

AL-KO

QUALITY FOR LIFE

WELDING FUME – AND DUST FILTER SYSTEMS AL-KO AFU / AFU-ECO AND AFU 15-50

**THEREBY YOU WILL NOT JUST BREATHE FREELY
BUT GUARANTEED SAVING MONEY.**



■ MADE
■ IN
■ GERMANY

THEREBY YOU WILL NOT JUST BREATHE FREELY BUT

AL-KO AFU

The AL-KO FUME 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 FUME 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 FUME UNIT gives you consistent quality all the time (according to DIN ISO 9001) with excellent value for the money.



YOUR BENEFITS

- | Individual solution with cost-effective standard components
- | AL-KO OPTI JET® technology for cleaner air, less downtime and lower energy consumption
- | Security of investment as the system can grow and change along with the business
- | Integrated insulation for minimal temperature loss
- | Integrated fire and explosion protection



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.

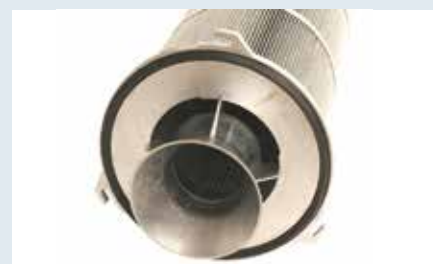
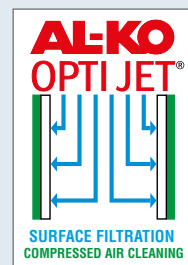
Surface filtration separates swarf and dust at the surface of the filter material, meaning that the particles cannot even penetrate the filter medium in the first place. During the filtration phase, the filter material makes contact with the support cage and forms a star-shaped cross section.

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 AFU-ECO

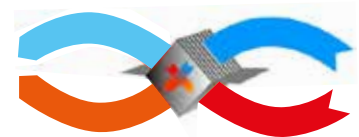
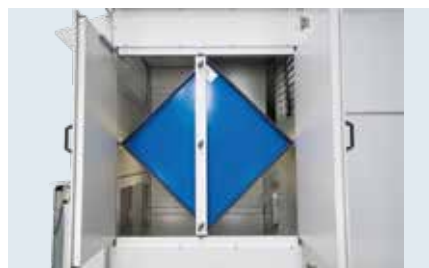


- | Efficient and economical:
Large air surge tank with fast diaphragm valves for effective OPTI JET® filter cleaning and lowest use of compressed air
- | So simple and yet so effective: OPTI JET® dedusting and filter bag with bayonet fitting for easiest handling
- | 100% fresh air supply prevent long-term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



YOUR BENEFITS

- | Energy saving by heat recovery and frequency converter
- | Low space requirement
- | Simple maintenance access
- | Low noise emission
- | Individual control features
- | Individual expandable
- | BAFA-eligible



TECHNICAL DATA: AFU-ECO

Supply air section		TYPE 1	TYPE 2	TYPE 3	TYPE 4
Fan (EC radial fan)	kW	3.0	5.5	2 x 3.0	2 x 5.5
Air volume	m ³ /h	5,200	9,000	10,400	18,000
Vacuum at nominal rate	Pa	1,100	900	1,100	900
Exhaust air section					
Fan	kW	7.5	11.0	2 x 7.5	2 x 11.0
Filter loading	m ³ /m ² /h	53	48	41	43
Air volume	m ³ /h	5,200	9,000	10,400	18,000
Vacuum at nominal rate	Pa	2,700	2,700	2,700	2,700
Heat recovery					
Efficiency	%	60 - 67	61 - 66	60 - 67	61 - 66
Dimensions (W x D x H)	mm	4,182 x 1,306 x 2,821	4,472 x 1,413 x 3,182	4,182 x 2,612 x 2,821	4,933 x 2,715 x 3,107

AL-KO AFU 15-50

AL-KO filter units serie AFU 15-50 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 ready for connection, all you need is to insert the swarf bag.



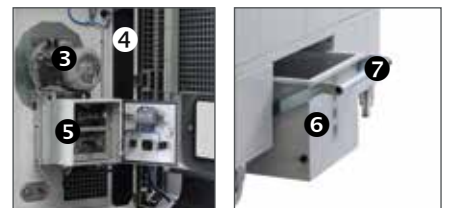
YOUR BENEFITS

- | High extraction performance
- | Compact design
- | Integrated pre-separator and extendable control system
- | Optimum filter dedusting
- | Minimum noise level
- | Container move left/ right possible



- 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

- 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 AFU 15-50

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

Model	AFU 15	AFU 25	AFU 35	AFU 50
Suction nozzle	160 mm	200 mm	250 mm	300 mm
Motor performance	2.2 kW	4.0 kW	7.5 kW	7.5 kW
Voltage	400 V / 3 Ph	400 V / 3 Ph	400 V / 3 Ph	400 V / 3 Ph
Max. volume flow	2,200 m³/h	3,200 m³/h	5,000 m³/h	6,000 m³/h
Vacuum	2,800 Pa	3,200 Pa	3,800 Pa	4,000 Pa
Number of filter	2	2	4	4
Filter area	42 m²	42 m²	84 m²	84 m²
Swarf collection volume	150 L	150 L	150 L	150 L
Sound pressure level	70 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)
Dimensions (L / W / H)	1,908 x 1,058 x 2,113 mm	1,908 x 1,058 x 2,113 mm	1,908 x 1,058 x 2,113 mm	1,908 x 1,058 x 2,113 mm
Weight	392 kg	412 kg	460 kg	470 kg

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.

Provided by your AL-KO partner:

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