

The JBC logo is displayed in a bold, red, sans-serif font. It is positioned at the top center of the image, above the company name. The background of the entire image is a close-up, high-contrast photograph of a JBC soldering station. A green-handled soldering iron is shown in the foreground, with its tip touching a component on a circuit board. A small amount of white smoke is rising from the point of contact. In the background, the control unit of the soldering station is visible, featuring a digital display screen and several buttons. The overall aesthetic is professional and technical.

The Soldering Co.

Fume Extractor

A healthy workplace is our priority



Most efficient solution.
FAE only operates when soldering and features a unique vacuum system integrated into the stand.



Suction in use

Fume Extractor **starts up when the tool is lifted from the stand**. This function saves power and extends filter life.



Suction in the stand

JBC Fume Extractor has an integrated vacuum system that detects **when the tool is returned to the stand and automatically absorbs excess of fumes**.

3 working modes

Station

When the tool is lifted from the stand, the fume extractor starts aspirating. Once the tool is returned to the stand and goes into Sleep Mode, the stand absorbs the excess fumes.

Pedal

You can activate the vacuum system with the pedal without a connection to a JBC Station.

Continuous Mode

The fume extractor's aspiration remains active, independently of the tool or pedal status.

Intelligent control when connected to JBC Stations

2 flexible arm suction tubes can be used simultaneously on two workbenches.

4 levels of aspiration depending on requirements: low, medium, high & customized.

Auto-control of the airflow depending on the number of aspiration tubes in use and filter saturation.

workbench 1

Flexible arm suction tube or Stand suction tube (up to 4 stands)

workbench 2

Flexible arm suction tube or Stand suction tube (up to 4 stands)

Process Screen

Set up and control the equipment through an intuitive menu. There are many connection possibilities to suit your working needs.

Connections

- RJ12 Connector (control unit and station connections)
- USB-B Connector (firmware update)
- Jack Connector (pedal connection)



Filter saturation indicator

The unit has a LED warning to know when it's time to replace the pre-filter or the compact filter. If the unit is connected to a station, the warning message will also appear on the station's display.

Green: Filter OK
Yellow: ≤ 20% Carbon lifetime or about to saturate
Red: End of Carbon lifetime or filter saturated.



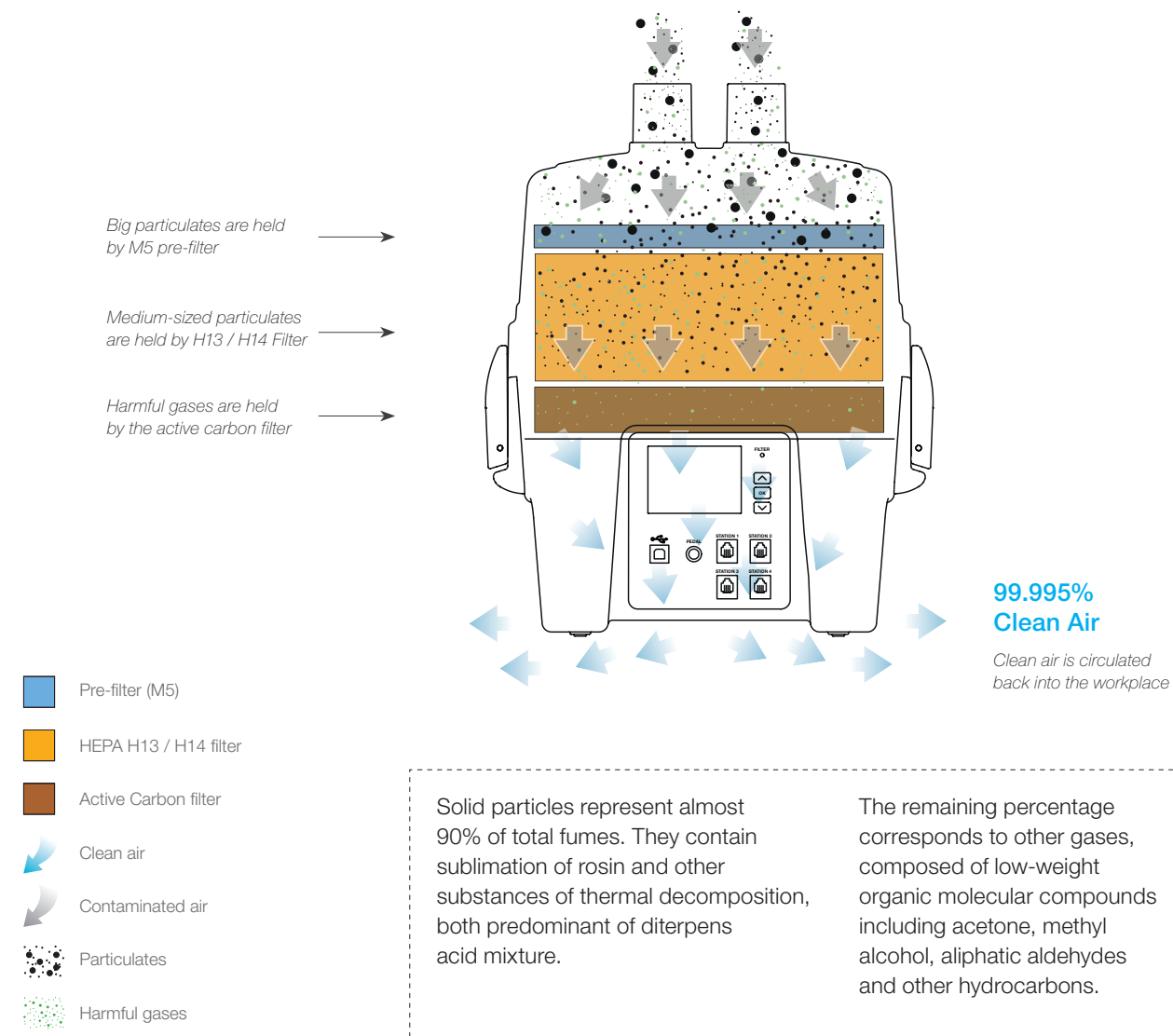
Why use JBC Fume Extractor?

Avoid exposure to solder fumes

Health risks come with extended exposure to solder fumes.

Depending on the particle size, the fume can affect different parts of the respiratory system.

It is **important to use the correct safety equipment** to remove these hazardous substances.



High-efficiency filters to remove even the smallest particles

The combination of the three-layer filter system achieves a certified filtering efficiency of up to 99.995% for soldering fumes in accordance with the EN 1822 standard.

There are two filter options available depending on your needs:

FAE1100 Filter
(FAE1110 Pre-Filter + HEPA H13 + Carbon)

FAE1200 Filter
(FAE1110 Pre-Filter + HEPA H14 + Carbon)



Pre-Filter

FAE1110 Pre-Filter retains **large solid particles** in order to protect H13 or H14 filters and extend its lifetime.

Average efficiency for particles of 0.4 μm : 40-60% (in accordance with EN 779).



Active Carbon filter

It **absorbs those gas molecules** which, due to their size, HEPA filter is not able to filtrate.

Active carbon is a good filter aid because of its highly porous structure. In order to improve efficiency, different factors are taken into account. Generally, the lower the air flow rate, the more times the fumes have to diffuse into a pore and be absorbed.



HEPA filter

HEPA filter (High-Efficiency Particulate Air) **filters out the remaining solid particles.**

HEPA H13 - it has an efficiency for MPPS * $\geq 99.95\%$ (in accordance with EN 1822).

HEPA H14 is used in environments demanding exceptionally high levels of air purification, such as clean rooms. Efficiency for MPPS * $\geq 99.995\%$ (in accordance with EN 1822).

* MPPS (Most Penetrating Particle Size) corresponds to the particle size at which the filter has a lower efficiency. The MPPS depends on the filter and the air flow, although usually it lies between 0.1-0.3 μm .



For a basic **working system**

Each aspiration arm independently offers 80m³/h aspiration, providing optimal fume extraction for two workbenches simultaneously.

FAE1 KIT1 Fume Extractor Kit for 1 workbench

Accessory for Stand Suction

You can connect up to 4 tool stands per port to avoid solder fumes when the tool is not being used.

FAE030

Collector Flange

Suction for up to 4 stands (hole drilling required).

FAE040

Collector Flange with clamp

Includes a clamp to fix it in place.

Stand Suction Duct

The system detects when the tool is returned to the stand and the vent absorbs the fumes automatically.

FAE060

Fume Aspiration Duct for Compact Stations

Length: 106 mm / 4.17 in.

FAE050

Fume Aspiration Duct for Modular Stands

Length: 106 mm / 4.17 in.

FAE010

Flexible Hose

Flexible extraction hose which connects Fume Extractor to FAE020 / FAE070 and FAE030 / FAE040
Length: 1.5 m / 59 in (unfolded).

FAE1

Fume Extractor with FAE1100 for 1 Workbench

Achieves a certified efficiency of 99.95% in filtering soldering fumes, meeting EN 1822 standards.

FAE1P

Fume Extractor with FAE1200 for 1 Workbench

The best solution to avoid exposure to solder fumes where extremely high air purification is required (efficiency of 99.995% in filtering soldering fumes, meeting EN 1822 standards).

FAE1 KIT2 Fume Extractor Kit for 2 workbenches

Flexible Arm

Completely flexible arm to be adjusted to your workbench

FAE020

Flexible Arm

Hole drilling is required.
Length: 0.94 m / 37 in (compressed).

FAE022

Flexible Arm

Hole drilling is required.
Length: 1.2 m / 47.24 in (compressed).

FAE070

Flexible Arm with clamp

Includes a clamp to fix it in place.

FAE072

Flexible Arm with clamp

Greater coverage and increased durability.

Specifications

Dimensions	380 x 340 x 475 mm / 14.9 x 13.3 x 18.7 in	Blower type	Brushless
Weight	10.87 Kg / 23.96 lb	Flow rate	230 m³ / h (135 CFM)
Ref. / Voltage (AC)	FAE1-1C / FAE1-1PC - 120 V 50 / 60 Hz. Fuse 4A FAE1-2C / FAE1-2PC - 230 V 50 / 60 Hz. Fuse 2.5A FAE1-9C / FAE1-9PC -100 V 50 / 60 Hz. Fuse 4A	Vacuum	4.3 kPa (0.62 psi) - 120V 6 kPa (0.87 psi) - 230 V 3.2 kPa (0.46 psi) - 100V
Input power	270 W - 120 V 300 W - 230 V 200 W - 100 V	Filters	Pre-filter M5 (according to Norm EN 779)* HEPA H13 / H14 (according to Norm EN 1822)** Activated Carbon Filter
Work areas (Workbenches)	1 or 2	Noise	55 dB @ 1m

*M5 Quality according to Norm EN779

**Delivered with a test certificate according to Norm EN 1822-4

