

Reflow Oven Vision 8		2.1	2.6	3.2	3.8	4.3
DIMENSIONS AND WEIGHTS						
Length		4015 mm 158,07 in	5015 mm 197.44 in	5600 mm 220.47 in	6230 mm 245.28 in	7160 mm 281.89 in
Width		1492 mm / 58.74 in				
Height		1500 mm / 59.06 in				
Height with open hoods		approx. 2300 mm / 90,55 in				
Required area		5,6 m ² 60.28 ft ²	7,4 m ² 79.65 ft ²	8,3 m ² 89.34 ft ²	9,2 m ² 99.03 ft ²	10,6 m ² 136.7 ft ²
Weight V8 basic, according to options, up to 500kg more.		1800 kg 3968 lb	2200 kg 4850 lb	2700 kg 5952 lb	3200 kg 7055 lb	3600 kg 7937 lb
Weight V8 nitro, according to options, up to 500kg more.		2000 kg 4409 lb	2500 kg 5512 lb	3000 kg 6614 lb	3600 kg 7937 lb	4000 kg 8818 lb
load per unit area		400 kg/m ²	400 kg/m ²	400 kg/m ²	400 kg/m ²	400 kg/m ²
CONNECTIONS						
Voltage supply		system specific, please see layout plan				
Cooling water (external cooling only)		system specific, please see layout plan				
Nitrogen		system specific, please see layout plan				
IN- AND OUTLET TABLE						
Length of inlet table		approx. 400 mm / 15.75 in				
Length of outlet table		approx. 400 mm / 15.75 in				
HEATING						
Length		2100 mm 82.68 in	2600 mm 102.36 in	3200 mm 125.98 in	3800 mm 149.60 in	4300 mm 169.29 in
Quantity of preheating zones		4	4	5	6	7
Length of preheating zones		400 mm / 15.75 in				
Quantity of peak zones		1	2	3	3	3
Length of peak zones		400 mm	300 mm	270 mm	325 mm	325 mm
Maximum permissible soldering temperature.	Preheating zones	300 °C / 572 °F				
	Peak zones	350 °C / 662 °F				
Heat transfer through		forced convection				
Gas circulation per heating zone		600 m ³ /h / 353.15 ft ³ /min				
Warm up time		approx. 30 min				
Cross profile (Delta T = T _{max} – T _{min})		±2,5 Kelvin				
Specification		5 K / 4 sigma				
COOLING ZONE						
Length		600 mm 23.62 in	1000 mm / 39.37 in			1500 mm 59.06 in
Length optional (machine length +465 mm)		-----	1500 mm / 59.06 in			-----
Type	V8.1 nitro	single stage	two-stage, water-cooled, optional three-stage			
	V8.1 basic	single stage air cooled optional: two-stage, three-stage water-cooled				

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OPERATING DATA					
Maximum noise level without internal cooling	72 dBA				
Maximum noise level with internal cooling	75 dBA				
Room temperature	between 15 °C and 32 °C / 59 F and 89,6 F				
Humidity	between 30 % and 75 %				
Oxygen	< 100 ppm				
INTERFACES					
Type	Siemens, Smema (others by request)				
CENTER SUPPORT					
Center support	optional rope or link chain, lowering to 20 mm / 0.787 in				
Center support position (highest level)	min. 50 mm - max. 350 mm (option 410/458 mm) / min. 1.97 in - max. 13.78 in (option 16.14/18.03 in)				
PIN CHAIN CONVEYOR					
Conveyor system height	900 mm ±75 mm / 35.43 in ±2.95 in				
Width, single conveyor ±0,5 mm	min. 50 mm / 1.97 in (MU-lowest position), 100 mm / 3.94 in (MU-highest position) to max. 400 mm / 15.75 in (option 460/508 mm / 18.11/20 in)				
Width, dual conveyor ±0,5 mm	min. 50 mm / 1.97 in (MU-lowest positon), 100 mm / 3.94 in (MU-highest position to max. 216 mm / 8.5 in				
Clearance above the conveyor	30 mm / 1.18 in				
Clearance below the conveyor	20 mm / 0.78 in				
Pin chain support width	optional 3 mm / 0.118 in or 5 mm / 0.197 in				
Adjustable conveyor speed	180-1800 mm/min / 7.09 in-70.87 in per min				
Tolerance conveyor speed (0,5 % per 1800 mm/min)	≤ = 9 mm/min./ 0,354 in per min				
MESH BELT CONVEYOR					
Conveyor system height	900mm / 35.43 in ±75 mm / 2.95 in				
Width mesh belt conveyor	400 mm / 15.77 in (option 460/508 mm / 18.11/20 in)				
Clearance above the mesh belt conveyor	30 mm / 1.18 in				
Adjustable conveyor speed	180 -1 800 mm/min / 7.09 in - 70.87 in per min				
Tolerance conveyor speed (based on max value)	< 1 %				
COOLING WATER AT EXTERNAL COOLING					
Connection	M 28 x 1,5 (22 mm / 0.87 in Cu Tube)				
Cooling water flow	between 10 - 20 l/min / 158.5 - 317 gal/hr (according to temperature).				
Operating pressure	min. 2 bar / 29 psi - max. 5 bar / 72,5psi				
Differential pressure	min. 0,5 bar / 7,25 psi				
VOLTAGE SUPPLY CONSUMPTION					
Type of power system	4-wire system (L1, L2, L3, PE)				
Voltage supply	3 x 400 VAC ± 5 % 50 Hz				

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Connected load without bottom heating	V8 basic	30 kW	43 kW	49 kW	55 kW	58 kW
	V8 nitro	31 kW	44 kW	50 kW	58 kW	59 kW
Connected load with bottom heating	V8 basic	40 kW	52 kW	62 kW	68 kW	75 kW
	V8 nitro	41 kW	53 kW	63 kW	69 kW	76 kW
Connected load +5KW, with internal cooling						
Operating capacity without bottom heating	V8 basic	7,3 kW	10,4 kW	11,9 kW	13,4 kW	14,1 kW
	V8 nitro	7,5 kW	10,7 kW	12,2 kW	14,1 kW	14,3 kW
Operating capacity with bottom heating	V8 basic	9,7 kW	12,6 kW	15,1 kW	16,6 kW	18,3 kW
	V8 nitro	9,9 kW	12,9 kW	15,4 kW	16,8 kW	18,5 kW
Operating capacity +2KW, with internal cooling. The values can deviate depending on the oven use.						
NITROGEN SUPPLY						
Connection		M 16 x 1 (12mm / 0.472in Cu Tube)				
Nitrogen supply pressure		min. 6bar / 87psi to max. 10bar / 145psi				
Operating pressure		5bar / 72.52psi				
Nitrogen consumption single conveyor at < 100ppm in peak		22 m ³ /h 12,9ft ³ /min	18 m ³ /h 10.6ft ³ /min	20 m ³ /h 11.8ft ³ /min	20 m ³ /h 11.8ft ³ /min	22 m ³ /h 12.9ft ³ /min
Nitrogen consumption double conveyor at< 100ppm in peak zone		24 m ³ /h 14,1ft ³ /min	20 m ³ /h 11.8ft ³ /min	22 m ³ /h 12.9ft ³ /min	22 m ³ /h 12.9ft ³ /min	24 m ³ /h 14.1ft ³ /min
The machine can´t be exposed to draft. Appliances generating air flow towards the oven and from the oven away, aren´t to be installed before the inlet and behind the outlet of the oven.						
EXHAUST PROCCESS						
Exhaust socket diameter		150 mm / 5,91 in				
Exhaust at min 3 mbar underpressure	V8 basic	800 m ³ /h 471 ft ³ /min	900 m ³ /h 530 ft ³ /min	1000 m ³ /h 589 ft ³ /min	1100 m ³ /h 647 ft ³ /min	1300 m ³ /h 765 ft ³ /min
	V8 nitro	400 m ³ /h 235 ft ³ /min	400 m ³ /h 235 ft ³ /min	400 m ³ /h 235 ft ³ /min	400 m ³ /h 235 ft ³ /min	400 m ³ /h 235 ft ³ /min
Exhaust temperature		< 50 °C / 122 F				
QUICK EXHAUST (OPTION)						
Exhaust socket diameter		150 mm / 5.91 in				
Exhaust		700 m ³ /h / 412 ft ³ /min				
Exhaust temperature		< 50 °C / 122 F				
EXHAUST EXTERNAL COOLING						
Exhaust socket dimensions		ca. 650 mm x 190 mm / 25,59 in x 7.48 in				
Exhaust free-blowing with ambient temperature of 30 ° C.		2500 m ³ /h / 84755 ft ³ /min				
Exhaust temperature		< 50 °C / 122 F				

Subject to technical alterations.

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