HOTFLOW 4/26 Reflow soldering with superior performance and the best energy balance







HOTFLOW 4/26 Highest throughput with controlled processes, lowest consumption rates and highest machine updates



Highlights HOTFLOW 4

- Dual and triple track conveyor increases throughput
- Optimized heat transfer, minimized Δ T, zone separation & controlled cooling zone temperature
- Lowest energy and nitrogen consumption
- Highest machine availability
- Low-mass center support, return within the system tunnel
- Residue terminator
- Intelligent N2 control with 3 measuring points
- RPM controlled motor per blower

The Ersa HOTFLOW 4/26 is a high-end reflow soldering system with a process length of 7.1 m, divided into 26 heating zones and 4 cooling zones. Like all systems of the HOTFLOW 4 series, it stands for highest energy efficiency and increased throughput with the known high soldering quality and process stability. The completely new, intelligent nitrogen control reduces consumption by 20 %. In addition, the efficient blower motors ensure total energy savings of more than 25 %.

The HOTFLOW 4/26 also scores in terms of productivity to footprint ratio: Thanks to the dual and triple track conveyor options, throughput can be significantly increased without increasing space requirements! Up to three differently adjustable conveyor speeds ensure maximum flexibility in production. The proven pin-and-chain conveyor with automatically steplessly adjustable center support transports even demanding products safely through the system. With the patented Grip conveyor it is also possible to process flexible printed boards.

A further highlight of the HOTFLOW 4 is the optionally available residue terminator for thermal process gas cleaning.



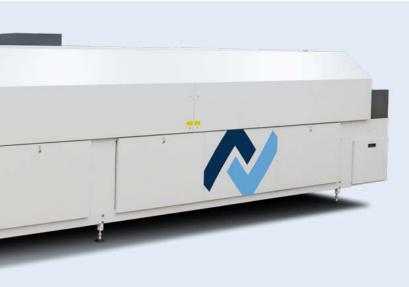
Efficient cooling in outfeed section



Retractable nozzle sheets for quick maintenance



Optimized access to maintenance units



The hot process gases are extracted directly from the upper and lower peak zones, heated to the required cleaning temperature and then returned into the peak zone. This makes the cleaning process energy neutral.

The intuitive Ersa machine control enables easy handling including storage and exchange of temperature profiles and product data. With the AUTOPRO-FILER, the user can even create new temperature profiles offline and then use them immediately in production. Of course, a process data logger and traceability connection including PCB assignment are also available.

Basic configuration

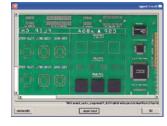
- 9 top and bottom side preheating zones
 4 top and bottom side peak zones
- Cooling step 1: basic cooling from top and bottom
- Adjustable blower speed in soldering and cooling zones
- Outfeed cooling
- Temperature monitoring of the cooling zone
- Bottom-side motor cooling
- Energy consumption management
- Automatic chain lubrication
- 100% tested process tunnel (gas sealed)
- Heating modules retractable without any tools



Grip conveyor for extremely thin PCBs or flexible printed boards

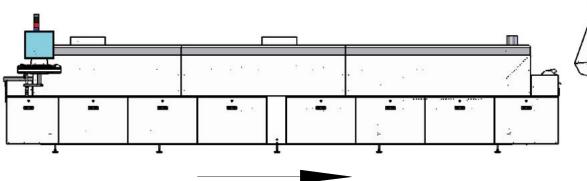


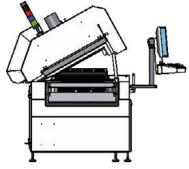




Ersa AUTOPROFILER - easy offline profiling for highest machine uptimes

HOTFLOW 4/26 Technical Data





Dimensions (Basic machine):	
Length:	7,705 mm
Width:	1,410 mm
Height:	1,350 – 1,500 mm
Height (open):	1,670 – 1,820 mm
Weight:	approx. 2,800 kg
Paint:	RAL 7035/7016

Conveyor system:	
Working width:	45 – 560 mm
Working width (PCB center sup	port): 45 – 560 mm
Board clearance (standard):	+32/-40 mm
Center support pin height:	19 mm
Conveyor speed:	20 – 200 cm/min
Conveyor height from floor:	820 – 980 mm
Pin-and-chain conveyor:	3 mm edge clearance option: 4 mm, 5 mm

Nitrogen option:	
Gas injection:	in process zones
Pressure control:	4.5 – 10 bar

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Process zone:	
Process length:	7,115 mm
Heating zone:	5,000 mm
Cooling zone:	2,115 mm
Infeed zone:	620 mm
Process chamber width:	approx. 745 mm

Heating system:	
Convection share:	100 %
Gas flow/module:	approx. 500 m³/h, adjustable
Convection modules:	13 top/13 bottom
Preheating:	9 top/9 bottom
Soldering zone:	4 top/4 bottom
Nominal rating/module	:: 3.3 kW

Cooling:	
Cooling zone:	4-stage version and water recooling
Coolant:	water/R134A
Ambient temperat	ure: max. 32°C

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Satery	/ devices
Juier	

1 x Main switch

- 2 x Emergency-Stop buttons
- 2 x Exhaust monitors

Electrical data:	
Power:	5-wire-system, 3 x 400 V, N, PE
Power tolerance rang	je: ±10 %
Frequency:	50/60 Hz
Max. fuse rating:	3 x 100 A
Nominal rating:	83 kW – 102 kW
(subject to configuration)	
Reduced rating:	55 kW
Continuous rating for operation: approx. 12 – 19 \ensuremath{KW}	

Exhaust rating:		
Exhaust stacks:	2 stacks, 150	mm (6") ø each
Exhaust volume per	stack:	600 m ³ /h
Exhaust monitoring	per stack:	integrated

Noise level:	
Permanent noise level:	< 65 dB (A)

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