.

2. Characters

- Closed-loop sensor controls the temperature and zero triggering without interfering with the voltage.
- With digital calibration and temperature adjusting.
- It can set the work time (off time setting).
- With the special metal (anti-erosion and heat-resistant) and putting into service for lead free life is long.
- Heating speed is rapid and the temperature is stable and accuracy.
- The structure is smart and in reason. And the usage is easy.


3. Specifications

Power:	600W
Size of the pot:	98*121*58(H)mm
Temperature range:	100°C~450°C
Work time range:	0~999hours
Temperature stability:	±1°C
Weight:	4.35kg(including power cord)
Dimension:	200(L)*330 (W)*110 (H) mm

4. Parts

Name	Quantity	Order
Unit	1	46657
Slag holder	1	43309
Slag remover	1	43310
Operation manual	1	
Warranty card /pass card	1	

5. Operation

 **Warning: the using voltage must be identical with the rate voltage of the scutcheon.**


- 1) Put the s on the flat workbench, which is heat-resistant or put a metal plate under the soldering pot.
- 2) Put condign soldering tin to the pot. The lowest lever of the soldering tin must be higher than the sensor's bottom and the highest lever must be below the pot's top edge 10mm.
- 3) Connect with the three wire-grounding socket.
- 4) Turn on the power knob and then the unit comes to heat. At the time, the LED displays "real temp " and "set temp".
- 5) Press "▲" or "▼" key to adjust the temperature (set temp).
- 6) It needs spend some times to melt the soldering tin, such as ten minutes from 25℃ to 300℃. It can put into service when the soldering tin has melted and the LED indicator (a sun mark) is not twinkle. If there are some oxides floating on the surface, it must clear off the oxides and keep the soldering tin clean.
- 7) It must turn off the power switch to cool the unit after work is over.
- 8) **Off time setting:** turn off the power switch. press "▲" and "▼" keys simultaneously and not loosely, and then turn on the power supply again and the LED displays "off time" and the current setting work time. Pressing "▲" or "▼" key can adjust the work time. Pressing "*" key, the LED displays the accumulative working time.

6. Temperature calibration


It should be recalibrated after changing the pot or replacing the heating element.

- 1) Set the temperature of the unit to 300°C.
- 2) When the temperature of the unit stabilizes, dip the outer temperature sensor of the thermometer into the pot and view the value when the temperature of the thermometer stabilizing.
- 3) If the value of the thermometer's temperature is not 300°C, calibration the temperature. Press “▲”, “▼” and “*” keys at the same time to the calibrating state. the LED displays “cal temp” and “set temp”. Write into the temperature of the thermometer and then press “*” to the work state.
- 4) If the temperature still has some departures, you can repeat calibration in according with the above steps.
 - *Suggest test the temperature with the 191/192 thermometer.*

7. Maintenance

 **Note: when the heater or the sensor has been in malfunction, it must maintain by the special person or contract with our company or dealer.**

A. Judge the heater element or the sensor has been in malfunction as the following:

- 1) : If the LED displays “S-E” and the unit alarms, it means the sensor or the sensor circuit has been in malfunction. The circuit to the pot is cut off.
- 2) If the setting temperature of the unit is high but the soldering tin's temperature in the pot still is about room temperature after heating a period of time. At the moment, it can judge the heater element is in malfunction.

B. Because the pot may be eroded after using a period of time, it must check the pot periodically.

Suggest: * If using lead soldering tin, it should check at least one time each year (as the setting temperature is 250°C and the work time is five days each week and eight hours every day).

* If using lead-free soldering tin, it should check at least one time each half-year (as the setting temperature is 250°C and the work time is five days each week and eight hours every day).

C. Change the pot

- 1) Turn off the power supply and take out the sensor from the melting tin and then do not take out the pot until the unit has cooled down.
- 2) The pot is fixed by the five screws at the back of the unit (as the following picture). Unscrew the five screws and then take out the pot from the upside and then change a new pot as the opposite order.

