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THE HIGH-TECH POPULARIZER

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Made in China

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INSTRUMENTS

AT850D SMD Rework Station

Operating Instructions

SHENZHEN ATTEN ELECTRONICS CO., LTD.

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Thanks for using our products, please read this manual thoroughly before operation.

Specification

Power Voltage	220V AC
Power Consumption	560W(Max.)
Pump	Diaphragm Pump
Capacity	23L/ min (Max.)
Hot Air Temperature	100℃ to 480 ℃
Outer Dimensions	187(W)× 135(H)×245(D)mm (7.4×5.3×9.6 inches)
Weight	4.5kg (9.9 lbs)

Usage

Suit for most desoldering of SMD, such as SOIC, CHIP, QFP, PLCC, BGA etc.

Adjust the Temp knob, the setting temperature will indicate on the panel; while keeping press the red key *(Red Temp)*, it will indicate the current temperature of the output airflow.

Indicator flickers when heating, and it goes off when the temperature has reached to the setting one.

Before Operation

1. Select the Nozzle that matches the size of the IC.
Attach the Nozzle when both the Pipe and the Nozzle are cool. Should either be warm, check to make sure that the Temperature Control Knobs set to1.

2. Loosen the screw on the Nozzle.

3. Attach the Nozzle.
Do not force the nozzle or pull on the edge of the Nozzle by pliers. Also, do not re-tighten the screw too tightly.

Operating Instructions

QFP De-soldering

1. Plug the power cord into the power supply.
After connection, the automatic blowing function will start sending air through the pipe, but the Heating Element remains cool.

2. Turn the Power switch on.
The Power Switch may be turned on at any time while the automatic blowing function is operating. Once the Power Switch is turned on, the Heating Element will begin to warm up.

3. Adjust the Air Flow and Temperature Control Knobs.
After adjusting the Air Flow and Temperature Control Knob, wait for the temperature to stabilize for a short period of time.

4. Melt the solder.
Hold the iron so that the Nozzle is located directly over, but not touching the IC and allow the hot air to melt the solder. Be careful not to touch the leads of the IC with the Nozzle.

5. Remove the IC.
Once the solder has melted, remove the IC by lifting the plier.

6. Turn the Power Switch off.
After the Power Switch is turned off, an automatic blowing function begins sending cool air through the pipe in order to cool both the heating element and the handle. So do not disconnect the plug during this cooling process. In case you don't use the unit for a ling time, disconnect the plug.

***Note:** After turn off the Power Switch of about 1minute later, power is automatically shut off.*

7. Remove any remaining solder.
After removing the IC, remove remaining solder with a wick or de-soldering tool.

***Note:** In case of SOP, PLCC, desolder it by using tweezers, etc.*

QFP Soldering

1. Apply the solder paste.
Apply the proper quantity of solder paste and install the SMD on the PCB.

2. Preheat SMD.
Refer to the photo to preheat SMD.

3. Soldering
Heat the lead frame evenly.

4. Washing
When soldering is completed, wash away the flux.

***Note:** While here is a merit to solder by Hot air, it's also possible to cause the defects such as solder balls, older bridges. We recommend you to examine the conditions of soldering sufficiently.*

Precautions

1. Before attach the nozzle, make sure that both the heating tube and the nozzle are cool down.

2. Caution High Temperature Operation
Do not use the unit near ignitable gases, paper, or other inflammable materials. Both the nozzle and the heated air are extremely hot and can cause painful burns. Never touch the heater pipe or allow the heated air to blow against your skin. Initially, the iron may emit white smoke, but this will soon disappear.

3. After use, be sure to cool the unit.
After turning off the power switch, the unit will automatically blow cool air through the pipe for a short period of time .Do not disconnect the plug during this cooling process.

4. Never drop or sharply joint the unit.
The pipe contains quartz glass, which can break if the unit is dropped or jolted sharply.

5. Do not disassemble the pump.

6. Disconnect the plug when you don't use the unit for a long time.
When the power cord is connected into the power supply, the unit has a little flow of electricity, even the Power Switch is in off position. So when you don't use the unit for a long time, disconnect the plug.

Replacing the Heating Element

1. Remove the screws, slide the tube.
Remove the 3 screws, which secure the Handle and slide the cord tube.

2. Open the Handle.
Disconnect the ground wire sleeve and remove the pipe. In the pipe. The quartz glass and heat insulation is installed. Do not drop or miss it.

3. Remove the Heating Element.
Disconnect the terminal and remove the Heating Element.

4. Insert a new Heating Element.
Handle it with care. Never rub the Heating Element wire. Insert a new Heating Element and reconnect the terminal. Reconnect the ground wire after replacing the element. Assemble the Handle in the reverse order of disassembly. Insert the Handle's projection into the hole in the pipe.

Interchangeable Parts:

Number	Name	Specifications
1144	Heating Element	100V/ 250W
1146	Heating Element	220~240V/ 250W
1144A+	Heating Element	100V/ 250W
1146A+	Heating Element	220~240V/ 250W

AT850D SMD Rework Station:

