



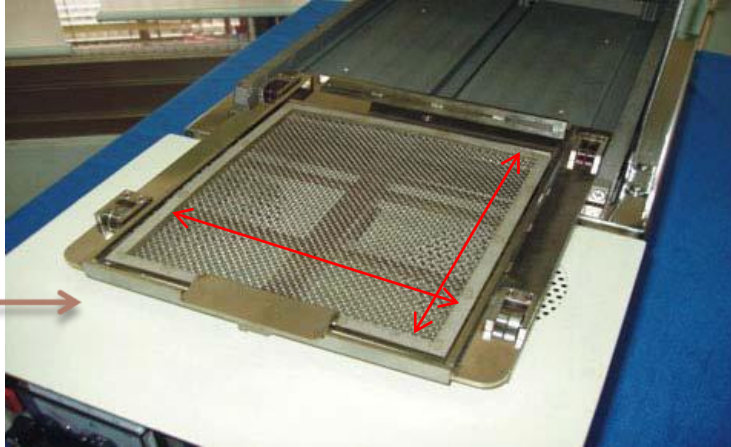
RTU-380 Lead Free Reflow Oven

Ren Thang Co., Ltd.

RTU-380 Lead Free Reflow Oven



► Specification

1. Machine Dimension: 850(L)x280(W)x280(H)mm
2. Net Weight: 40 kgs
3. Input Voltage: 220V/AC/50/60Hz
4. Power: 3200 Watts
5. Reflow Area: **155 x 155mm** 
6. Warm-up time: 3 minutes.
7. Temperature Range: 28~420 Celsius degree
8. Temperature Control : 2 separate PID with Fuzzy control



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► Function

1. N2 Retrofit : N2 flow rate can control by a N2 Flow Meter, range from 0-25 M3/Min.(1 LPM = 28 lit/Min)
2. N2 will help to reduce oxidation during reflow process.
3. Amp Meter : During power on Oven max. surge is 15Amp, and when under normal running condition consume only 6.2 –8 Amp.

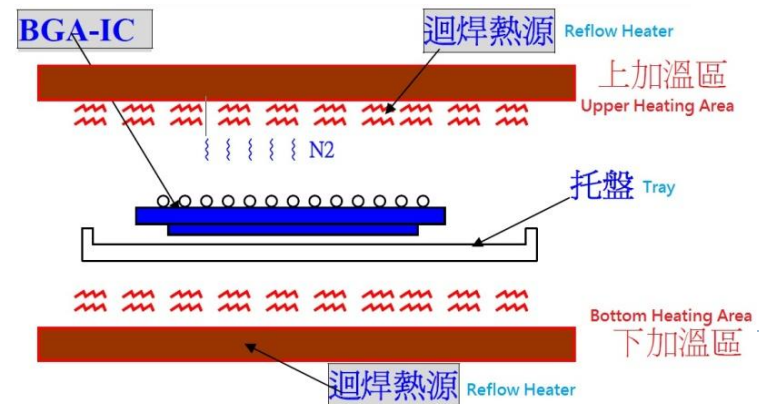


RTU-380 Lead Free Reflow Oven



► Features

1. Heat from top and bottom, from both sides, is stable to increase degrees smoothly and evenly .
2. Suitable for lead or lead-free repair procedure.
3. Contactless heat-up method can prevent I.C. or Chips to burst apart or crack due to the large coefficient of thermal expansion.
4. Lead-Free Tin Ball melting point at 217°C
5. Lead Tin Ball melting point at $205\sim 206^{\circ}\text{C}$
6. Heat from both sides can prevent from burnt-out, wrap-up or damage on IC.





Control Panel Introduction :

3A 保險絲 電流表 溫控偵測最高限定值 感溫線座
Fuse 3 Amp Amp. Meter Temp. Controller Max. Thermo Couple Plug
Temp. Setting

加熱器鍵 USB 溫控偵測值 N2 錶 急停
Heater USB Connector Temp. Controller N2 Meter Emergency
ON/OFF Switch Detected Value Stop Swith



電源鍵 感溫線 時間控制器 啟動鍵 流量器
Power Switch Thermo Couple Temp. Timer Start Button Flow Meter

上感測溫度 下感測溫度
Upper Heater Detected Temp. Bottom Heater Detected

上加熱設定溫度 下加熱設定溫度
Upper Heater Temp. Setting Below Heater Temp. Setting



Working Cycle/Capacity Calculation:



▶ **[Temperature heat-up Time]**

Start HEATER : Increase 10°C takes 1 minute.

▶ **If set to 250°C, it will take 25minutes to 250°C.**

▶ **[Movement Time]**

Start → Reflow movement → Retrieve to Start.

A. Working Cycle: depends on setting of TIMER

B. Capacity: depends on one time amount on tray.

1. Reflow TIMER set at 200sec.

2. How many pieces on tray at a time as a route.

3. Calculate how many routes can run per day or per ever 4 or 8 hours.

4. Amount x Routes = daily capacity

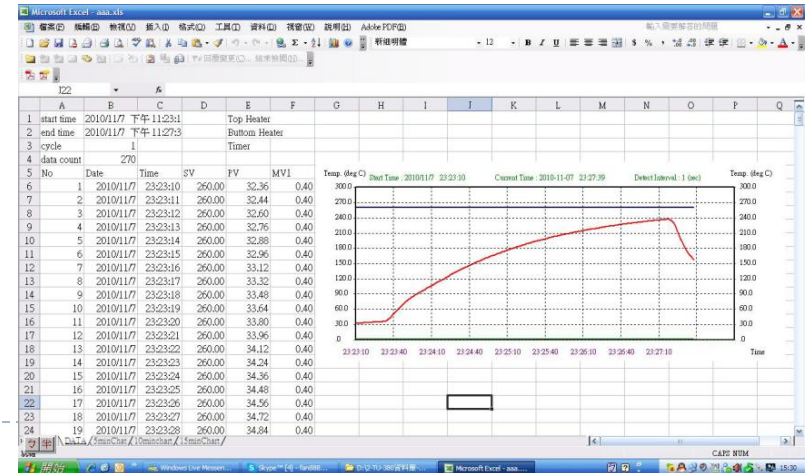
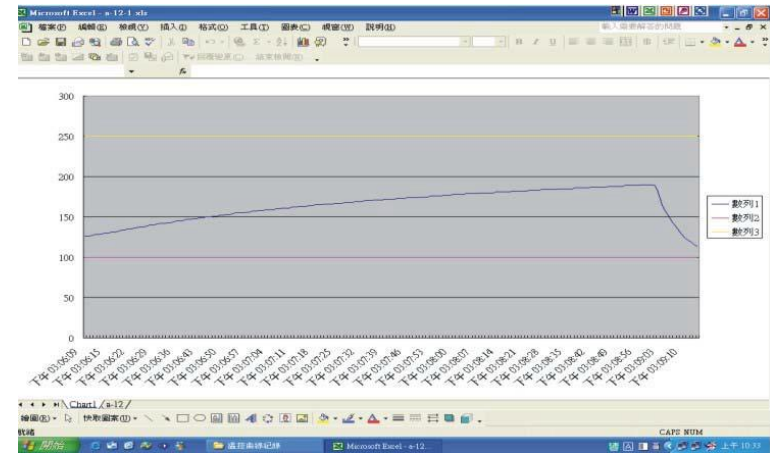


Using Computer to pull out the Temp. Profile



Link Thermo Couple & RS-232 to dominate temperatures

Save as Curve Chart or EXCEL file to print out.



Our customer's lab.



Left is old, right is new.

N2 Bottle to supply

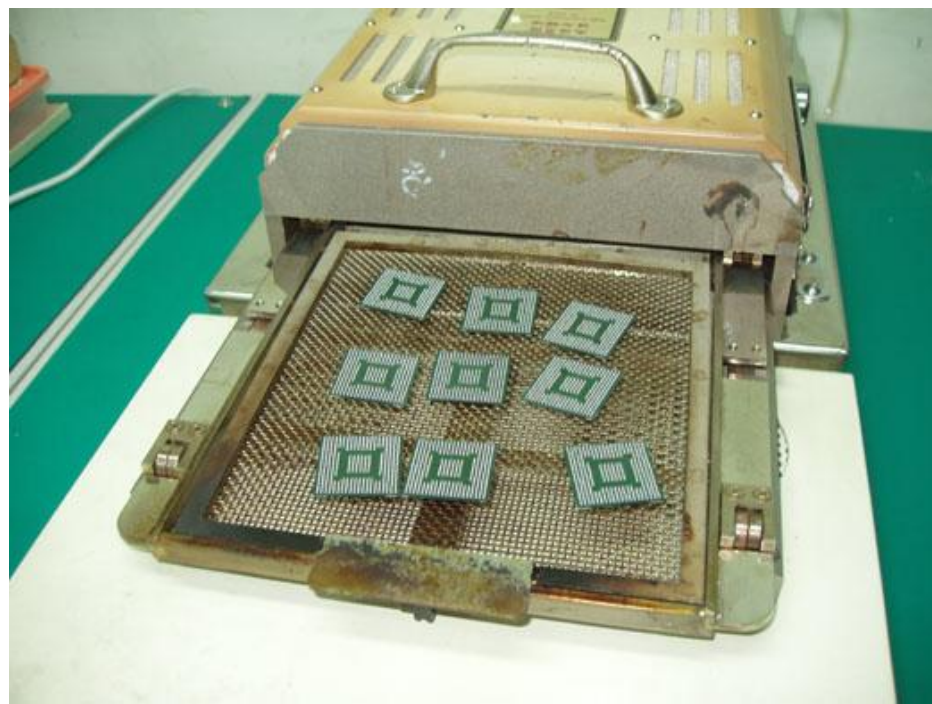


Our customer's lab.



Amount on tray depends

Put exhaust system



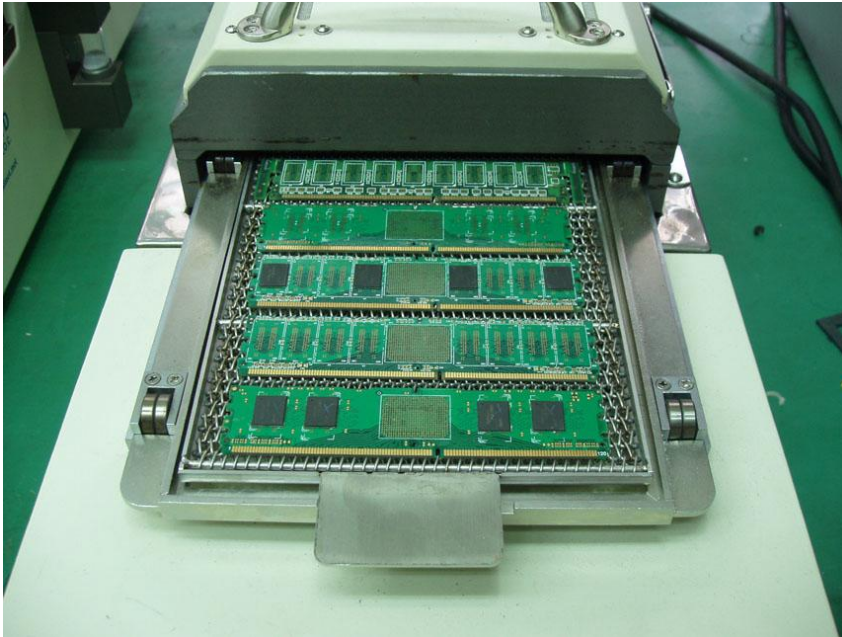
Samples



Samples



DRAM-PCB BGA



DRAM BGA

