



**AL-KO**  
QUALITY FOR LIFE

## STATIONARY SYSTEM FILTER EQUIPMENT AL-KO PROFI JET

MORE THAN  
CLEAN AIR



MADE IN GERMANY

# JUST THE WAY YOU NEED IT TO BE – PROFI

## AL-KO PROFI JET

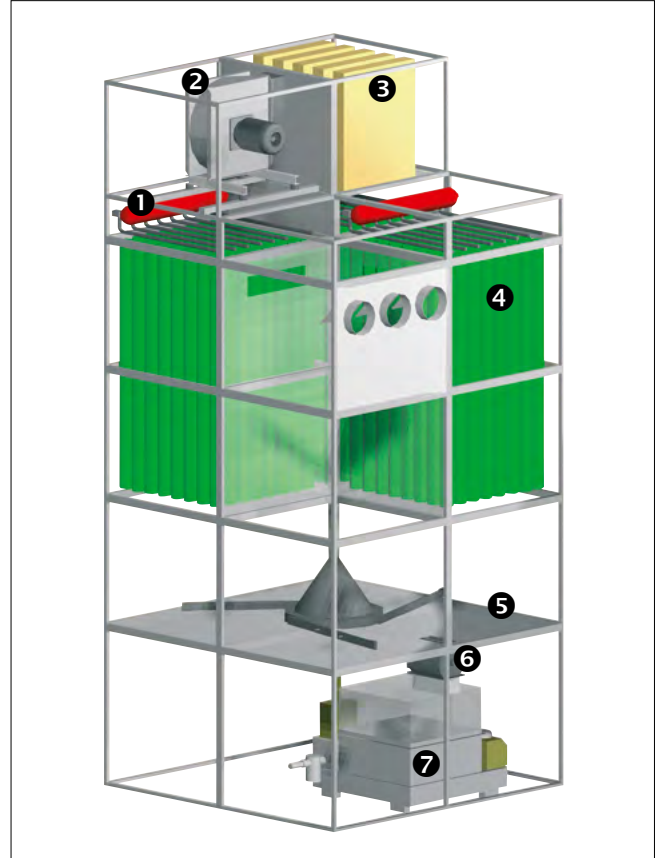
The AL-KO PROFI JET modular system guarantees a high level of flexibility. The filter system can be adapted or expanded according to requirements using standard components. The entire structure is acoustically and thermally insulating. The prefabricated PROFI JET housings guarantee quick and easy assembly 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 PROFI JET gives you consistent quality all the time (according to DIN ISO 9001) with excellent value for the money.





# FI JET SYSTEM FILTER EQUIPMENT

- ❶ Large air surge tank with fast diaphragm valves for optimum JET filter cleaning and lowest use of compressed air
- ❷ Process fans according to ErP Directive 2009/125/EC
- ❸ Sound-insulated return air chamber (optionally with sound-absorbing panels)
- ❹ Filter bag made of antistatic polyester needle felt material (BGIA-tested for dust class M) as standard with snap ring lock for easy handling
- ❺ Round discharge made from self-supporting galvanised steel plates or welded and powder-coated
- ❻ Type-tested AL-KO rotary lock valve according to ATEX guideline 2014/34/EU
- ❼ AL-KO briquette press adapted to the individual application



# AL-KO FILTER TECHNOLOGY

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

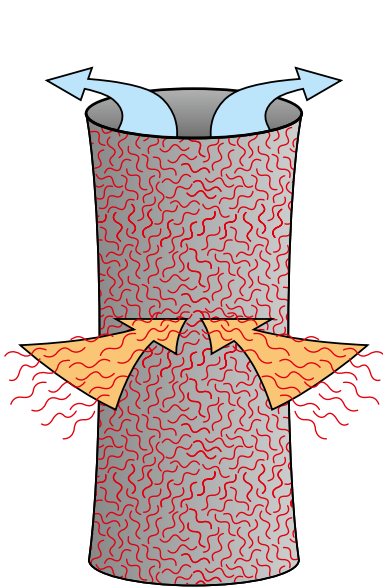
The optimum combination of surface filtration and jet cleaning makes it possible to maintain a residual dust content of less than  $0.1 \text{ mg/m}^3$  on a long-term basis.

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.

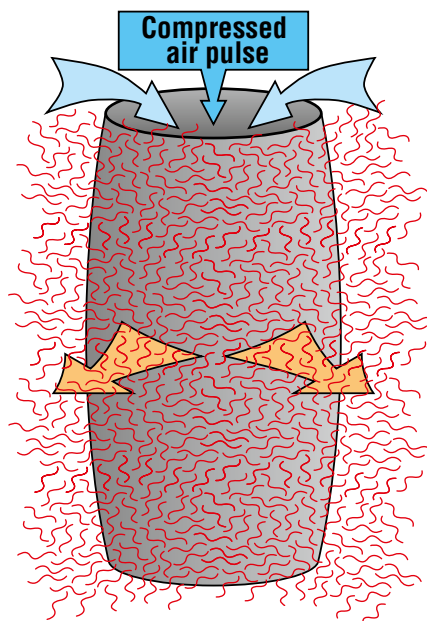
In jet cleaning, the second component of the AL-KO OPTI JET process, the bag filter is returned to its original shape using a compressed air pulse, as a result of which the filter cake is blasted off the surface and the ultrafine dust is thrown out.

### The advantages for you:

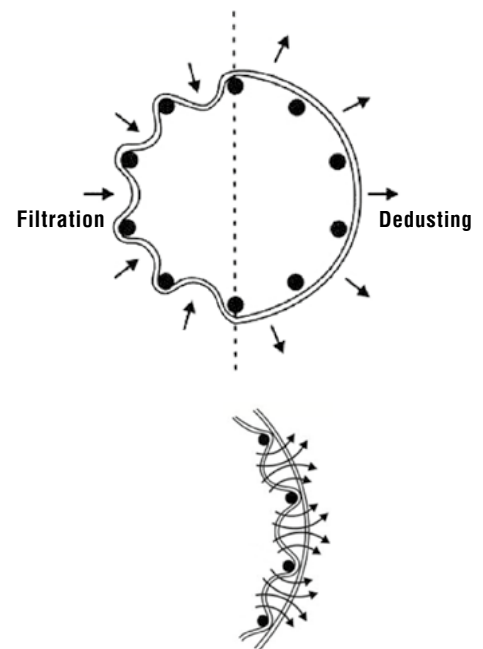
- Contaminated air impacts onto the filter element from the outside
- “Real” surface filtration by special treatment of the filter surface
- Improved cleaning by injection – longer filter service life
- Latest BIA test certificates for dust class M
- Optimum air permeability
- Filter electrically conductive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



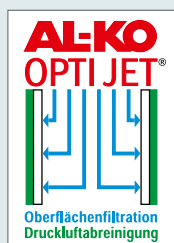
Filtration phase



Dedusting phase



Garland effect







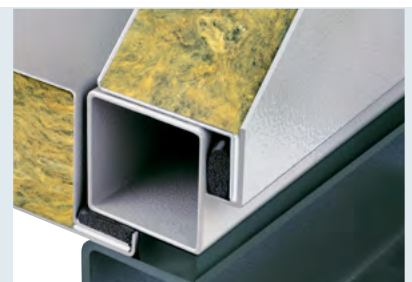
### The advantages for you:

- | Flexibility due to panel construction
- | Quick and easy set-up
- | Lowest noise emission values
- | Highest thermal insulation
- | Regular filter cleaning by AL-KO OPTI JET process
- | Wide range of disposal options
- | Simple maintenance via operating doors
- | Consistent quality
- | Free choice of control options
- | Tested and certified
- | Can be expanded at any time, even after several years of operation



### ADVANTAGES OF THE PANEL CONSTRUCTION

- | Thermal protection: low cooling of the return air; more heat recovery into the work room
- | Fire protection: flame-retardant intermediate layer (EW 90-certified)
- | Noise protection: acoustically insulating mineral fibres; wall thickness 48 mm
- | Explosion protection (shock resistance 200 mbar)



## **AL-KO EXTRACTION TECHNOLOGY – YOUR STRONG PARTNER**

In Europe and across the world, thousands of customers every year choose quality products from AL-KO Extraction Technology. The enthusiasm for these products and customers' confidence in us demonstrates 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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