



AL-KO
QUALITY FOR LIFE

WELDING FUME – AND DUST FILTER SYSTEMS

AL-KO FLEX UNIT / FLEX UNIT ECO AND CLEAN UNIT

MORE THAN CLEAN AIR




MADE IN GERMANY

THEREBY YOU WILL NOT JUST BREATHE FREELY BUT

AL-KO FLEX UNIT

The AL-KO FLEX UNIT modular system guarantees a high level of flexibility. The filter system can be adapted or expanded according to requirements using standard components. The entire structure is acoustically and thermally insulating. The prefabricated AL-KO FLEX UNIT housings guarantee quick and easy assembly on the spot.

Depending on the requirement, the modular system offers various disposal options – from waste containers to rotary lock valves and even filling silos. The AL-KO FLEX UNIT gives you consistent quality all the time (according to DIN ISO 9001) with excellent value for the money.



YOUR BENEFITS

- | High suction performance and optimum filtration
- | Wide application range
- | Quiet and energy efficient
- | Extendable
- | Low space requirement
- | Short delivery times



THE AL-KO HIGH-PERFORMANCE FILTER SYSTEM „AL-KO OPTI JET”

The optimum combination of surface filtration and jet cleaning makes it possible to maintain a residual dust content of less than 0.1 mg/m³ on a long-term basis.

Surface filtration separates swarf and dust at the surface of the filter material, meaning that the particles cannot even penetrate the filter medium in the first place. During the filtration phase, the filter material makes contact with the support cage and forms a star-shaped cross section.

In jet cleaning, the second component of the AL-KO OPTI JET® process, the bag filter is returned to its original shape using a

compressed air pulse, as a result of which the filter cake is blasted off the surface and the ultrafine dust is thrown out.

Your benefits:

- | Contaminated air impacts onto the filter element from the outside
- | "Real" surface filtration by special treatment of the filter surface
- | Improved cleaning by injection – longer filter service life
- | Latest BIA test certificates for dust class M
- | Optimum air permeability
- | Filter electrically conductive as standard



GUARANTEED SAVING MONEY

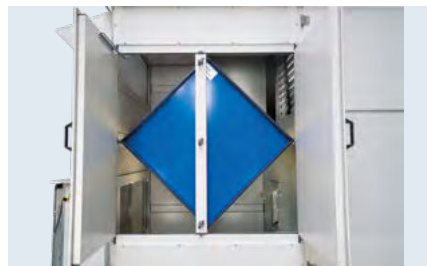
AL-KO FLEX UNIT ECO

- | Efficient and economical:
Large air surge tank with fast diaphragm valves for effective OPTI JET® filter cleaning and lowest use of compressed air
- | So simple and yet so effective: OPTI JET® dedusting and filter bag with bayonet fitting for easiest handling
- | 100% fresh air supply prevent long-term odour nuisance



YOUR BENEFITS

- | Unique combination of extraction and heat recovery
- | Low space requirement
- | Quiet and energy efficient
- | Optimum energy efficiency



TECHNICAL DATA

Type	D 78-7.5	D 234-22	F 126-7.5	F 378-22
Art. no.	197 450	197 453	197 458	197 461
Nom. motor rating extraction unit	7.5 kW	2 x 11 kW	7.5 kW	2 x 11 kW
Nom. motor rating supply air HRU	4.5 kW	2 x 4.5 kW	4.5 kW	2 x 4.5 kW
Connection voltage	400 / 50 Hz	400 / 50 Hz	400 / 50 Hz	400 / 50 Hz
Max. flow rate	5,200 m ³ /h	18,000 m ³ /h	5,200 m ³ /h	18,000 m ³ /h
Max. vacuum	2,800 Pa	2,800 Pa	2,800 Pa	2,800 Pa
Filter area	78 m ²	234 m ²	126 m ²	378 m ²
Sound pressure level	65 dB(A)	66 dB(A)	65 dB(A)	66 dB(A)
Dimension (L/W/H) in mm	4,088 x 1,414 x 3,103	4,850 x 2,714 x 3,103	4,088 x 1,414 x 3,103	4,850 x 2,714 x 3,103

Other size available. F models for welding fume extraction, D models for dust extraction.

AL-KO CLEAN UNIT

AL-KO filter units serie CLEAN UNIT are universally applicable to extract chips, dust as well as welding fume in metal and plastic industry and many other sectors. They combine high reliability with a compact and space-saving design. They create ideal production conditions with healthy air in the workplace, are unusually quiet and help to achieve significant cost savings. All sizes are designed to offer the optimum combination of maximum extraction power and the lowest

possible energy consumption. Furthermore, the tried-and-tested AL-KO OPTI JET® process guarantees filter cleaning, and consequently increased filter service life. They are delivered readyfor connection, all you need is to insert the swarf bag.



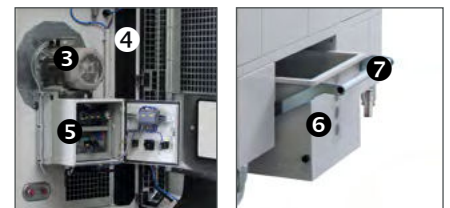
YOUR BENEFITS

- | High suction performance, long filter service life
- | Flexible to use
- | Quiet and energy efficient
- | Easy dust disposal



- ❶ Large air surge tank with fast diaphragm valves for optimum JET filter cleaning and lowest use of compressed air
- ❷ Filter cartridge made of antistatic polyester needle felt material (BGIA-tested for dust class M) as standard with bajonet catch for easy handling
- ❸ Energy-efficient motors according to IE3 as standard, alternatively also according to IE4 or higher quality

- ❹ Sound-insulated air recirculation for optimum noise emission values
- ❺ PLC control; manual and automated operation possible; can be extended with many options (e.g. machine recognition; slide valve control; frequency controlled operation and many more functions besides)
- ❻ Viewing window for easy fill level check
- ❼ Ergonomically shaped clamping lever for simple container locking



APPLICATION

Thanks to the proven AL-KO extraction program, we can offer you a customized suction solution for almost every application and every special requirements. AL-KO extraction systems are designed for the following application areas.



Metal



Welding fume



Stone materials



Plastic materials

AL-KO CLEAN UNIT

ADDITIONAL ADVANTAGES

- | Equipment with different filter media
- | Special voltage on request
- | Additional variants for pre-separation
- | Simple exhaust air duct connection
- | Castors in the standard for positioning on the workplace
- | Integrated lifting point for fork lift
- | Crane eyes installed
- | Extensive control options also with frequency converter
- | Various discharge systems available (Briquet press, rotary feeder, etc)
- | Dust-free container removal by AL-KO DUST COMPARTMENT (option)
- | Made for single - and multi-user extraction
- | VENTURI-nozzle in the standard for optimum filter cleaning
- | Optionally with spark pre-separator



CLEAN DUST COMPARTMENT

The AL-KO DUST COMPARTMENT, the simple and inexpensive solution for greater cleanliness and health protection in the workplace.

The advantages for you:

- | Easy to operate
- | Dust-free wind-up during container changes
- | Bag removal with lifting machine
- | Optimised health protection



TECHNICAL DATA

Type	D 26-2.2	D 68-7.5Ex	F 42-2.2	F100-7.5W3*
Art. no.	197 410	197 445	197 414	197 417
Extraction nozzle	160 mm	300 mm	160 mm	300 mm
Nominal motor rating	2.2 kWh	7.5 kW	2.2 kWh	7.5 kW
Connection voltage	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Max. flow rate	2,200 m ³ /h	6,000 m ³ /h	2,200 m ³ /h	6,000 m ³ /h
Max. vacuum	2,800 Pa	4,000 Pa	2,800 Pa	4,000 Pa
Filter area	26 m ²	68,8 m ²	42 m ²	100 m ²
Swarf collection capacity	150 L	150 L	150 L	150 L
Sound pressure level	70 dB(A)	72 dB(A)	70 dB(A)	72 dB(A)
Dimension (L/W/H) in mm	1,660x1,106x2,075	1,915x1,106x2,075	1,660x1,106x2,075	1,915x1,106x2,075
Weight	450 kg	621 kg	450 kg	621 kg

*registered for the exam

Other size available. F models for welding fume extraction, D models for dust extraction.

AL-KO EXTRACTION TECHNOLOGY – YOUR STRONG PARTNER

In Europe and across the world, thousands of customers choose quality products from AL-KO Extraction Technology every year. Their popularity and the faith in us prove that even today, products bearing the “Made in Germany” label have a future - if they are consistently based on innovation and superior quality.

Look to the future with us and, as our customer and partner, profit from the performance, the quality and the security offered by the AL-KO brand.

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Figures show configuration examples which are not available in every market.
Please ask your AL-KO advisor.

Subject to modifications in response to technical developments.
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