

HOTFLOW 2/24

Reflow soldering system with flexible profile set-up and integrated process manager



ERSA HOTFLOW 2/24 - the next generation

The ERSA HOTFLOW 2 line consists of various machine types all based on the same design. They are only set apart by the number of heating zones and the process length.

The HOTFLOW 2/24 offers up to 4.5 meters heating length and up to 1.6 meters cooling length at a total process length of more than 6 meters.

Subject to your process specifications, the HOTFLOW 2/24 can be equipped with up to 24 separately controlled heating and 8 cooling zones giving you maximum flexibility with regard to profile set-up. Exact zone separation and homogenous temperature distribution provide for best soldering results.

Whatever your demands: high throughput, easiest parameter setting, processing area cleanliness, conveyor

system flexibility or easy maintenance - the HOTFLOW 2/24 will equally meet these demands. Every material and part used is of course suitable for lead-free soldering.

Machine availability rates (uptime) higher than 99 percent as well as average repair times (meantime to repair) of less than 15 minutes are the standards set by ERSA itself for the concept of the HOTFLOW 2 line. Realizing these standards, all top-side heating and cooling modules are quickly accessible due to the hinged hood. Heaters, fan motors, turbines and thermocouples are installed on flange sheets.

With the EPOS 1 software package (ERSA Process Optimization Software) ERSA points the way in the future. It is a unique, valuable and indispensable tool for the user to optimize the process and to measurably increase productivity.

Features ERSA HOTFLOW 2/24

● Standard ○ Option

Bottom-side preheating	○	- for conveyor 2 and center support 2	○
Nitrogen option	○	Inline communication interface (e. g. SMEMA)	○
Residual oxygen monitoring and control	○	PCB pass through control	○
Process atmosphere cleaning	○	PC interface with ERSAsoft	○
Low-mass tubes for pin-and-chain conveyor	○	PC / Notebook with swing arm	○
PCB center support		Autoprofiler	○
- motorized adjustment (momentary push button)	●	EPOS 1 software package for process optimization	○
- programmable adjustment	○	Uninterrupted power supply	○
Conveyor width adjustment		Temperature profiling system (Sensor Shuttle)	○
- motorized adjustment (momentary push button)	●		
- programmable adjustment	○		
Automatic chain lubrication			
- for conveyor and center support	○		

ERSA product range

Soldering tools

- NEW DIMENSION
- PROFI-LINE
- IR-Rework
- CLEAN-AIR

Soldering systems

Wave soldering

- ETS-line
- EWS-line
- N-Wave-line

Reflow soldering

- HOTFLOW 2/14
- HOTFLOW 2/20
- HOTFLOW 2/24
- Hotflow- line
- ERS 250
- ERS 260

Selective soldering

- VERSAFLOW
- VERSAFLOW line
- Highspeed
- Multiwave
- Compact
- Place & Solder
- EAS-line

Process optimization

- EPOS 1

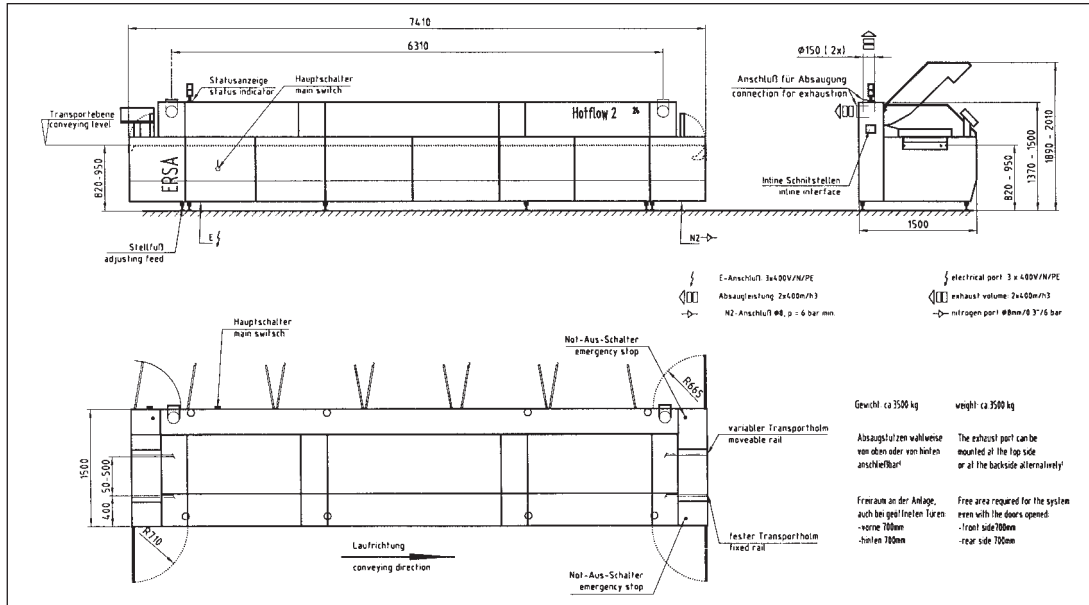
Inspection systems

- ERSASCOPE
- ImageDoc Software

Other services

- Know-how seminars
- In-House trainings
- Test soldering
- Installation and maintenance assistance
- Process support

Reflow soldering system with flexible profile set-up and integrated process manager



Dimensions:

Length: 7,410 mm (292")
 Width: 1,500 mm (59")
 Height: 1,370 - 1,520 mm (54" - 60")
 Height (open): 1,890 - 2,040 mm (74" - 80")
 Weight: approx. 3,500 kg (7,716 lb)

Paint:

RAL 7035 / 7016

Conveyor system:

Working width: 50 - 505 mm (2 - 20")
 Working width with PCB center support: 50-505 mm (2-20")
 Board clearance: +35 / -25 mm (+1.3 / 1")
 Conveyor speed: 20 - 200 cm/min (8 - 79")
 Conveyor height from floor: 820-980 mm (32-39")
 Pin-and-chain conveyor: 5 mm (0.02") as standard, 2.85 mm (0.1") available as an option

Process zone:

Process length: 6,010 mm (237")
 Heating zone: 4,380 mm (172")
 Heating zone: 1,630 mm (64")
 Infeed zone: 700 mm (28")
 Outfeed zone: 700 mm (28")
 Process chamber width: 700 mm (28")

Heating system:

Convection: 100%
 Gas flow per module: max. up to 500 m³/h (17,657 ft³/h)
 Convection modules: 2 top / 12 bottom
 consisting of:
 • Preheating: 9 top modules standard
 • Soldering zone: 9 bottom modules option
 3 top / 3 bottom standard
 Nominal rating per module: 3.3 kW / 400 V

Cooling:

Cooling zone: ERSA Multijet system, top and bottom, 4-stage version as option, water cooling

Ambient temperature:

max. 35°C (95°F)

Nitrogen option:

Gas injection in soldering zone: 1 x
 Gas injection in preheating zone: 1 x (option)
 Gas flow: 0 - 30 m³/h (0 - 1,059 ft³/h)
 Pressure control: 6 bar

Electrical data:

Power: 5-wire-system, 3 x 400 V / N / PE
 Power tolerance range: +6 % / -10 %
 Frequency: 50 or 60 Hz
 Max. fuse rating: 3 x 125 A (slow blow)
 Nominal rating: 56 - 73 kW
 Different ratings within this range are available as option For the exact rating please refer to the rating plate.

Safety devices:

- Main switch
- Emergency-Stop button
- Process atmosphere monitoring

Exhaust rating:

Exhaust stacks: 2 stacks, 150 (6") diameter each
 Exhaust volume per stack: 400 m³/h (14,126 ft³/h)
 Exhaust monitoring per stack: integrated

Permanent noise level:

< 64 dB (A)

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