

## Compact fume filtration at the workbench



### ERSA Clean Air – powerful, quiet, efficient and intelligent

The intelligent filter unit ERSA Easy Arm Extraction EA 110 *plus i* is a compact and powerful system to efficiently clean soldering process air at the workbench. Combined with up to two *i*-CON C or *i*-CON2 C soldering stations, connected with an interface cable, this filter system opens up a completely new dimension of intelligent solder fume filtration. The extraction unit is only working while at least one of the attached soldering stations is in operation. Do both *i*-CON units rest in the “standby” mode, the EA 110 *plus i* will automatically switch off. Filter usage times are increasing, energy costs and operation noise level will be significantly reduced to a minimum.

Due to its variable power control and high suction power, the unit can extract solder fume from up to two workbenches. The variable and easy to change mounting of the unit allows usage in any industrial environment

The solder fume filtration follows two stages: First a particle filter separates even floating particles from the process air. In the gas filter activated carbon

absorbs harmful gas molecules. A powerful blower guarantees a constant suction power during the entire filter life time. Filtration efficiently is controlled by a time control (filter life time) and by measurement of the suction power. A necessary filter exchange is indicated by optical and acoustical signals. If the filter is clogged completely the unit switches off automatically.

Filter exchange is very easy to handle by only lifting the units lid, changing the filter box and closing the system again.

Different suction nozzles are available for various working conditions. Each suction nozzle can easily be attached to the flexible suction arm enabling the user to adapt the EA 110 *plus i* to any new working conditions within seconds.

A very low noise level is another feature of this filter unit. Silent operation in a robust metallic case allows running the system in basically all industrial surroundings from electronic production to testing floor and laboratories.

### ERSA 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 and maintenance assistance  
 • Process support

## Compact fume filtration at the workbench

### Characteristics:

- Particle- and gas filtration
- Two flexible suction arms  $\varnothing$  55 mm connectable
- Integrated control unit
- Variable power control
- Automatic storage of suction power
- Optic and acoustic indication of low suction
- End of filter lifetime optically and acoustically indicated
- Auto switch off function
- Easy filter exchange
- Universal suction nozzles
- Interface to connect i-CON C soldering stations

### Technical data:

Dimensions:	460 x 210 x 470 mm 18.1 x 8.3 x 18.5 in
suction arms:	$\varnothing$ 55 mm / 2.165 in
Weight:	10 kg / 22 lb
Noise level (1m):	51 dB (A) (free running)
Suction power:	140 m <sup>3</sup> /h (83 cfm)
Vacuum:	up to 0.022 bar (22 mbar)
Particle filtration:	>99.97 % (DOP / HEPA)



Gas filter:	activated carbon
Power supply:	100 - 250 V, 50/60 Hz
Consumption:	100 W
Fuse:	2 x 6,3 AT



i-CON C with interface to EA 110 plus i



Table holder for EA 110 plus i

### Ordering information:

0CA08-002	<b>Basic unit:</b> ERSA Easy Arm Extraction EA 110 <i>plus i</i> filter unit for particle and gas filtration
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0IC1000A0C	<b>Soldering stations:</b> electronically controlled soldering station with interface, antistatic, 230/24 V, 80 W
0IC2000A0C	electronically controlled soldering station with interface, antistatic, 230/24 V, 120 W

3CA06-9001	<b>Accessories / spare parts:</b> Table clamp for filter unit EA 110 <i>plus i</i>
3CA06-1001	Spare filter for ERSA Easy Arm Extraction EA 110 <i>plus i</i> filter unit (Exchange every 1,500 h, latest)
3CA06-2002	Connecting hose with quick coupling 3CA06-9003
3CA06-9003	Quick coupling for connecting hose
3CA06-9004	Quick coupling for EA 110 <i>plus i</i> and extraction arm
0CA08-3004	Interface cable set for EA 110 <i>plus i</i>

### Extraction arms:

	3CA06-4001 Extraction arm with 700 mm flexible hose, incl. connecting hose, table mounting and quick coupling
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	3CA06-4002 Extraction arm 1,000 mm flexible hose (to be installed directly at the EA 110 <i>plus i</i> filter unit) with 2 quick couplings
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### Extraction nozzles for extraction arms:

	3CA06-5001 Metal extraction nozzle, 50 mm $\varnothing$
	3CA06-5002 Antistatic extraction nozzle, transparent, 215 x 90 mm
	3CA06-5004 Extraction nozzle "Plus", ESD, 215 x 90 mm
	3CA06-9006 Stop valve for extraction arm

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