

Technical Specifications 技術參數

Model No.	型號	FLW-VP860	FLW-VP860N	FLW-VP1060	FLW-VP1060N	FLW-VP1260	FLW-VP1260N
Heating Zone	加熱區數量	8 zones:16 heating 8 溫區: 16 加熱		10 zones:20 heating 10 溫區: 20 加熱		12 zones:24 heating 12 溫區: 24 加熱	
Heated Length	加熱區長度	2652mm		3363mm		3975mm	
Cooling Zone	冷卻區數量	2 cooling zones 2 個冷卻溫區		2 cooling zones 2 個冷卻溫區		2 cooling zones 2 個冷卻溫區	
Temp. Range	溫度控制範圍	Room Temperature~320℃ 室溫~320℃					
Temp. Accuracy	溫度控制精度	±0.8℃					
Temp. Tolerance	三點溫差	±1℃					
PCB Width	PCB 寬度	Single rail oven standard: max. 430mm, extended: max. 570mm, Dual rail oven standard: dual lane process max. 200mm, single lane process max. 350mm, extended oven: dual lane process: 270mm, single lane process max. 490mm 單軌爐導軌 (標準型): 最大430mm, (非標準型): 570mm 雙軌爐導軌 (標準型): 雙邊過板最大200mm, 單邊過板最大350mm; 雙軌爐導軌 (非標準型): 雙邊過板最大270mm, 單邊過板最大490mm					
PCB Conveyor Direction	PCB 傳輸方向	L→R / L←R					
PCB Conveyor Height	PCB 傳輸高度	900±20mm					
Fixed Conveyor Rail	導軌固定方式	Fixed front rail or Fixed rear rail 前定或後定					
Conveyor Rail Width Range	鏈條導軌調整範圍	Standard: 50~430mm Customized: 50~570mm 標準型: 50~430mm 非標準型: 50~570mm					
Mesh Width	網帶寬度	505mm (extended version 非標準型: 645mm)					
Conveyor Speed	傳輸速度	200-2000mm/min					
Nitrogen Consumption	氮氣消耗量	15~25m³/h 350~900ppm		15~25m³/h 350~900ppm		15~25m³/h 350~900ppm	
Solder Paste Type	錫膏種類	Lead-free solder paste/Normal Solder Paste 無鉛錫膏或普通錫膏					
Power Failure Protection	停電保護	UPS controlled computer and conveyor running in case of main power failure UPS 保證電腦運行及 PCB 的正常輸出					
Operating System	操作系統	Windows XP					
Abnormal Alarm	異常報警	Over temperature difference ( Alarm for over-high or over-low constant temperature) 溫度超差 ( 恒溫後溫度超高或超低報警 )					
System Power	電源	3 Phase 5 Wires 380V 50/60Hz 三相五線制					
Normal Power	正常功率	Approx.8kw	Approx. 9kw	Approx.10kw	Approx.11kw	Approx.12kw	Approx.13kw
Start-up Power	啓動功率	Approx.28kw	Approx.30kw	Approx.32kw	Approx.34kw	Approx.36kw	Approx.38kw
Voltage	電源功率要求	Approx.41.5kw	Approx. 43kw	Approx.52kw	Approx.53.5kw	Approx.56kw	Approx.57.5kw
Outside Dimension	外形尺寸	L4435×W1375×H1580mm		L5146×W1375×H1580mm		L5758×W1375×H1580mm	
Net Weight	重量	1950kg		2200kg		2450kg	

Machine models and configurations are subject to changes without notice in advance.  
型號配置如有更改, 恕不另行通知。

Machine Drawings 機器外形圖

**FLW-VP860 / FLW-VP860N**

Front View 主視圖      Side View 左視圖      Top View 俯視圖

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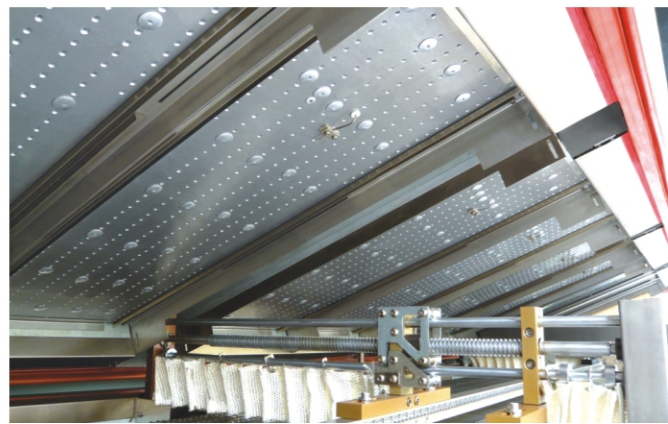
氮气无铅热风回流焊  
Lead-free (N2) Reflow Oven  
VP Series



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中國電子專用設備工業協會理事單位



**Energy Saving Heating System 節能型加熱系統**



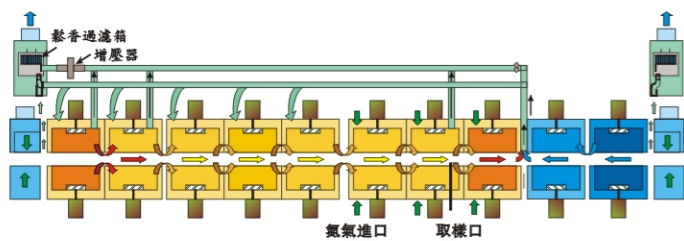
- Forced hot air convection and unique zone design ensures temperature uniformity and low energy consumption(reduction by approx. 1/3 compared to similar machines)
- Patented motorized blowers ensure stable air pressure, withstand high process temperature and is disturbance-free.
- Audible and light alarm for temperature limits, PCB drop and blower malfunction.
- 專利低耗電熱風系統，獨特溫區設計保證 溫度均勻，耗電量比其它同類型爐少1/3;
- 專利馬達風輪，運風平穩，噪音小；保證風壓穩定；
- 超溫、掉板及風機異常報警功能

**Flux Recirculation System 鬆香回收系統**



- Air amplifier powered flux exhaust system ensures a clean oven tunnel;
- Drawer typed flux filter circulation unit is easy to access and maintain.
- Flux circulated is 3 times more than traditional flux collection system.
- 90% of flux can be circulated.
- 增壓放大式鬆香排放系統，爐膛清潔幹淨；
- 抽屜式鬆香回收，維護保養方便快捷；
- 鬆香回收量比傳統回收系統增加三倍；
- 鬆香回收率高達 90%

**Nitrogen Saving System 省氮系統**



Oxygen Analyzer & N2 Meter  
氧氣分析儀及氮氣流量計

- The nitrogen system with oxygen analyzer and nitrogen flow meter is designed to extract oxygen and fill nitrogen while minimizing the nitrogen consumption.
- 氮氣系統內置氧氣分析儀及氮氣流量計，快速抽氧充氮，降低氮氣消耗量。

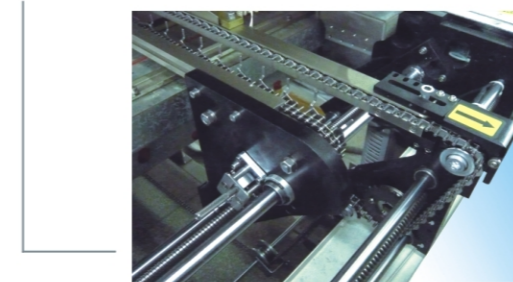


**Integrated Water Cooling System 內置式水冷系統**

- Increased cooling control capacity
- Due to the efficient cooling, solder joint segregation is effectively prevented and dendritic crystal is eliminated. (Standard for nitrogen machine, optional for air machine)
- 更强的冷却控制能力
- 三元共晶同時急冷，防止錫點產生偏析，避免枝狀結晶形成。(氮氣爐標配，空氣爐選配)

**Options**

**Retractable Center Support System 疊折中央支撐系統**

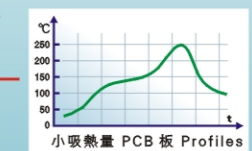
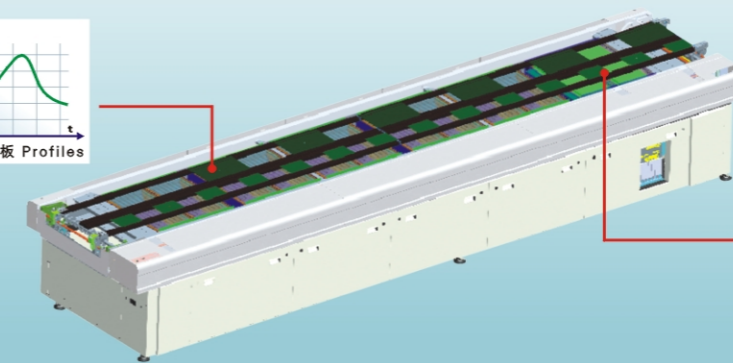
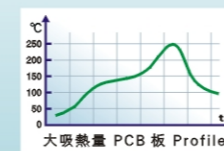


The unique retractable center support system is easy to use with maximum flexibility. It can hide itself when not used and will not hit the components on double sided boards or boards with long component leads.

更方便、快捷、靈活地使用中央支撐；  
可藏起，有效防止雙面板及長腳作業碰撞元件腳。

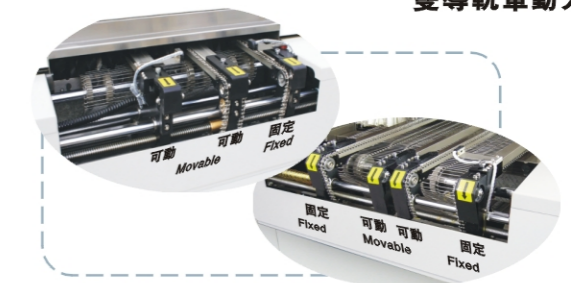
**Dual Lane Dual Driving System**

- The dual lane conveyor system is designed to produce PCBs of different models and different sizes simultaneously.
- With cost and power consumption of only one machine, you will enjoy the output of two machines. Highest efficiency is realized.
- Different conveyor speed can be set when dual lanes are used.



**選項配置**

**Dual Lane Single Driving System 雙導軌單動力**



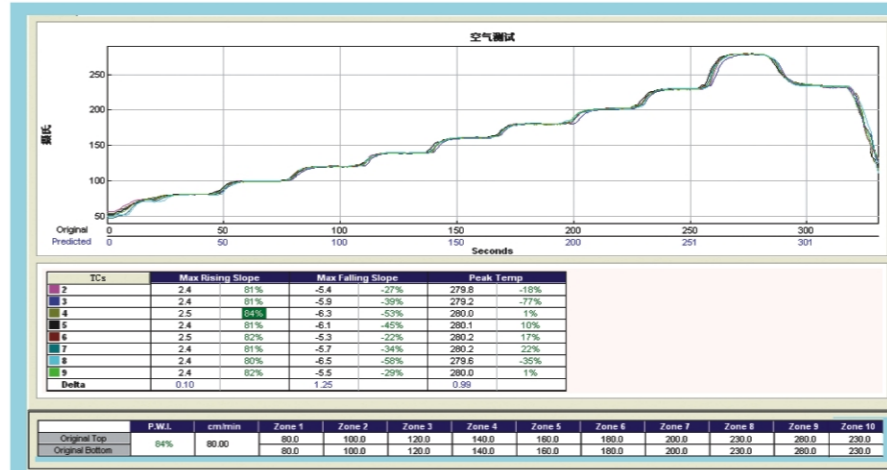
- Dual Conveyor System  
Three or four rail design; for standard machine maximum rail width for dual lane is 200mm and 350mm if used as single lane; for extended machine maximum rail width for dual lane is 270mm and 490mm if used as single lane. Rails of the in-phase dual conveyor system can be adjusted individually.
- 雙導軌輸送系統  
三條或四條導軌設計；標準型雙邊過板最大200mm，單邊過板最大350mm；非標準型雙邊過板最大270mm，單邊過板最大490mm。雙條同步等速并行傳輸，可獨立調節導軌寬度。

**雙導軌雙動力**

- 兼容多種多規格 PCB 板同時生產；
- 一臺機的成本與能耗，等於兩臺機的產能，為生產廠家做到最高效率；
- 雙邊過板可設置不同鏈速。

**Type Profile Tested on an 10 Zone Oven**

**十溫區爐溫度曲線**



Temperature control accuracy for each zone is  $\pm 1^{\circ}\text{C}$   
Conveyor Speed Settings: 800mm/min  
Heating Zone Blower Speed Settings: 3000RPM

各個溫區的控溫精度  $\pm 1^{\circ}\text{C}$   
運輸速度: 800mm/min  
風機轉速: 3000RPM