



RESOURCES

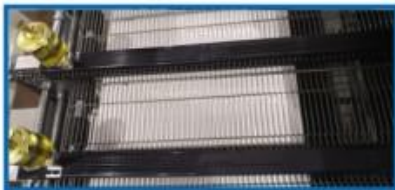
Creating Future Together

A & A Global Resources Pvt. Ltd.

327, Siddharth Towers 12/3B, Kothrud, Pune, Maharashtra 411038  
Website: <http://www.smt-india.com/>  
Contact: Ashutosh Agate | [agate@smt-india.com](mailto:agate@smt-india.com) | +91 93255 44783

# AA-RF-640L

## Up 6/down 6 Heating Zones Reflow Oven (Chain Guiderail + PC Control)



- 1.The creative thermal insulation system with patent: employ imported thermal insulation materials with double layers. In normal operation, it will protect the temperature of the reflow soldering shell to have no higher temperature than the room temperature, so as to improve the thermal utilization rate of the reflow soldering. It will save 40% of the power, compared with the similar reflow soldering, thus reducing greatly the electricity cost of the reflow soldering.
- 2.The entire device employs PLC+ industrial computer to control, so as to ensure the stable operation and no fault of the control system.
- 3.Multipoint airblast principle, microcirculation wind carrying structure for the whole process, heating from both upside and downward, short wind range of the heating area, extremely high of the high efficiency.
- 4.The strong air draft and waste air filtering system with double blocks will ensure the smooth elimination of the waste gas in the furnace chamber and the cleanness in the furnace chamber.
- 5.The vigorous cooling system: the high pressure fan will be used to convey the cold wind into the cooling area, which will increase the cooling speed significantly, so as to satisfy various lead-free production process.
- 6.The heating employs the special long-life wounded nickel-chromium heating wire, with high heat efficiency and sensitivity, small thermal inertia. The temperature precision of various temperature zones can be controlled with  $\pm 2\text{ }^{\circ}\text{C}$  . It will heat up the circulation air directly and quickly. It will take about 10 minutes from the room temperature to the working temperature.
- 7.Import Taiwan Sanyue radiating high-temperature motor is employed to drive the hot wind to heat up and ensure an even hot wind, with low noise and small vibration.
- 8.Special transportation guiding rail is made of temperature-resistant and wear-resistant aluminium alloy. Its high stiffness will have no deformation.
- 9.The electrical elements employ imported components. All signal wires have been shield processed, so as to make the entire control system more stable and reliable.

No.	Application scope	
1	Style of the solder paste	Solder paste with lead, lead-free solder paste, solder paste of low and high temperature
2	Size of the maximum processing baseplate	Widest welding 350mm
3	Category of applicable components	BGA resistance, chip, diode, audion
<b>Equipment block</b>		
1	Size of the device	L3600mm*W750mm*H1320mm
2	Weight	500KG
3	Constitution of the temperature zones	6temperature zones for both up and down
<b>Temperature control</b>		
1	Temperature control means	Meter control
2	Control precision of the temperature areas	$\pm 1^\circ$
3	PCB horizontal temperature deviation	$\pm 1^\circ$
4	Temperature control scope	0-350°
5	Temperature rise time (refrigerator starts)	10 minutes
6	Temperature stabilization time	3 minutes
<b>Structure of the circular furnace</b>		
1	Wind carrying approach	The upper circular furnace employs nickel-chromium heating tube to heat up. Import Taiwan Sanyue radiating high-temperature motor is employed to drive the hot wind to heat up and ensure an even hot wind, with low noise and small vibration.

2	Interior structure	<p>a. Combine the up and down inner containers</p> <p>b. The up and down inner containers employ the cold rolled steel of 2.0 thickness to weld together, with the outside painted with silver high temperature painting (the outside of the circular furnace adds the thermal insulation cotton). The inside employs import thermal insulation cotton for thermal insulation.. There are 12 temperature areas, with 6 up and 6 downward.</p>	
<b>Conveying mechanism</b>			
1	Width of the conveying belt	400mm	
2	Conveying means	Net belt + chain drive	
3	Conveying direction	Left-right, right-left, optional	
4	Height of the conveying chain surface	880±20mm	
5	Transport speed	60W motor equipped with 1:100 reducer, with speed adjustable	
<b>Control system</b>			
1	Power supply	control by industrial instrument	three phase 380V
2	Power of start up/ no-load power		Power of start up: 20KW power consumption in working: 5KW
3	Conveying motor		Taiwan DongBang60W , equipped with 1:150 reducer
4	Wind driving motor		Taiwan Sanyue 45W radiating type, thermal-stable
5	Heater		nickel-chromium (Sweden)
6	Alarm		Signal lights of three colors: yellow: temperature rise, green: constant temperature, red: abnormal condition, automatic alarm.
7	Control system		Every temperature area is controlled separately
<b>Cooling system</b>			
1	Cooling area	One	
2	Cooling mean	Air cooling	