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Pre-heater  
Temperature Adjustable & Controlled

# OPERATION INSTRUCTION

946D IV  
English



Made in China

Select the corresponding logo  
according to the nameplate.

● This product should not be thrown in the garbage. In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected & returned to an authorized recycling facility.  
● Dieses Produkt darf nicht in den Müll geworfen werden. Gemäß der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer gesammelt und an eine autorisierte Recyclinganlage zurückgegeben werden.  
● Ce produit ne doit pas être jeté à la poubelle. Conformément à la directive européenne 2012/19/UE, les équipements électroniques en fin de vie doivent être collectés et renvoyés à une installation de recyclage autorisée.  
● Questo prodotto non deve essere gettato nella spazzatura. In conformità alla direttiva europea 2012/19/UE, gli apparecchi elettronici giunti a fine vita devono essere raccolti e restituiti a un impianto di riciclaggio autorizzato.  
● Este producto no debe ser arrojado a la basura. De acuerdo con la directiva europea 2012/19/UE, los equipos electrónicos al final de su vida útil deben ser recolectados y devueltos a una instalación de reciclaje autorizada.

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

## IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be followed including the following:

## CAUTION!!! WARNING!!!

Read instruction manual before using.

1. To provide continued protection against risk of electric shock, connect to properly grounded outlets only.
2. Do not immerse in water.
3. Hot Surface. Avoid Contact.
4. Shock Hazard. To provide continued protection against electric shock disconnect from the power supply when not in use.
5. Heat gun, soldering iron, desoldering iron must be placed on its stand when not in use.
6. HOUSEHOLD AND INDOOR USE ONLY.
7. To prevent electric shock, unplug before replace the fuse and other service.
8. Replace only with same type and rating of fuse.
9. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
10. Children should be supervised to ensure that they do not play with the appliance.
11. The soldering iron and desoldering iron is only to be used with the power supply unit provided with the appliance.
12. If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
13. Any servicing should be performed by an authorized service representative AND that the product has no user serviceable parts.
14. To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. Store indoors. Read instruction manual before using.

15. A fire may result if the appliance is not used with care, therefore
  - be careful when using the appliance in places where there are combustible materials;
  - do not apply to the same place for a long time;
  - do not use in presence of an explosive atmosphere;
  - be aware that heat may be conducted to combustible materials that are out of sight;
  - place the appliance on its stand after use and allow it to cool down before storage;
  - do not leave the appliance unattended when it is switched on.
16. To ensure personal safety, please turn off the power switch after work is completed; When not in use for an extended period, please unplug the power cord!!!
17. The soldering iron should only be used for soldering. Do not hit the soldering iron against the work surface to remove flux residues (Can be cleaned by the cleaning device of the product), as doing so may seriously damage the soldering iron.
18. Soldering produces fumes, ensure there is adequate ventilation.
19. After used, remember that cooling the unit, the handle should be placed on the handle holder.
20. When using the brass wool tip cleaner (rosin-inside), DO NOT inhale the fume generated or consume the solid-state rosin, DO NOT allow your skin and eyes to get in direct contact with the rosin.
21. If a long detachable power-supply cord is used:
  - 1) The marked electrical rating of the detachable power-supply cord or extension cord should be at least as great as the electrical rating of the appliance;
  - 2) The extension cord should be a grounding type 3-wire cord;
  - 3) The longer cord should be arranged so that it will not drape over the countertop or tabletop where it can be tripped over, snagged, or pulled on unintentionally (especially by children).
22. A short power-supply cord(or short detachable power-supply cord)is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.

## SAVE THESE INSTRUCTIONS

## I. Specification

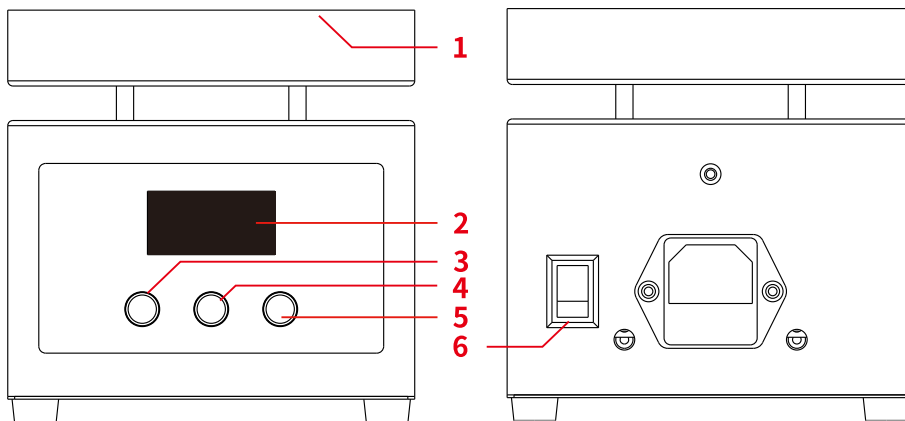
Model	946D IV
Rated Voltage	220V~240V
Rated Frequency	50Hz
Rated Power	210W
Main Unit Dimensions	L75xW118xH120mm ±5mm
Operating Ambient Temperature	0°C~40°C/32°F~104°F
Dimensions (Aluminum Panel)	L100xW50mm ±3mm
Temperature Range	50°C~400°C/122°F~752°F
Display	LED Nixie Tube
Panel to Ground Resistance	<2 Ohms
Temperature Control	PID Temperature Control & Stabilization Program

## II. Applications

Suitable for desoldering LED diodes and small SMD components, as well as preheating PCBs, smartphone screens, and metal parts.

## III. Control Panel

1. Aluminum Panel
2. Temperature Display (Aluminum Panel)
3. Temperature Decrease Button
4. Function Button
5. Temperature Increase Button
6. Power Switch



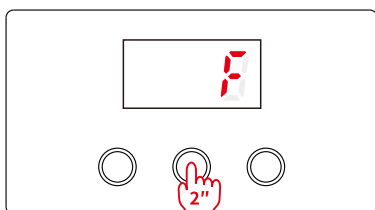
## IV. Operation

1. Connect the separator's power cord to an electrical outlet.
2. Turn ON the power switch, set the desired temperature and the pre-heater is ready for use.
3. When the operation is complete, turn OFF the power switch. If the station is not in use for an extended period, DISCONNECT the power plug.

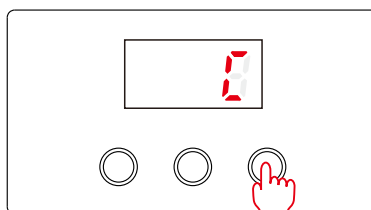
**Warning:** Do NOT touch the aluminum panel or the station's case while the aluminum panel is heated to avoid potential burn injury.

### 4. °F or °C Temperature Display

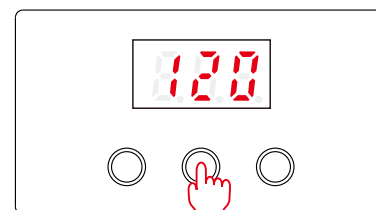
4.1 Turn ON the power switch. Press and hold the function button for approximately 2 seconds and the display will show "C" or "F".



4.2 Press the temperature increase or temperature decrease button to select either the Fahrenheit or Celsius display mode.



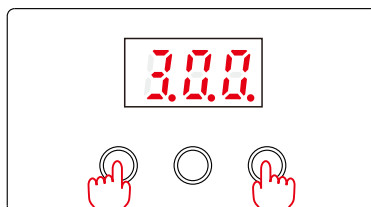
4.3 Press the function button once again to confirm the entry and exit the interface.



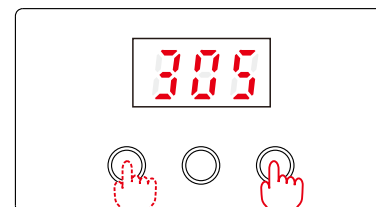
### 5. Digital Temperature Calibration

5.1 When the temperature has stabilized, press and hold both the temperature increase and temperature decrease buttons for approximately 2 seconds. The temperature display will show the set temperature and three dots.

5.2 Press the temperature increase or temperature decrease button to enter the measured temperature.



5.3 Press and hold both the temperature increase and decrease buttons simultaneously for approximately 2 seconds to confirm entry. The system saves the data and exits the setting interface – Setting complete.



## V. Maintenance & Precautions

DO NOT knock any object against the aluminum panel especially when the panel is heated.

## VI. Troubleshooting

The operation indicator stays ON but the heating element is not heating up – This is an indication that the heating element is malfunctioning. To resolve this issue, you need to replace the heating element.