

DATA

HOTFLOW 2/14

Reflow Soldering with Flexible Profile Set-Up and Integrated Process Management



ERSA HOTFLOW 2/14 - the Best Price/Performance Ratio in the Industry!

The new ERSA HOTFLOW 2 line is setting the industry standard for lead free reflow soldering by providing the ultimate in performance! Highest thermal performance, maximum flexibility, best possible machine availability rates (uptime) as well as lowest possible mean time to repair (MTTR) rates are the standards set by ERSA for the HOTFLOW 2 series of quality reflow ovens.

The HOTFLOW 2/14 offers up to 2.6 meters heating length and up to 0.9 meters cooling length at a total process length of approx. 3.5 meters. Subject to your process specifications, the HOTFLOW 2/14 can be equipped with up to 14 separately controlled heating zones and 2 cooling zones providing maximum flexibility with regard to profile set-up. Exact zone separation

and homogenous temperature distribution provide for the best soldering results. All materials and parts used are suitable for lead free soldering in that they can handle the higher temperatures.

ERSA understands that while performance is paramount, budget considerations play a critical role in equipment purchase decisions. For this reason, all HOTFLOW2 series reflow ovens can be purchased without the ASP option. These standard ovens deliver the same top performance with respect to critical thermal management, flexibility and throughput, but were manufactured under judicious cost guidance considerations. The bottom line is, the HOTFLOW 2 series offers the perfect lead free reflow oven for any application and for discerning budgets!

Features ERSA HOTFLOW 2/14

● Standard ○ Option

Preheating from bottom-side	○	PCB Pass Through Control	○
Temperature Monitoring / Cooling Zone	○	Panel PC incl. PC Support Arm and Touch Screen	○
Nitrogen Technology	○	Standard PC (notebook) incl. swing arm ERSAsoft and EPOS basic module	●
Rest Oxygen Monitoring and Control	○	Operation Status Indicator	●
Process Atmosphere Cleaning / Cooling Zone	●	Uninterrupted Power Supply (Conveyor, Hood, PLC)	○
PCB Center Support with hinged straps - program controlled adjustment	○	Temperature Profiling System (Sensor Shuttle)	○
Conveyor Width Adjustment - program controlled adjustment	●	Autoprofiler	○
Automatic Chain Lubricator - for Conveyor and Center support	●	Adjustable fan speeds for heating and cooling zones	●
Inline-Interface (e.g. SMEMA, WMW)	○	Low-mass tubes for pin-and-chain conveyor	○

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 /260

Selective soldering

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

Process optimization

- EPOS 1

Inspection systems

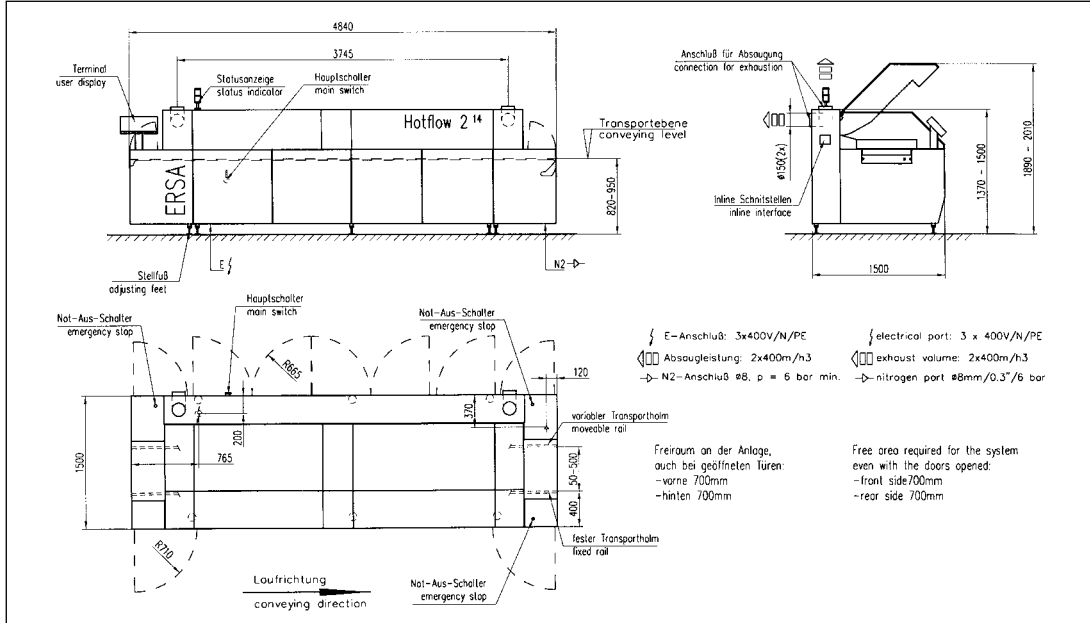
- ERSASCOPE
- ImageDoc Software

Other services

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

HOTFLOW 2/14

Reflow Soldering with Flexible Profile Set-Up and Integrated Process Management



Dimensions (Basic machine):
 Length: 4,840 mm (191")
 Width: 1,500 mm (59")
 Height: 1,370 - 1,500 mm (54" - 59")
 Height (open): 1,890 - 2,010 mm (74" - 79")
 Weight: approx. 1,950 kg (4,300 lb) incl. all options

Paint: RAL 7035 / 7016

Conveyor system:

Working width: 50 - 500 mm (2 - 20")
 Working width with PCB center support: 50-500 mm (2-20")
 Board clearance: +35 / -20 mm (+1.4" / -1")
 Conveyor speed: 20 - 200 cm/min (8 - 79")
 Conveyor height from floor: 820 - 950 mm (32 - 37")
 Pin-and-chain conveyor: 5 mm (0.02") as standard,
 2.85 mm (0.1") available as an option

Minimum board length: 80 mm (4")

Process zone:

Process length: 3,440 mm (135")
 Heating zone: 2,570 mm (101")
 Cooling zone: 870 mm (34")
 Infeed zone: 700 mm (28")
 Outfeed zone: 700 mm (28")
 Process chamber width: 700 mm (28")

Heating system:

Convection: 100%
 Gas flow/module: up to 500 m³/h (17,657 ft³/h) adjustable
 Convection modules: 7 top, max. 2 - 7 bottom
 • Preheating: 5 top / max. 5 bottom (option)
 • Soldering zone: 2 top / 2 bottom
 Nominal rating per module: 3.3 kW

Cooling:

Cooling zone: water recooling
 Coolant: water / air

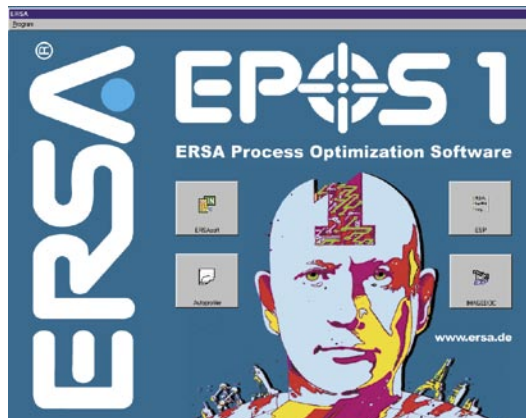
Ambient temperature: 10 - 35°C

Nitrogen option:

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

Safety devices:

- 1 main switch
- 4 Emergency-Stop buttons
- 2 Exhaust monitors
- 1 Two-hand approval system to close the hood
- 1 one fan monitoring per module



Electrical data:

Power: 5-wire system, 3 x 400 V, N, PE
 Power tolerance range: + 6 % , - 10 %
 Frequency: 50 / 60 Hz
 Max. fuse rating: 3 x 125 A
 Nominal rating: 33 kW - 59 kW (subject to configuration)
 Nominal current: 58 A (subject to configuration)
 Reduced rating: 40 kW

Exhaust rating:

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

Permanent noise level: <64 dB (A)

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