

# HOTFLOW 2/12

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



### ERSA HOTFLOW 2/12 - Excellent Price/Performance Ratio!

The new ERSAs 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 ERSAs for the HOTFLOW 2 series of quality reflow ovens.

The HOTFLOW 2/12 offers up to 1.7 meters heating length and up to 0,8 meters cooling length at a total process length of approx. 2.5 meters. Subject to your process specifications, the HOTFLOW 2/12 can be equipped with up to 12 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. 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 ERSAs HOTFLOW 2/12

● 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	○

### ERSAs Product Range

#### Soldering Tools

Soldering / Desoldering  
 • i-CON series

#### BGA / SMT Rework

IR Rework Center  
 • IR/PL 550 A  
 • IR/PL 650 A  
 Hybrid Tool HR 100 A

#### Inspection Systems

• ERSASCOPE *plus*  
 • ImageDoc Software

#### Soldering Systems

Wave soldering  
 • ETS series  
 • EWS series  
 • N-Wave series  
 • POWERFLOW series

#### Reflow soldering

• HOTFLOW series

#### Selective soldering

• VERSAFLOW series

#### Process Software

• EPOS  
 • CAD Assistant

#### Paste Printing

• VERSAPRINT series

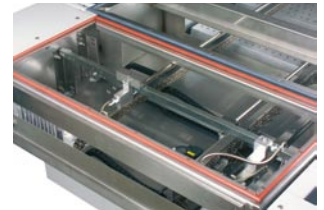
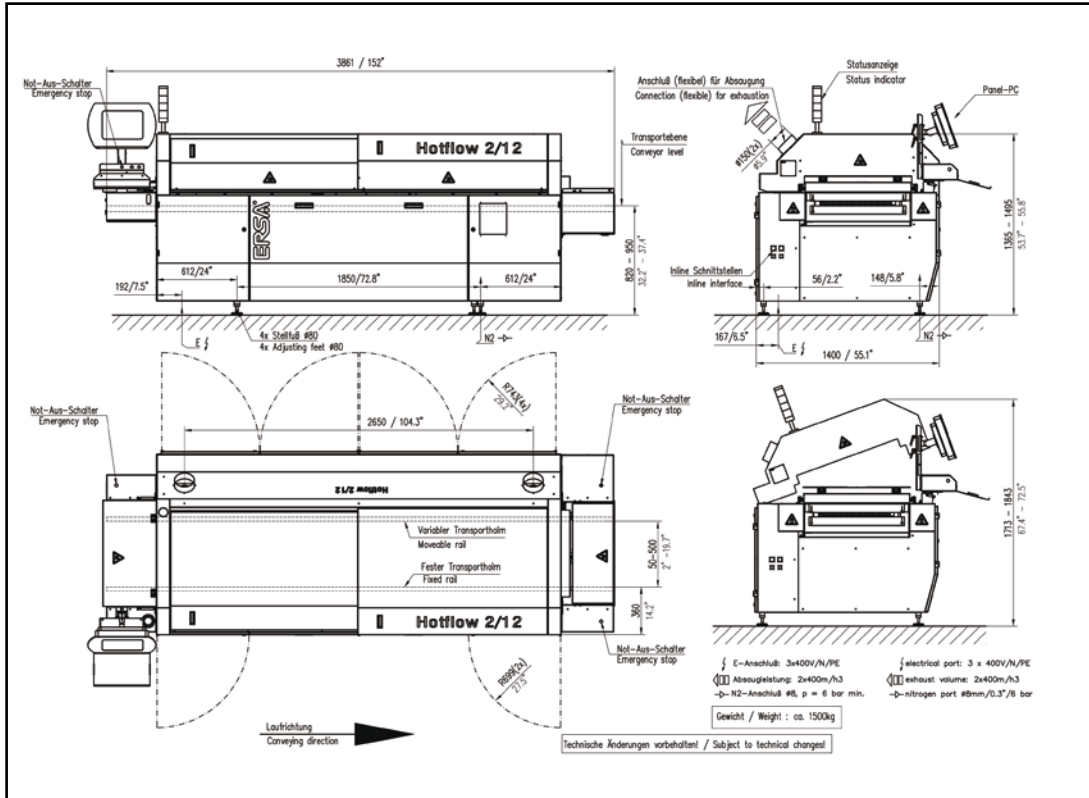
#### Accessories

• Solder bar & wire  
 • Solder paste  
 • Flux

#### Other Services

• Know-How Seminars  
 • In-house training  
 • Test soldering  
 • Installation & maintenance assistance  
 • Process support

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



### Dimensions (Basic machine):

Length: 3.890 mm (153")  
 Width: 1.390 mm (55")  
 Height: 1.370 - 1.500 mm (54" - 59")  
 Weight: approx. 1.400 kg (3,086 lb) incl. all options

**Paint:** RAL 7035 / 7016

### Conveyor system:

Working width: 50 - 500 mm (2 - 20")  
 Working width with PCB center support: 60-500 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") edge clearance,  
 2.85 mm (0.1") edge clearance available as an option

**Minimum board length:** 80 mm (4")

### Process zone:

Process length: 2,450 mm (96")  
 Heating zone: 1,650 mm (65")  
 Cooling zone: 800 mm (31")  
 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 300 m<sup>3</sup>/h (10,594 ft<sup>3</sup>/h) adjustable  
 Convection modules: 6 top, max. 2 - 6 bottom  
 • Preheating: 4 top / max. 4 bottom (option)  
 • Soldering zone: 2 top / 2 bottom  
 Nominal rating per module: 3.3 kW

### Cooling:

Cooling zone: water recooling  
 2 top-side cooling modules  
 Coolant: water / air

**Ambient temperature:** 10 - 35°C

### Nitrogen option:

Gas injection: in soldering zone  
 Gas flow: 0 - 30 m<sup>3</sup>/h (0 - 1,059 ft<sup>3</sup>/h)  
 Pressure control: 6 bar



### Safety devices:

- 1 main switch
- 2 Emergency-Stop buttons
- 2 exhaust monitors
- 1 two-hand approval system to close the hood
- 1 temperature monitoring per module

### Electrical data:

Power: 5-wire system, 3 x 400 V, N, PE  
 Power tolerance range: + 10 %, - 10 %  
 Frequency: 50 / 60 Hz  
 Max. fuse rating: 3 x 80 A  
 Nominal rating: 30 kW - 48 kW (subject to configuration)  
 Nominal current: 44 A  
 Reduced rating: 38 kW

### Exhaust rating:

Exhaust stacks: 2 stacks, 150 mm (6") diameter each  
 Exhaust volume per stack: 400 m<sup>3</sup>/h (14,126 ft<sup>3</sup>/h)

**Permanent noise level:** <70 dB (A)

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