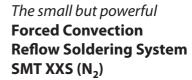
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## Forced Convection Reflow Soldering System

SMT XXS (N<sub>2</sub>)



Your ideal solution for lower up to mid-range throughput in production, in laboratories, test tracks and manufacturing of prototypes.



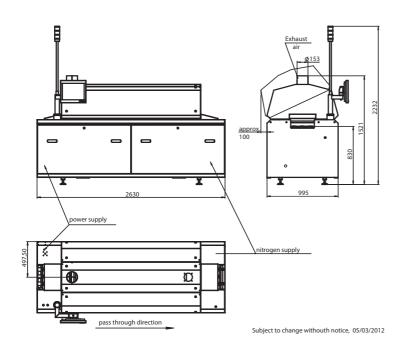


## **Important Similarities**

All SMT reflow soldering systems assure an optimum of process stability by innovative technology and are equipped with the following advantages:

- Special power nozzle system for optimal heat transfer
- Sophisticated control concept for lowest possible energy and media consumption
- Multi-stage condensate filter at the cooling zone for efficient cleaning
- Process chamber made of stainless steel
- Suitable for temper and curing processes

All systems are available as air or nitrogen version and are suitable from small batch up to three shift operation.





## Technical Data SMT XXS (N<sub>2</sub>)

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Overall dimensions	
Length:	2630 mm
Width:	995 mm
Height (in delivery condition / incl. warning light): 2.)	1521 mm / 2232 mm
Inlet height, adjustable by customer: 2.)	830 1030 ±20 mm
Weight	approx. 1000 kg
Number / diameter foot:	4 / 80 mm
Max. floor loading:	500 kg/m <sup>2</sup>
Process area	3
Length:	2290 mm
Pre-heating zones:	2
Peak zone (top/bottom):	1 peak zone with 2 heating modules (1 top/1 bottom)
Bottom heating modules pre-heating zones (option):	2
Heated tunnel length, total:	1380 mm
Active convection length:	1085 mm
Length of cooling zone:	910 mm
Temperature measurement:	NiCr-Ni sensors in the hot gas flow
Warm-up time:	approx. 30 min.
Heat transfer:	100% forced convection
Process temperature (pre-heating zone/peak zone):	max. 300 °C (pre-heating zone) / 350 °C (Peak)
Transport chain conveyor	max. 500 C(pre neating 20he) / 550 C (reak)
Working width usable with PCB support:	60 260 mm
Pass through height (top/bottom):	30/30 mm
Max. loading:	3 kg/m
Transport mesh belt conveyor	3 kg/iii
Usable working width:	300 mm
Pass through height (top):	50 mm
Max. loading:	3 kg/m
Conveyor speed	0.2 3.0 m/min.
Average conveyor speed	0.2 0.4 m/min.
Exhaustion 3.)	0.2 0. <del></del> 111/111111.
Suction pipe:	1 x Ø 153 mm
Required exhaust air at pipe (inlet):	approx. 300 400 m <sup>3</sup> /h
Temperature of exhaust air at the pipe:	approx. 300 400 m /n < 50 °C
Internal exhaust air resistance of oven:	3 - 8 mbar
	< 70 dB(A)
Continuous sound pressure level	CDIAS with RT 7
Control Unit Nitrogen supply * 4.)	CDIAS WILLIAT /
	R 3/8" internal thread
Connecting armature (clamped joint for Cu-pipe):	,
Working pressure (at connecting armature):	6 8 bar
N <sub>2</sub> -consumption, steady state condition and transport width 220 mm: <sup>6.)</sup>	approx. 9 m <sup>3</sup> /h
N <sub>2</sub> -consumption, full load and transport width 220 mm: <sup>7,3</sup>	approx. 15 m³/h
Readiness for the system (1000 ppm, N <sub>2</sub> < 5 ppm O <sub>2</sub> ):	approx. 15 min.
Power supply	2 N DE 220 / 400 V E0 U-
Connecting power supply:	3~N, PE 230 / 400 V, 50 Hz
Max. current consumption per phase:	29 A
Power consumption during heat-up:	19 kW
Power consumption steady state condition: 1.)	approx. 5 kW h

Subject to change without notice 05/03/2012



<sup>1.)</sup> Machine with chain conveyor 220 mm transport width, fan regulation and no other options
2.) Standard height 830 mm; corresponding to a changed inlet height the other heights of the reflow system are changing
3.) Connection of a flexible, heat resisting (at least 100 °C) hose (available by SMT) or tube. The waste air exhausting unit width adjustable throttle valve mounted after the suction sleeves has to be installed by the user

 $<sup>4.)</sup> Nitrogen supply with filters for solid and liquid parts has to be mounted by the user, recommended supply of nitrogen with oxygen content < 5 \, ppm$ 

<sup>6.) 1000</sup> ppm with option intelligent nitrogen control" and "sleeping mode"; if 500 ppm then approx. 10 m³/h 7.) With PCBs (220 x 220 mm), one PCB length distance, 1000 ppm; if 500 ppm then approx. 17 m³/h \* with option nitrogen only