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- Air-purifying fume extractor realizing powerful suction with quiet operation
- Freestanding flexible ducts facilitate production changeovers
- Three airflow levels are selectable according to working environments

## Specifications

<b>Model No.</b>	<b>FA430</b>
<b>Power consumption</b>	120W
<b>Noise level</b>	50dB
<b>Maximum suction capacity</b>	with single duct : MAX. 4.1m <sup>3</sup> /min. (145cFm) with two ducts : MAX. 4.7m <sup>3</sup> /min. (167cFm)
<b>Filtering efficiency</b>	99.97% 0.3μm (LOW, MEDIUM mode) 99.96% 0.3μm (HIGH mode)
<b>Dimensions</b>	330(W)×366(H)×343(D)mm
<b>Weight</b>	7.5kg
<b>Static pressure</b>	1500Pa
<b>Duct set (sold separately)</b>	Length of duct : Φ55mm×1.2m (ESD SAFE)

\* It is an initial value of collection efficiency based on counting method for airborne dust collected by a single plate of filter (unfolded).

\* Noise level is measured at a distance of 1 meter from the face of FA-430 in an anechoic chamber.

\* Net is not ESD-safe.

## Packing List

<b>Product</b>	<b>Packing List</b>
HAKKO FA-430	Main unit, Power cord, Cap, Main filter, Pre-filters (x10), Instruction manual
Duct Set C1571 (With rectangular nozzle)	Duct, Adapter, Rectangular nozzle, Net, Instruction manual
Duct Set C1572 (With round nozzle)	Duct, Adapter, Round nozzle, Net, Instruction manual

## Features

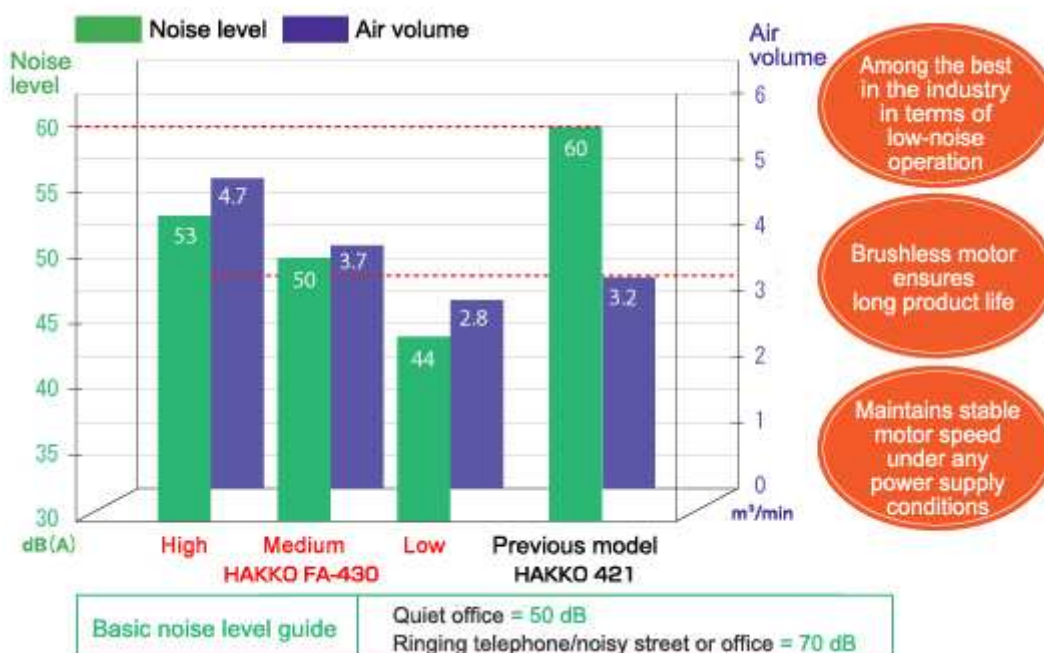
Quiet operation and powerful suction.

Exhaust noise has been reduced without sacrificing suction performance by the addition of a silencer unit to the exhaust outlet to ensure smooth air outflow. A high-performance motor with 1,500 Pa of static pressure provides powerful suction and quiet operation.

	<b>HAKKO FA-430</b>		<b>Previous model (HAKKO 421)</b>	
	<b>Noise level dB (A)</b>	<b>Air volume m<sup>3</sup>/min</b>	<b>Noise level dB (A)</b>	<b>Air volume m<sup>3</sup>/min</b>
<b>High</b>	53	4.7		
<b>Medium</b>	50	3.7	60*	3.2*
<b>Low</b>	44	2.8		



\*Values measured when the unit was used with a 60 Hz power supply.



Notes regarding graph:

The HAKKO FA-430 features significantly reduced noise level in medium airflow mode despite the fact that suction performance remains almost unchanged compared to the previous model. High airflow mode also provides quieter operation than the previous model.

\*Suction performance values are for when two ducts are used.

\*Measured values for HAKKO 421 were taken when the unit was used with a 60 Hz power supply.

Catch harmful smoke with freestanding ducts and adjustable air volume to suit your working environment

Is your smoke absorber affected by air conditioning? Are you fed up with having to re-adjust ducts after every line change? The HAKKO FA-430 fume extractor is the answer to your problems.

Airflow adjustment

Three airflow modes are available: High, Medium, and Low. Significantly improve your working environment by using an airflow volume that suits the worksite and the job.

- Low mode: Not easily affected by the surrounding environment. For use in small, quiet locations. (For when low-noise operation is a priority.)
- Medium mode: For normal use.
- High mode: For use in locations that are significantly affected by the surrounding environment. (For when suction performance is a priority.)

What do you mean by "surrounding environment"?

Smoke flows in unexpected directions due to a variety of factors; not just because of the influence of air conditioning. High mode is recommended if your worksite is situated near a doorway, in a spot where people continuously pass by, near the exhaust outlet of a large machine, or in a similar location. It is possible to use low mode in laboratories and other places where these kinds of influences are limited.

Freestanding ducts

Ducts can be bent or lengthened as desired and maintain their shape after adjustment, letting you place them exactly where suction is needed. Say goodbye forever to ducts that are long, heavy, and hard-to-handle.

	<b>Length</b>	<b>Weight</b>
<b>Duct for HAKKO FA-430</b>	1.2 m	0.6 kg



Photo above:  
Bends and stretches freely for perfect placement!

Photo on left:  
Lightweight and compact, the HAKKO FA-430 weighs only 7.5 kg. Built-in handles allow the fume extractor to be moved easily, facilitating line changeovers.

\*HAKKO FA-430 weighs 35% less than previous models.



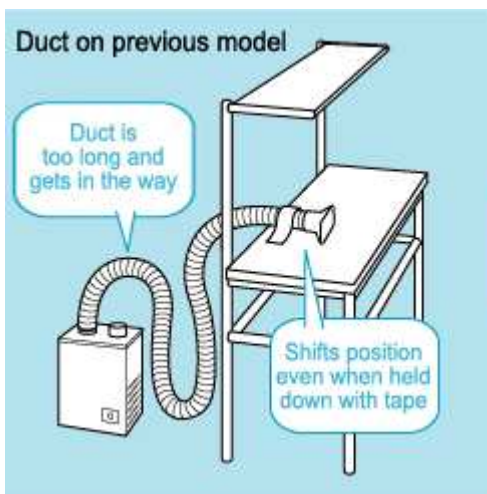
If the duct is mounted at an angle above the workpiece, it is easily affected by air conditioning



If the duct is mounted directly above, it can be difficult to see the workpiece



Duct is mounted on the worktable to provide excellent suction performance



Filter replacement notification function ensures excellent trapping efficiency can be maintained at all times

No matter how sophisticated a fume extractor is, if the filter is not replaced at the correct time, it will not be able to give maximum performance. The HAKKO FA-430 detects the number of fan revolutions and notifies the operator of the appropriate time to replace the filter, guaranteeing a comfortable working environment.

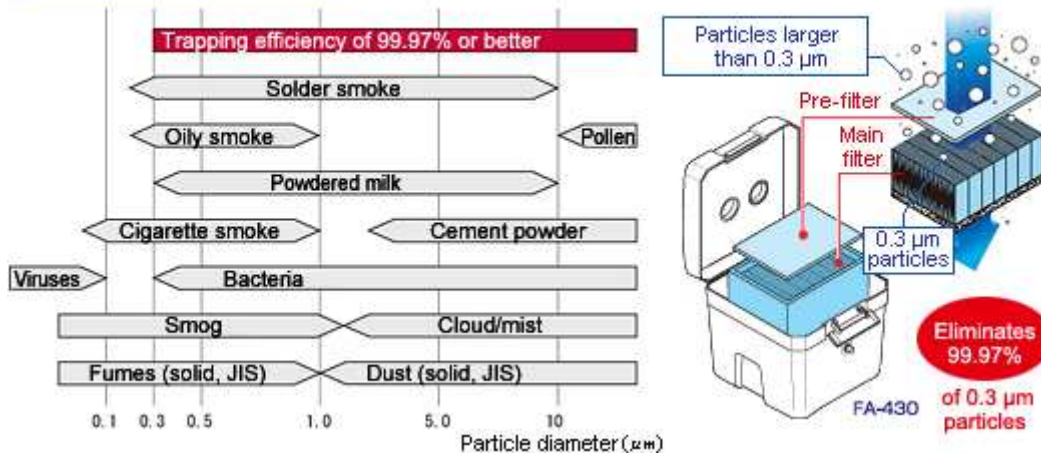
- Pre-filter  
When the pre-filter is 80% clogged or has been used for 200 hours, the orange indicator flashes on and off.



- Main filter  
When the 10th pre-filter needs replacing, the orange and red lamps flash on and off.



### Aerosol particle diameter range



## Usage / Applications

Proper installation of the pre-filter

- Proper installation  
Install the pre-filter inside the frame of the main filter as shown in image 1.  
Be sure to check that there are no gaps at the corners as shown in image 2.

Image 1



Image 2



- Improper installation  
If the pre-filter is not installed properly as shown in images 3 and 4, the main filter will degrade its original performance quickly.




Image 3












Image 4



## Replacement Parts

	Part No.	Name	Specifications
	A1573	Main filter	
	A1572	Pre-filter	set of 10
	B3619	Cap	

## Option

	Part No.	Name	Specifications
	C1571	Duct set	w/ rectangular type
	C1572	Duct set	w/ round type
	B3642	Duct	Φ55mm×1.2m
	B3620	Adapter	
	B3621	Adapter	3 inch
	B3622	Nozzle/rectangular type	
	B3623	Nozzle/round type	
	B3625	Net	set of 5
	B2410	Duct/2m	Φ75mm×2m

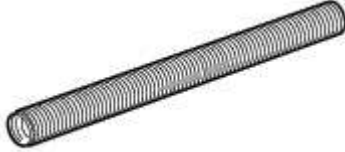



B2416 Duct band set of 2






B2418 Bench top plenum/clear

-When using an independent duct

Part No.	Part Name	Notes
B3642	Duct	<p>ø55 x 1.2 m</p>  <p>For attaching duct to main unit.</p>
B3620	Adapter	




-Choose from one of 2 types of nozzles for the independent duct.

Part No.	Part Name	Notes
B3622	Nozzle, rectangular	<p>For absorbing smoke from the side.</p>  <p>For absorbing smoke from above.</p>
B3623	Nozzle, round	 <p>For preventing contaminants from being absorbed. (Mesh dimensions: Approx. 10 mm × 10 mm)</p>
B3625	Net (5 per pack)	

-When using a bench top hood



The benchtop hood detailed below requires the separate purchase of a different sized duct, duct band, and 3-inch adapter.

Part No.	Part Name	Notes
B2418	Benchtop hood	For stopping smoke from escaping upwards without being affected by air conditioning.  *Requires $\phi 75$ duct, duct band (B2416), and 3-inch adapter (B3621). Required when using benchtop hood.
B2410	Duct	 * $\phi 75$ x 2 m. Not freestanding. Required when using benchtop hood.
B2416	Duct band	 Required when using benchtop hood and $\phi 75$ duct.
B3621	Adapter (for 3-inch duct)	