

# Soldering & Rework Station



## Features:

- Closed loop control of sensor, accurate and stable temperature, which can safely desolder the temperature-sensitive components, such as QFP, PLCC, SOP, BGA and so on Intelligent cooling system, Delay blast after operation, automatic power off when air temperature is less than 100°C
- Original imported heating element, rapid warming, and long life, and good welding safety performance, constant and adjustable temperature
- Original imported air pump, low vibration, noise design, which can make the workplace quiet
- Anti-Static design to avoid bringing damage to PCB board due to static and creepage

## Apply:

R and D  
production  
lab of scientific research

## Specifications:

Input voltage	: 110V / 220V AC optional
Maximum power consumption	: 550W
Air pump	: Diaphragm
Volume	: 23L / min (max)
Temperature	: 100°C to 480°C
Dimension	: 224mm (L) × 126mm (W) × 110mm (H)mm

## 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 to 1
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:

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 long time, disconnect the plug
7. Remove any remaining solder. After removing the IC, remove remaining solder with a wick or desoldering tool

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



## 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. 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

## Part Number Table

Description	Part Number
Rework Station, 560W, 220V, EU	21-10125 EU
Hot Air Station, 550W, 220V, UK	21-10125 UK

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