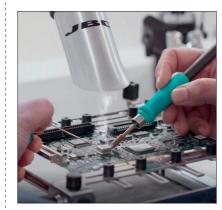






Most efficient solution. It only operates when soldering and features a unique system integrated into the stand.



## Aspiration in use

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



#### Aspiration 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

The valve in the working area opens when the tool is lifted from the stand.

Once the tool is returned to the stand and goes to Sleep Mode, the valve in the work area closes and the stand valve opens. After a period of inactivity on both ports, the unit stops.

#### Pedal

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

#### Continuous mode

When activated, the four aspiration intakes are opened and Fume Extractor suction is operating.

# Intelligent control when connected to JBC

**Stations** 

## 2 separate aspiration inlets

can be used simultaneously in 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.



Filter saturation indicator

Green: Filter OK

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

around easily.



# For a basic

# working system

Connect up to four stations through RJ12 connector. Compact Stations can be connected using RJ12-USB-A adapter included.

#### Flexible arm

The fume extractor automatically regulates the airflow depending on the number of aspiration tubes in use and the filter saturation.

#### FAE020 Flexible Arm Ø50 mm

Completely flexible arm to be fitted to your workbench (hole drilling required). Length: 0.94 m / 37 in (compressed).

FAE070 Flexible Arm Ø50 mm + clamp Includes a clamp to fix it in place.

#### Accessory for stand aspiration

This robust unit can be used simultaneously in two work areas. You can also connect up to 4 tool stands per port to avoid solder fumes when the tool is not being used.

#### FAE030 Accessory for Stand Aspiration

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

FAE040 Accessory for Stand Aspiration + clamp Includes a clamp to fix it in place.



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

# FAE060 Fume Inlet Duct

for Compact Stations

Connect the stand aspiration accessory to Compact Stations. Length: 106 mm / 4.17 in.

#### FAE050

#### **Fume Inlet Duct** for Modular Stands

Connect the stand aspiration accessory to Stands. Length: 106 mm / 4.17 in.



#### FAE010 Flexible Hose Ø50 mm

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

## Specifications

ı	
Dimensions	560 x 320 x 590 mm / 22.05 x 12.59 x 23.23 in
Weight	33.6 Kg (74.08 lb)
Ref. Voltage (AC)	<b>FAE2-5B</b> 100 V - 120 V - 230 V 50 / 60 Hz
Nominal Power	500 W (120 - 230 V) 320 W (100V)
Fuse	8 AT
Blower type	Brushless

#### FAE2 Fume Extractor for 2 workbenches

/lax. Flow rate	290 m <sup>3</sup> / h (10241.25 f <sup>3</sup> / h)
Лах. Vacuum	6.1 KPa / 0.88 psi
	Pre-filter M5 (according to Norm EN 779)*
Filters	HEPA H13 (according to Norm EN 1822)**
	Carbon
/ork areas	2 or 4
oise	54 dB

## Specifications

Specifications	
Dimensions	558 x 292 x 562 mm (22 x 11.5 x 22.1 in)
Weight	33.6 Kg (74.08 lb)
Ref. / Voltage (AC)	<b>FAE1-1B</b> / 100 V - 120 V 50 / 60 Hz <b>FAE1-2B</b> / 230 V 50 / 60 Hz
Nominal Power	105 W - 135 W (100 - 120 V) 115 W (230V)
Fuse	8 AT
Blower type	Brushless

#### FAE1 Fume Extractor for 1 workbench

Max. Flow rate	180 m <sup>3</sup> / h (106 CFM)
Max. Vacuum	3.2 KPa (0.46 psi)
Filters	Pre-filter M5 (according to Norm EN 779)* HEPA H13 (according to Norm EN 1822)** Carbon
Work areas	1 or 2
Noise	55 dB @ 1m
*M5 Quality according to Norm EN77	

<sup>\*\*</sup>Delivered with a test certificate according to Norm EN 1822-4





# Why use **JBC Fume** Extractor?

Big particulates are held

Medium-sized particulates

are held by the H13 Filter

Harmful gases are held

by the active carbon filter

by the pre-filter M5

## Avoid exposure to solder fumes

Health risks come with extended exposure to solder fumes, so it is important to use the correct safety equipment to remove these hazardous substances.

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

- This is one of the main causes for occupational asthma.
- It may cause eye and throat irritation.
- The flux may cause dermatological problems.

# 99.95% Clean Air Clean air is circulated back into the workplace

Solid particles represent almost 90% of total fumes. They contain sublimation of rosin and other substances of thermal decomposition, both predominant of diterpens acid mixture.

The remaining percentage corresponds to other gases, composed of low-weight organic molecular compounds including acetone, methyl alcohol, aliphatic aldehydes and other hydrocarbons.

# High-efficiency filters to remove even the smallest particles

The combination of the three-layered filter system reaches a certified filtering efficiency of soldering fumes up to 99.95% in accordance with norm EN 1822-4.



#### FAE2100

FAE2110

Filter for FAE2



#### Pre-filter M5 It retains large solid particles in order to protect the H13 filter

and extend its lifetime.

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

#### ► HEPA filter H13

The HEPA filter (High-Efficiency Particulate Air) filters out the remaining solid particles. Efficiency for MPPS \* ≥ 99.95% (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.

# Active Carbon filter

The active carbon filter **absorbs** those gas molecules which, due to their size, the 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.







Pre-filter (M5)

HEPA H13 filter

Active Carbon filter



Particulates

Harmful gases







