

8032

HANDHELD HOT GUN

INSTRUCTION MANUAL

With turbine motor to generate natural and soft whirly air, temperature is concentrated on the to-be-desoldered elements, avoiding the problem of air volume fluctuation with conventional diaphragm type.

Predict summary

1. Specification

Power supply **220V/110V**

Power **420W**

2. Replacing the Heating Element

NO	NAME/ SPECIFICATION
A1143	100V/25W Heating Element
A1144	110V/250W Heating Element
A1145	120V/250W Heating Element
A1146	220V240V/250W Heating Element

3. Function

- Swiss technology, a grand innovation of disordering industry a breakthrough
From traditional model 850 with air pump for air supply, uses national air to
Achieve even hot air, specially applicable for disordering of screening
Cover of mobile, BGA,SMD and other electronic parts.
- UP circuit, precision control for temperature and air volume wide range of
linear adjustment.
- Designed by small and exquisite, with many functions saves working
Space, easy to carry.
- Static defense prevent the fault of PCB from static and leak electricity
- The situation of moving accessories or accessories are over heated could be
Avoided by the method that to weld without touch the welding point
- The temperature and airflow could be adjusted in a wide rage, is applied to
QFP and SOP type IC, According to the application different type of nozzle
Could be selected to weld or remove the solder.
- The nozzle is in same quality with international brand.

Precautions

1. 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.

- 1. After use, be sure to cool the unit.**
- 2. Never drop or sharply jolt the unit.**
- 3. Do not disassemble the machinery.**
- 4. 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.

Attaching the NOZZLE

- 1. Loosen the screw on the Nozzle.**
- 2. Attach the Nozzle as shown in the drawing.**
Do not force the edge of the Nozzle by pliers, Also don't Retighten the screw too tightly.

Operating Instructions

QFP Disordering

- 1. plug the power cord into the power supply.**
- 2. Turn the power switch on.**
- 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 , refer to the temperature distribution chart, for your reference, we recommend you to adjust the temperature around 300 to 350℃, as for air flow in case of single nozzle, never set the temperature control knob to higher than 6.**
- 4.Place the FP Pick-up under the IC lead slip the FP Pick-up while under the IC lead, if the width of the IC Does not match the size of the FP Pick-up, adjust the width of the wire by suppressing the wire.**

5. 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.

6. Remove the IC

Once the holder has melted, remove the IC by lifting the FP Pick-up.

7. After disordering, turn the air volume to the max and the temperature to The min, and blow for a few minutes to cool down the elements so as to Protect the elements

8. Turn the Power Switch off

9. Remove any remaining solder

After removing the IC, remove remaining solder with a wick of disordering Tool.

Note: In case of SOP, PLLCC, decoder 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 PWB.

2. Preheat SMD

Refer to the photo to preheat SMD.

3. Soldering

Heat the lead frame evenly.

4. Washing

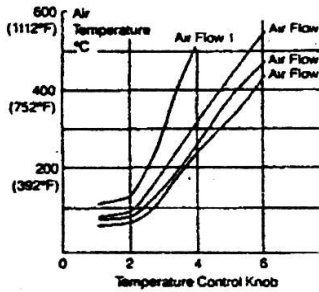
When soldering is completed, wash away the flux.

Note: While there is merits to solder by hot air, it's also possible to cause the defects such as solder balls, solder bridges. We recommend you to examine the conditions of soldering sufficiently.

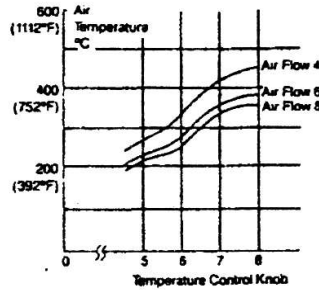
Temperature Distribution Chart

Test criteria: (A1124-A1129) Measured at the point 3mm
from the Nozzle by recorder. Room Temperature 23°C (73.4°F)

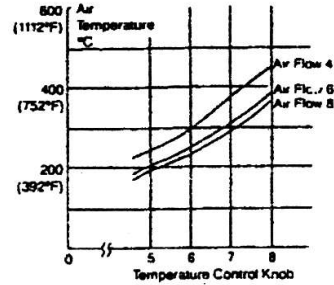
A1124 [Single $\phi 2.5$ (0.09 in)]



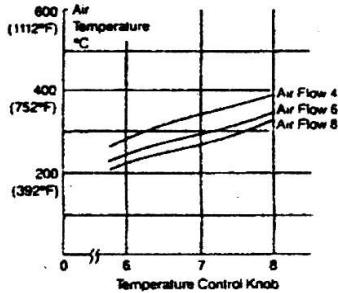
A1125 (QFP 10 × 10)



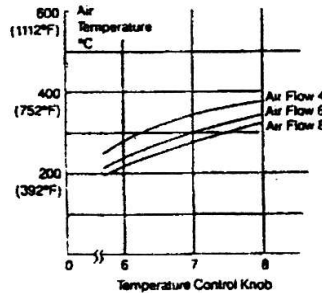
A1126 (QFP 14 × 14)



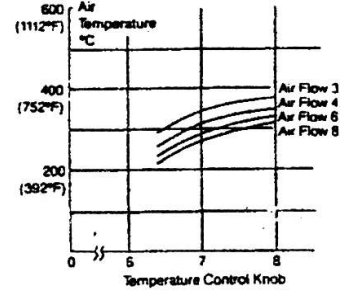
A1127 (QFP 17.5 × 17.5)



A1128 (QFP 14 × 20)

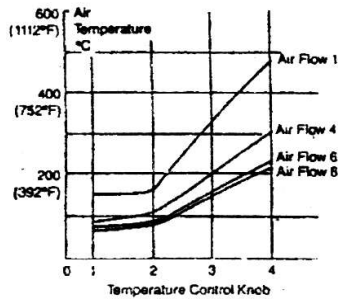


A1129 (QFP 28 × 28)

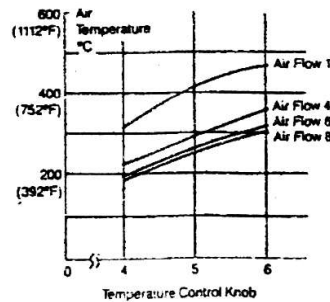


Test criteria: (A1130-A1142) Measured at the point 3mm
from the Nozzle by recorder. Room Temperature 21°C (67°F)

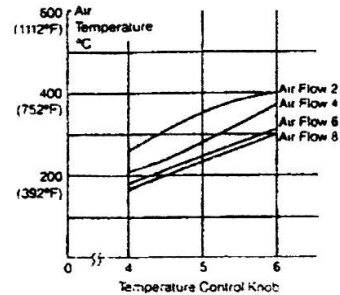
A1130 [Single $\phi 4.4$ (0.17 in)]



A1131 (SOP 4.4 × 10)

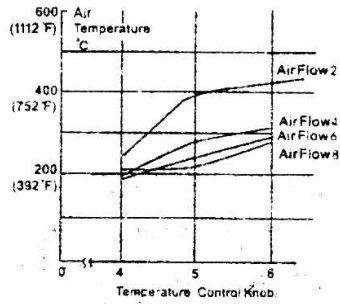


A1132 (SOP 5.6 × 13)

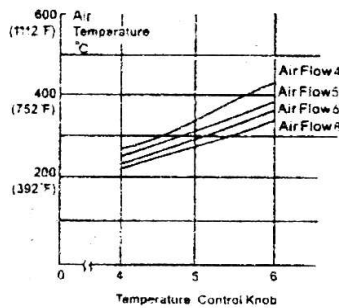


Test criteria: Measured at the point 3mm from the
Nozzle by recorder. Room Temperature 21°C (67°F)

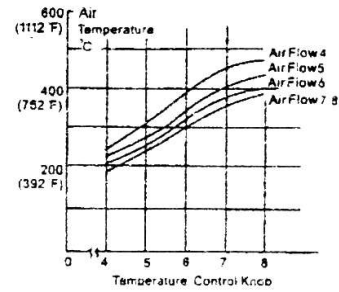
A1133 (SOP 7.5X15)



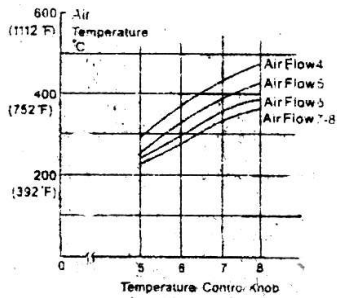
A1134 (SOP 7.5X18)



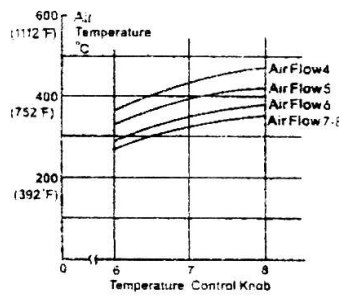
A1135 (PLCC 17.5X17.5)
(44 Pins)



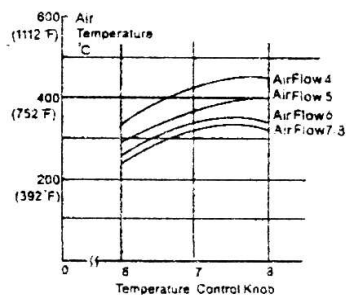
A1136 (PLCC 20X20)
(52 Pins)



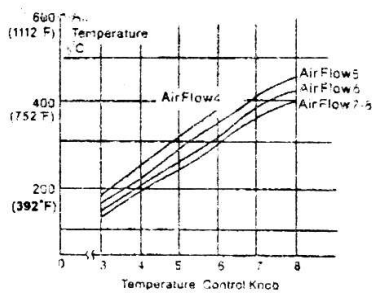
A1137 (PLCC 25X25)
(68 Pins)



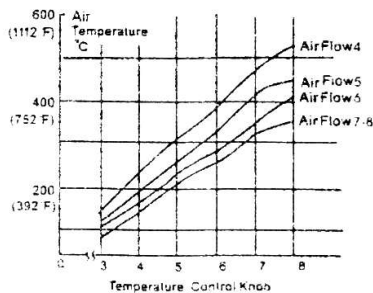
A1138 (PLCC 30X30)
(84 Pins)



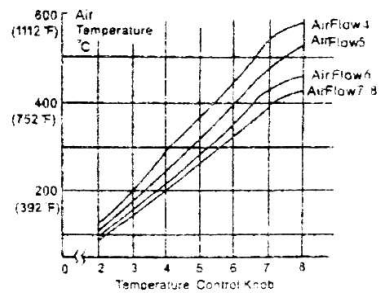
A1139 (PLCC 7.3X12.5)
(18 Pins)



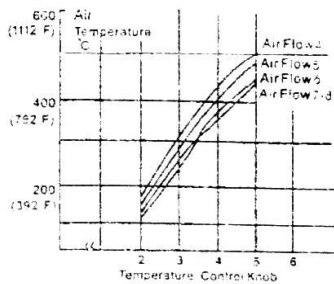
A1140 (PLCC 11.5X11.5)
(28 Pins)



A1141 (PLCC 11.5X14)
(PLCC 32 Pins)



A1142 (Bent Single 1.5X3)



CAUTION: These charts are for reference, if the thermal protector trips, reduce the temperature setting or increase the air flow.

Specifications

Name

The specifications written here may be subject to change without notice.

Station

Power	20W (When the Power
Consumption	Switch is "OFF" 2W)
Pump	diaphragm pump
Capacity	23L/min (max)
Outer	φ4.2*26(H) cm
Dimensions	(7.36*5.31*9.64mm
Weight	0.65kg (approx.) (8.81lb)

Replacement Parts

No.	Name
A1146	220V/240V/250W Heating Element
B1138	FP Pick-up (with (S) (L) Wire)
B1139	FP Pick-up Wire (S)
B1140	FP Pick-up Wire (I)

Iron

Power	100,110,220-240V/250W
Consumption	120V/260W
Hot Air	100~420°C(212~788 °F)
Temperature	(Use A1126)
Length	196mm(7.7in)
Weight	120g (0.26lb)

Option parts mm(inch) * The size in Name /Specification indicates the size of IC package.

Replacing the Heating Element

Remove the 3 screws which secure the handle and slide the cord tube.

Open the handle.

Disconnect the ground sore sleeve and remove the pipe, In the pipe, the Quartz glass and heat insulation is installed, Do not drop or miss it.

Remove the heating Element

Disconnect the terminal and remove the heating element.

Insert a new heating element.

Handle it with care never rub the Heating Element wire, Insert a new Heating element and reconnect the