

SPECIFICATION

AR Series Dual Lane Reflow Oven @ Smartlink-SMT

AR Series Dual Lane Reflow Oven						
	AR-803D	AR-803DN	AR-1003D	AR-1003DN	AR-1203D	AR-1203DN
Dimensions (L x W x H)	5.710 x 1.656 x 1.560 mm		6.520 x 1.656 x 1.560 mm		7.290 x 1.656 x 1.560 mm	
Weight	≈ 2.600 kg	≈ 2.700 kg	≈ 2.800 kg	≈ 2.900 kg	≈ 3.000 kg	≈ 3.100 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					
Temperature Management						
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					
Board Handling						
PCB width	50 - 270 mm x 2 lines					
PCB clearance	Top 30 mm & Bottom 25 mm					
Conveyor speed	300 - 2.000 mm/min					
Conveyor height	900 ± 20 mm					
Conveyor fixed rail	1st & 4th rails (optional: others)					
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
Factory Requirements						
Power supply	3 phase 380 VAC 50/60 Hz (Optional: 3 phase 220 VAC 50/60 Hz)					
Total power	80 kW	84 kW	100 kW	104 kW	115 kW	119 kW
Start-up power	34 kW	37 kW	36 kW	39 kW	42 kW	45 kW
Normal power consumption	approx. 11 kW	approx. 12 kW	approx. 12 kW	approx. 13 kW	approx. 14 kW	approx. 15 kW
Warm-up time	approx. 30 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	25 m³/h	N/A	27 m³/h	N/A	35 m³/h
Exhaust flowrate	10 m³/min x 2 pcs					
Exhaust opening diameter	200 mm					

All technical data has been carefully checked; however, we assume no liability for its accuracy or completeness.
Subject to change without notice.

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Standard Functions						
Automatic QR-code scanner						
Automatic conveyor width adjustment (by recipe or numeric input)						
N ₂ 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						
Optional Functions						
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						