

# MOBILE PURE AIR DUST EXTRACTORS

## AL-KO POWER UNIT

**YOUR ASSET AT WORK.**



**SAVE  
ENERGY**

**MADE  
IN  
GERMANY**

# A REAL ASSET AT WORK – AL-KO POWER UNIT M

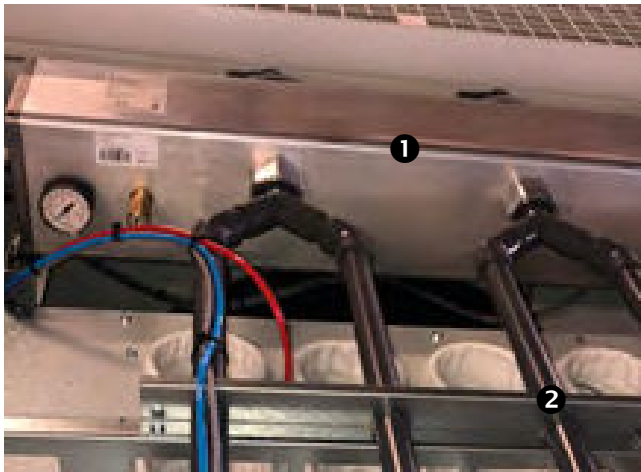
## AL-KO PURE AIR DUST EXTRACTORS

Mobile extraction devices from AL-KO 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 that is required is to insert the swarf bag.

At AL-KO, we care deeply about healthy work environments and the optimal dust collection efficiency for all of your machinery.

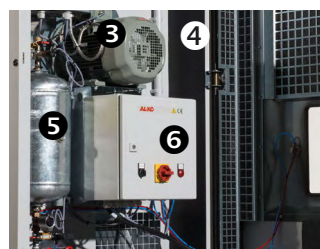
### The advantages for you:

- | High extraction performance
- | Compact design
- | 100% air recirculation without loss of temperature (residual dust < 0.1 mg/m<sup>3</sup>)
- | Integrated pre-separator and extendable control system
- | Optimum filter dedusting
- | Minimal noise level
- | Patented filling level control
- | Certified automatic extinguishing device, easy to maintain
- | Dust compartment for dust-free container change (optional: safety lock of the containers)
- | Freely configurable assemblies, exchangeable and expandable



- ❶ Large air surge tank with fast diaphragm valves for optimum JET filter cleaning and lowest use of compressed air
- ❷ Filter bag made of antistatic polyester needle felt material (BGIA-tested for dust class M) as standard with snap ring lock for easy handling

- ❸ Energy-efficient motors according to IE3 as standard
- ❹ Sound-insulated air recirculation for optimum noise emission values
- ❺ Low-maintenance automatic fire extinguishing system with manual and automatic operation (standard with POWER UNIT 250, 300 and 350)
- ❻ PLC control from size 160 onwards; 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)
- ❼ Viewing window for easy fill level check
- ❽ Ergonomically shaped clamping lever for simple container locking



# MOBILE PURE AIR DUST EXTRACTORS



## AL-KO POWER UNIT 100 / 120

Type	100	120
Article - number	199 181	199 182
Intake socket	3.9"	4.7"
Nominal motor rating	1.5 kW / 2 hp	1.5 kW / 2 hp
Voltage	220 V / 3 Ph / 60 Hz	220 V / 3 Ph / 60 Hz
Max. flow rate	465 cfm	671 cfm
Nominal flow rate*	333 cfm	479 cfm
Vacuum at nominal flow rate	0.307 psi	0.316 psi
Filter area	44.1 ft²	54.9 ft²
Filter dedusting	manual	manual
Pre-separator	integrated	integrated
Swarf collection capacity	35.7 gal	35.7gal
Sound pressure level**	69 dB(A)	71 dB(A)
Dimension (L/ W/ H)	47" x 26" x 78"	47" x 26" x 78"
Weight net	251 lb	258 lb

Other voltage or execution on request!    \* at 65.6 ft/s    \*\* measurement inaccuracy 4 dB(A) according DIN EN ISO 11201, free-field measurement



## AL-KO POWER UNIT 160 / 200

Type	160 P	200 P
Article - number	199 185 01	199 186 01
Intake socket	6.3"	7.87"
Nominal motor rating	2.2 kW / 3 hp	3.0 kW / 4 hp
Voltage	220 V / 3 Ph / 60 Hz	220 V / 3 Ph / 60 Hz
Max. flow rate	1,177 cfm	1,772 cfm
Nominal flow rate*	852 cfm	1,331 cfm
Vacuum at nominal flow rate	0.363 psi	0.315 psi
Filter area	98 ft²	148.5 ft²
Filter dedusting	pressurised air	pressurised air
Pre-separator	integrated	integrated
Swarf collection capacity	63.7 gal	2 x 63.7 gal
Sound pressure level**	69 dB(A)	72 dB(A)
Dimension (L/ W/ H)	67" x 33" x 81"	91" x 33" x 81"
Weight net	750 lb	1,014 lb

Other voltage or execution on request!    \* at 65.6 ft/s    \*\* measurement inaccuracy 4 dB(A) according DIN EN ISO 11201, free-field measurement

# AL-KO POWER UNIT 250



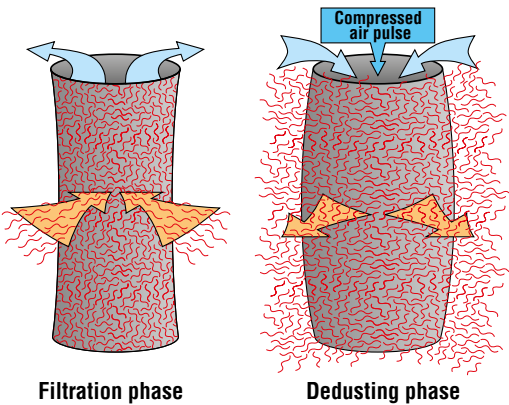
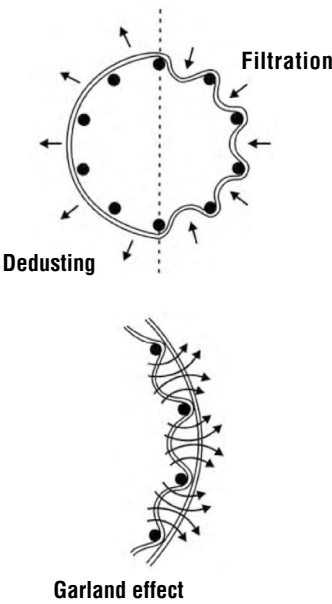
Type	250 P	250 P-BP 30-50	250 P-ZRS
Article - number	199 977	199 983	
Intake socket	9.84"	9.84"	9.84"
Nominal motor rating	7.5 kW / 10 hp	7.5 kW / 10 hp	7.5 kW / 10 hp
Voltage	460 V / 3 Ph / 60 Hz	460 V / 3 Ph / 60 Hz	460 V / 3 Ph / 60 Hz
Max. flow rate	2,884 cfm	2,884 cfm	2,884 cfm
Nominal flow rate*	2,080 cfm	2,080 cfm	2,080 cfm
Vacuum at nominal flow rate	0.462 psi	0.462 psi	0.462 psi
Filter area	241.1 ft²	241.1 ft²	241.1 ft²
Filter dedusting	pressurised air	pressurised air	pressurised air
Pre-separator	integrated	integrated	integrated
Extinguishing device	integrated	integrated	integrated
Swarf collection capacity	2 x 66 gal	-	-
Sound pressure level**	72 dB(A)	72 dB(A)	72 dB(A)
Dimension (L/ W/ H)	92" x 42" x 93"	92" x 53" x 103"	94" x 42" x 110"
Briquette / Rotary lock valve performance	-	66 - 110 lb/h ***	4,159 gal/h ***
Briquette diameter	-	2"	-
Weight net	1,671 lb	3,045 lb	1,604 lb

Other voltage or execution on request! \* at 65.6 ft/s \*\* measurement inaccuracy 4 dB(A) according DIN EN ISO 11201, free-field measurement \*\*\* depending on the material

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

### Your benefits:

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





# AL-KO POWER UNIT 300



Type	300 P	300 P-BP 50-70	300 P-ZRS
Article - number	199 978	199 984	
Intake socket	11.81"	11.81"	11.81"
Nominal motor rating	7.5 kW / 10 hp	7.5 kW / 10 hp	7.5 kW / 10 hp
Voltage	460 V / 3 Ph / 60 Hz	460 V / 3 Ph / 60 Hz	460 V / 3 Ph / 60 Hz
Max. flow rate	3,531 cfm	3,531 cfm	3,531 cfm
Nominal flow rate*	2,995 cfm	2,995 cfm	2,995 cfm
Vacuum at nominal flow rate	0.353 psi	0.353 psi	0.353 psi
Filter area	323 ft²	323 ft²	323 ft²
Filter dedusting	pressurised air	pressurised air	pressurised air
Pre-separator	integrated	integrated	integrated
Extinguishing device	integrated	integrated	integrated
Swarf collection capacity	3 x 66 gal	-	-
Sound pressure level**	71 dB(A)	71 dB(A)	71 dB(A)
Dimension (L/ W/ H)	118" x 42" x 93"	118" x 54" x 111"	120" x 42" x 19"
Briquette / Rotary lock valve performance	-	110 - 155 lb/h ***	4,159 gal/h ***
Briquette diameter	-	2.8"	-
Weight net	2,099 lb	3,461 lb	1,835 lb

Other voltage or execution on request! \* at 65.6 ft/s \*\* measurement inaccuracy 4 dB(A) according DIN EN ISO 11201, free-field measurement \*\*\* depending on the material

## AL-KO DUST COMPARTMENT

### PRACTICAL – SIMPLE – CLEAN

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

Type	Art. - no.
APU 140-160 Dust compartment cpl. <sup>1)</sup>	199 752
APU 200 Dust compartment cpl. <sup>1)</sup>	199 834
APU 250 Dust compartment cpl. <sup>1)</sup>	199 836
APU 300-350 Dust compartment cpl. <sup>1)</sup>	199 837
APU 140-200 Dust compartment	868 283
APU 250-350 Dust compartment	868 340

<sup>1)</sup>Content: 1 pc. Dust compartment plus the required guide rail



Release the chippings container



Push in the dust compartment



Replace the chippings container



Reinsert the chippings container and remove the dust compartment



Clamp the chippings container into place

# AL-KO POWER UNIT 350

## THE NEW PERFORMANCE CLASS



### The advantages for you:

- | Highest extraction performance
- | Lowest energy consumption A+
- | Optimum safety
- | Compact construction

### THE NEW LEVEL OF PERFECTION

- | New technology
- | Unique design
- | Made in Germany
- | Patented air routing



AL-KO POWER UNIT 350 is the new performance class among pure air dust extractors. The powerful 17 hp **IE3 motor** extracts dust and swarf with a gigantic **flow rate of 4,980 cfm**, while being very economical in terms of consumption. Thanks to 57 filters, the AL-KO POWER UNIT 350 offers a **gigantic filter surface** of 785.8 ft<sup>2</sup> – enough to lower the residual dust content of the **air which is 100% recycled** to < 0.1 mg/m<sup>3</sup> (H3).

Naturally, the AL-KO POWER UNIT 350 uses tried and tested, and further improved, AL-KO OPTI JET® technology and the **integrated pre-separator** comes as standard.

While performing on a gigantic level, AL-KO POWER UNIT 350 is never noisy. The maximum sound level at a distance of one meter measures according to DIN EN ISO 11201 – **absolutely quiet 71 dB (A)** – probably the lowest figure in this class. This is not surprising as the AL-KO POWER UNIT 350 is **equipped with real sound-absorbing panels – as standard.**

Thanks to the unique design and the further optimised internal layout, AL-KO POWER UNIT 350 is extremely space-saving: with its dimensions of 123"x42"x93" (LxWxH) the AL-KO POWER UNIT 350 is significantly smaller than many other devices of the 300 class.

# AL-KO POWER UNIT 350



Type	350 P	350 P-BP 50-70	350 P-ZRS
Article - number	199 943		
Intake socket	13.78"	13.78"	13.78"
Nominal motor rating	12.6 kW / 17 hp	12.6 kW / 17 hp	12.6 kW / 17 hp
Voltage	460 V / 3 Ph / 60 Hz	460 V / 3 Ph / 60 Hz	460 V / 3 Ph / 60 Hz
Max. flow rate	4,980 cfm	4,980 cfm	4,980 cfm
Nominal flow rate*	4,077 cfm	4,077 cfm	4,077 cfm
Vacuum at nominal flow rate	0.369 psi	0.369 psi	0.369 psi
Filter area	785.8 ft²	785.8 ft²	785.8 ft²
Filter dedusting	pressurised air	pressurised air	pressurised air
Pre-separator	integrated	integrated	integrated
Extinguishing device	integrated	integrated	integrated
Swarf collection capacity	3 x 66 gal	-	-
Sound pressure level**	71 dB(A)	71 dB(A)	71 dB(A)
Dimension (L/ W/ H)	123" x 42" x 93"	123" x 54" x 111"	125" x 42" x 119"
Briquette / Rotary lock valve performance	-	110 - 155 lb/h ***	4,159 gal/h ***
Briquette diameter	-	2.8"	-
Weight net	2,249 lb	3,836 lb	2,264 lb

Other voltage or execution on request!    \* at 65.6 ft/s    \*\* measurement inaccuracy 4 dB(A) according DIN EN ISO 11201, free-field measurement    \*\*\* depending on the material

## GIGANTIC PERFORMANCE AL-KO POWER UNIT 350

- | IE 3 motor as standard  
 | Max. flow rate up to 4,980 cfm  
 | Approx. 785.8 ft² filter surface, residual dust content according to H3  
 | Pre-separator as standard  
 | 71 dB(A) at full power (according to DIN EN ISO 11201)
- | Already complies with EN 16770  
 | Models with rotary lock valve tested for type examination (FSA)  
 | Tested back-up flap  
 | Integrated automatic extinguisher

### Options on request:

- | Filter surface up to 1,571 ft²  
 | Increase of expansion chamber  
 | Discharge with rotary lock valve  
 | Sound damper  
 | Exhaust air hood  
 | Clean dust compartment  
 | Control options



## **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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