

# SPECIFICATION

## AR Series Single Lane Reflow Oven @ Smartlink-SMT

AR Series Single Lane Reflow Oven						
	AR-803	AR-803N	AR-1003	AR-1003N	AR-1203	AR-1203N
Dimensions (L x W x H)	5.710 x 1.426 x 1.560 mm		6.520 x 1.426 x 1.560 mm		7.290 x 1.426 x 1.560 mm	
Weight	approx. 2.250 kg	approx. 2.350 kg	approx. 2.450 kg	approx. 2.550 kg	approx. 2.650 kg	approx. 2.750 kg
Operating system	Windows 10					
No. of heating zones	Top 8 & Bottom 8		Top 10 & Bottom 10		Top 12 & Bottom 12	
Length of heating zone	3.110 mm		3.950 mm		4.720 mm	
No. of cooling zones	Top 3 & Bottom 3	Top 3	Top 3 & Bottom 3	Top 3	Top 3 & Bottom 3	Top 3
Length of cooling zone	1.200 mm					
<b>Temperature Management</b>						
Temp. control method	PID closed loop control + SSR drive					
Temp. range	Room temp. - 300°C					
Max. temp. difference (preheating/soldering zones)	80°C					
Max. temp. difference between preheating zones	40°C					
Max. temp. difference between soldering zones	40°C					
Precision of temp. control	± 1°C					
Temperature deviation on PCB	± 1,5°C					
<b>Board Handling</b>						
PCB width	50 - 460 mm					
PCB clearance	Top 30 mm & Bottom 25 mm					
Conveyor speed	300 - 2.000 mm/min					
Conveyor height	900 ± 20 mm					
Conveyor fixed rail	Front (Optional: Rear)					
Conveyor direction	Left to right (Optional: Right to left)					
Conveyor width adjustment	Automatic					
Conveyor type	Chain & mesh belt	Chain	Chain & mesh belt	Chain	Chain & mesh belt	Chain
<b>Factory Requirements</b>						
Power supply	3 phase 380 VAC 50/60 Hz (Optional: 3 phase 220 VAC 50/60 Hz)					
Total power	64 kW	68 kW	80 kW	84 kW	92 kW	96 kW
Start-up power	30 kW	33 kW	34 kW	37 kW	38 kW	41 kW
Normal power consumption	approx. 10 kW	approx. 11 kW	approx. 11 kW	approx. 12 kW	approx. 12 kW	approx. 13 kW
Warm-up time	approx. 25 Minuten					
Nitrogen source requirement	N/A	0,5-0,8 MPa, 10 ppm	N/A	0,5-0,8 MPa, 10 ppm	N/A	0,5-0,8 MPa, 10 ppm
Nitrogen consumption (500-1,000 ppm)	N/A	22 m³/h	N/A	24 m³/h	N/A	30 m³/h
Exhaust flowrate	10 m³/min x 2 pcs					
Exhaust opening diameter	200 mm					

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<b>Standard Functions</b>						
	Automatic QR-code scanner					
	Automatic conveyor width adjustment (by recipe or numeric input)					
	N <sub>2</sub> flow meter					
	External water cooler with flux recovery system					
	Inlet and outlet cover					
	Oil pump					
	UPS (Uninterruptible Power Supply)					
	Automatic start/stop time					
	Code scanner (Keyence SR710)					
	Universal code scanner holder					
<b>Optional Functions</b>						
	Rapid cooling AR-1003N/DN					
	IPC-CFX (Connected Factory Exchange) interface					
	Built-in 3-phase transformer					
	PCB center board support (CBS)					
	Chain-guided automatic position adjustment					
	Single-lane air/nitrogen ovens for 400°C					
	Blower fan speed monitoring (AR-1003/D/N/DN)					
	Upgrade maximum conveyor width to 610 mm (for AR-, AR-N only)					
	Upgrade maximum set temperature from 300°C to 400°C (AR series: Air, D, N, DN)					
	Nitrogen/air system switching (for AR-N, AR-DN only)					
	Center board support (CBS) system with automatic position adjustment					
	Blower fan speed monitoring					
	Oxygen analyzer (for AR-N, AR-DN only)					
	MES customization (Industry 4.0)					
	Advanced profiling robot ProBot (OEM by KIC)					
	KIC auto profiling system ProBot					