

**AL-KO**

QUALITY FOR LIFE

# MOBILE PURE AIR DUST EXTRACTORS

## AL-KO POWER UNIT

**SAVE  
ENERGY**

**YOUR ASSET  
AT WORK.**

**MADE  
IN  
GERMANY**

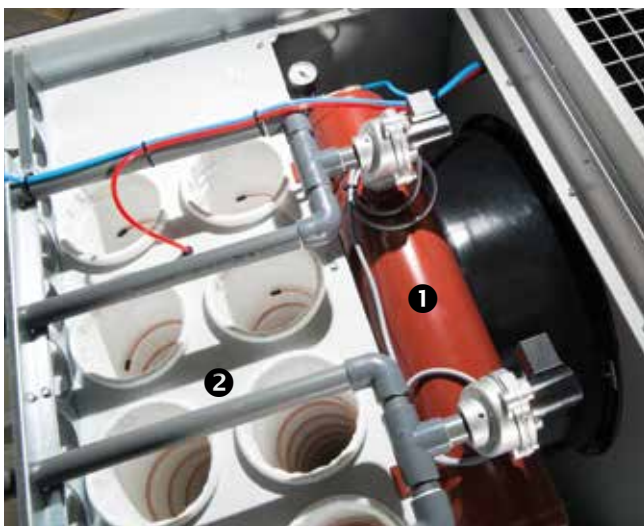
# A REAL ASSET AT WORK – AL-KO POWER UNIT M

## 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.

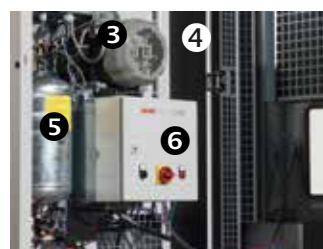
### The advantages for you:

- | 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 extendible control system
- | Optimum filter dedusting
- | Minimal noise level



- 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, 350 and 350\*)
- ❻ PLC control from size 140 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

Technical data	100	100	120	120 M**
Extraction nozzles	100 mm	100 mm	120 mm	120 mm
Nominal motor rating	1,1 kW/1 Ph	1,5 kW/3 Ph	1,5 kW/3 Ph	1,5 kW/3 Ph
Voltage	230 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Max. flow rate	790 m <sup>3</sup> /h	790 m <sup>3</sup> /h	1.140 m <sup>3</sup> /h	1.140 m <sup>3</sup> /h
Nominal flow rate*	565 m <sup>3</sup> /h	565 m <sup>3</sup> /h	814 m <sup>3</sup> /h	814 m <sup>3</sup> /h
Vacuum at nominal flow rate	2.118 Pa	2.124 Pa	2.180 Pa	2.180 Pa
Filter area	4,1 m <sup>2</sup>	4,1 m <sup>2</sup>	5,1 m <sup>2</sup>	5,1 m <sup>2</sup>
Swarf collection capacity	approx. 135 l	approx. 135 l	approx. 135 l	approx. 135 l
Sound pressure level***	69 dB(A)	69 dB(A)	71 dB(A)	71 dB(A)
Dimensions (L / W / H) in mm	1.178 x 650 x 1.973	1.178 x 650 x 1.973	1.178 x 650 x 1.973	1.178 x 650 x 1.973
Weight netto	approx. 114 kg	approx. 116 kg	approx. 117 kg	approx. 121 kg

\*GS-HO-07 \*\* M – Version with automatic filter dedusting and machine detection \*\*\* Free sound field measurement according to DIN EN 11201



## AL-KO POWER UNIT 140/160

Technical data	140 P / 140 H	160 K**	160 P / 160 H
Extraction nozzles	140 mm	160 mm	160 mm
Nominal motor rating	2,2 kW/3 Ph	2,2 kW/3 Ph	2,2 kW/3 Ph
Voltage	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz
Max. flow rate	1.600 m <sup>3</sup> /h	2.000 m <sup>3</sup> /h	2.000 m <sup>3</sup> /h
Nominal flow rate*	1.108 m <sup>3</sup> /h	1.448 m <sup>3</sup> /h	1.448 m <sup>3</sup> /h
Vacuum at nominal flow rate	2.591 Pa	2.503 Pa	2.503 Pa
Filter area	6,3 m <sup>2</sup>	9,1 m <sup>2</sup>	9,1 m <sup>2</sup>
Filter dedusting	Pressurised air / manual	Pressurised air	Pressurised air / manual
Swarf collection capacity (net / gross)	165 l / 241 l	165 l / 241 l	165 l / 241 l
Sound pressure level***	69 dB(A)	69 dB(A)	69 dB(A)
Dimensions (L / W / H) in mm	1.688 x 830 x 2.050	1.688 x 830 x 2.050	1.688 x 830 x 2.050
Weight netto	330 / 320 kg	350 kg	340 / 330 kg

\*GS-HO-07 \*\* K – integrated compressor \*\*\* free sound field measurement according to DIN EN 11201



## AL-KO POWER UNIT 200

Technical data	200 P	200 P-BP	200 P-ZRS
Extraction nozzles	200 mm	200 mm	200 mm
Nominal motor rating	3,0 kW/3 Ph	3,0 kW/3 Ph	3,0 kW/3 Ph
Voltage	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz
Max. flow rate	3.010 m <sup>3</sup> /h	3.010 m <sup>3</sup> /h	3.010 m <sup>3</sup> /h
Nominal flow rate*	2.262 m <sup>3</sup> /h	2.262 m <sup>3</sup> /h	2.262 m <sup>3</sup> /h
Vacuum at nominal flow rate	2.174 Pa	2.174 Pa	2.174 Pa
Filter area	13,8 m <sup>2</sup>	13,8 m <sup>2</sup>	13,8 m <sup>2</sup>
Filter dedusting	Pressurised air	Pressurised air	Pressurised air
Swarf collection capacity (net / gross)	2 x 165 l / 2 x 241 l	Briquette press	Rotary lock valve
Sound pressure level***	72 dB(A)	72 dB(A)	72 dB(A)
Dimensions (L/W/H)	2.296 x 830 x 2.050	2.296 x 1.314 x 2.467	2.296 x 836 x 2.607
Briquette / star feeder performance	–	30 – 40 kg/h**	15.744 l/h**
Briquette diameter	–	40 mm	–
Weight netto	460 kg	950 kg	550 kg

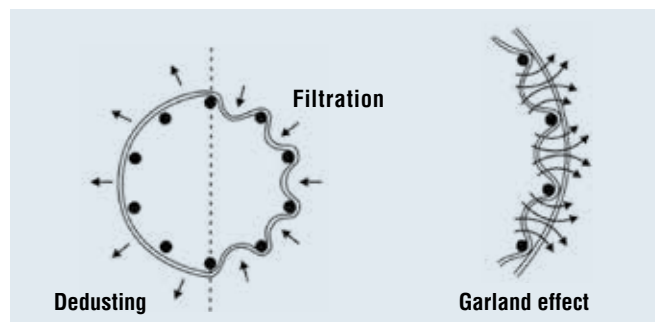
\* GS-HO-07    \*\* depending on the material    \*\*\* free sound field measurement according to DIN EN 11201

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



### Ihre Vorteile:

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





## AL-KO POWER UNIT 250

Technical data	250 P	250 P-BP	250 P-ZRS
Extraction nozzles	250 mm	250 mm	250 mm
Nominal motor rating	6,5 kW/3 Ph	6,5 kW/3 Ph	6,5 kW/3 Ph
Voltage	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Max. flow rate	4.900 m <sup>3</sup> /h	4.900 m <sup>3</sup> /h	4.900 m <sup>3</sup> /h
Nominal flow rate*	3.534 m <sup>3</sup> /h	3.534 m <sup>3</sup> /h	3.534 m <sup>3</sup> /h
Vacuum at nominal flow rate	2.451 Pa	2.451 Pa	2.451 Pa
Filter area	22,4 m <sup>2</sup>	22,4 m <sup>2</sup>	22,4 m <sup>2</sup>
Swarf collection capacity (net / gross)	2 x 165 l / 2 x 250 l	Briquette press	Rotary lock valve
Sound pressure level***	72 dB(A)	72 dB(A)	72 dB(A)
Dimensions (L / W / H) in mm	2.340 x 1.058 x 2.351	2.340 x 1.329 x 2.609	2.352 x 1.058 x 2.797
Briquette / star feeder performance	–	30 – 50 kg/h**	15.744 l/h**
Briquette diameter	–	50 mm	–
Weight netto	758 kg	1.381 kg	728 kg

\*GS-HO-07    \*\* depending on the material    \*\*\* free sound field measurement according to DIN EN 11201



## AL-KO POWER UNIT 300

Technical data	300 P	300 P-BP	300 P-ZRS
Extraction nozzles	300 mm	300 mm	300 mm
Nominal motor rating	7,49 kW/3 Ph	7,49 kW/3 Ph	7,49 kW/3 Ph
Voltage	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Max. flow rate	6.000 m <sup>3</sup> /h	6.000 m <sup>3</sup> /h	6.000 m <sup>3</sup> /h
Nominal flow rate*	5.089 m <sup>3</sup> /h	5.089 m <sup>3</sup> /h	5.089 m <sup>3</sup> /h
Vacuum at nominal flow rate	2.434 Pa	2.434 Pa	2.434 Pa
Filter area	30 m <sup>2</sup>	30 m <sup>2</sup>	30 m <sup>2</sup>
Swarf collection capacity (net / gross)	3 x 165 l / 3 x 250 l	Briquette press	Rotary lock valve
Sound pressure level***	71 dB(A)	71 dB(A)	71 dB(A)
Dimensions (L / W / H) in mm	2.985 x 1.058 x 2.351	2.985 x 1.352 x 2.803	2.997 x 1.058 x 3.013
Briquette / star feeder performance	–	50 – 70 kg/h**	15.744 l/h**
Briquette diameter	–	70 mm	–
Weight netto	952 kg	1.570 kg	920 kg

\*GS-HO-07    \*\* depending on the material    \*\*\* free sound field measurement according to DIN EN 11201

# AL-KO POWER UNIT 350 AND 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
- | Patent pending



AL-KO POWER UNIT 350 and POWER UNIT 350+ is the new performance class among pure air dust extractors. The powerful 11 kW or 15 kW **IE3 motor** extracts dust and swarf with a gigantic **flow rate of 8,000 m<sup>3</sup>/h respectively 10.000 m<sup>3</sup>/h**, while being very economical in terms of consumption. Thanks to 57 washable filters, the AL-KO POWER UNIT 350 and POWER UNIT 350+ offers a **gigantic filter surface** of 73 m<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 and 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 and 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)** (APU 350) – probably the lowest figure in this class. This is not surprising as the AL-KO POWER UNIT 350 and 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 3.112 x 1.058 x 2.361 mm (LxWxH) the AL-KO POWER UNIT 350 is significantly smaller than many other devices of the 300 class.

# GIGANTIC PERFORMANCE

## AL-KO POWER UNIT 350

- | IE 3 motor as standard
- | Max. flow rate up to 10.000 m<sup>3</sup>/h
- | Approx. 73 m<sup>2</sup> 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 prEN 16770
- | Models with rotary lock valve tested for type examination (FSA)
- | Tested back-up flap
- | Integrated automatic extinguisher



## AL-KO POWER UNIT 350

Technical data	350 P	350 P-BP	350 P-ZRS
Extraction nozzles	350 mm	350 mm	350 mm
Nominal motor rating	11,0 kW/3 Ph	11,0 kW/3 Ph	11,0 kW/3 Ph
Voltage	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Max. flow rate	approx. 8.500 m <sup>3</sup> /h	approx. 8.500 m <sup>3</sup> /h	approx. 8.500 m <sup>3</sup> /h
Nominal flow rate*	6.927 m <sup>3</sup> /h	6.927 m <sup>3</sup> /h	6.927 m <sup>3</sup> /h
Vacuum at nominal flow rate	2.543 Pa	2.543 Pa	2.543 Pa
Filter area	73 m <sup>2</sup>	73 m <sup>2</sup>	73 m <sup>2</sup>
Swarf collection capacity (net / gross)	3 x 165 l / 3 x 250 l	Briquette press	Rotary lock valve
Sound pressure level***	71 dB(A)	71 dB(A)	71 dB(A)
Dimensions (L / W / H) in mm	3.112 x 1.058 x 2.361	3.112 x 1.323 x 2.817	3.159 x 1.058 x 3.027
Briquette / star feeder performance	–	50 – 70 kg/h**	15.744 l/h**
Briquette diameter	–	70 mm	–
Weight netto	1.020 kg	1.605 kg	920 kg

\*Exposed to dust according to GS-HO-07    \*\*depending on the material    \*\*\* free sound field measurement according to DIN EN 11201

## AL-KO POWER UNIT 350+

Technical data	350 P <sup>+</sup>	350 P-BP <sup>+</sup>	350 P-ZRS <sup>+</sup>
Extraction nozzles	350 mm	350 mm	350 mm
Nominal motor rating	15,0 kW/3 Ph	15,0 kW/3 Ph	15,0 kW/3 Ph
Voltage	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Max. flow rate	approx. 10.000 m <sup>3</sup> /h	approx. 10.000 m <sup>3</sup> /h	approx. 10.000 m <sup>3</sup> /h
Nominal flow rate*	7.130 m <sup>3</sup> /h	7.130 m <sup>3</sup> /h	7.130 m <sup>3</sup> /h
Vacuum at nominal flow rate	3.000 Pa	3.000 Pa	3.000 Pa
Filter area	73 m <sup>2</sup>	73 m <sup>2</sup>	73 m <sup>2</sup>
Swarf collection capacity (net / gross)	3 x 165 l / 3 x 250 l	Briquette press	Rotary lock valve
Sound pressure level***	74 dB(A)	74 dB(A)	74 dB(A)
Dimensions (L / W / H) in mm	3.112 x 1.058 x 2.361	3.112 x 1.323 x 2.817	3.159 x 1.058 x 3.027
Briquette / star feeder performance	–	50 – 70 kg/h**	15.816 l/h**
Briquette diameter	–	70 mm	–
Weight netto	1.174 kg	1.765 kg	1.115 kg

\*Exposed to dust according to GS-HO-07    \*\* depending on the material    \*\*\* free sound field measurement according to DIN EN 11201

## **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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