



KPF – filter systems for dust

As with smoke, dust is a finely distributed solid with more or less buoyancy.

Dust separators are suitable if solid air pollutants, e.g. dusts and smokes, should be separated. Depending on the type and design of the filter medium, filtering separators are suitable for very many different particle sizes. Their separation efficiency is between 90 and 99.995 %.

Extraction of harmful substances at the source is a basic requirement which is also specified in the Workplaces Ordinance § 3 (1), Appendix 3.6 Ventilation.

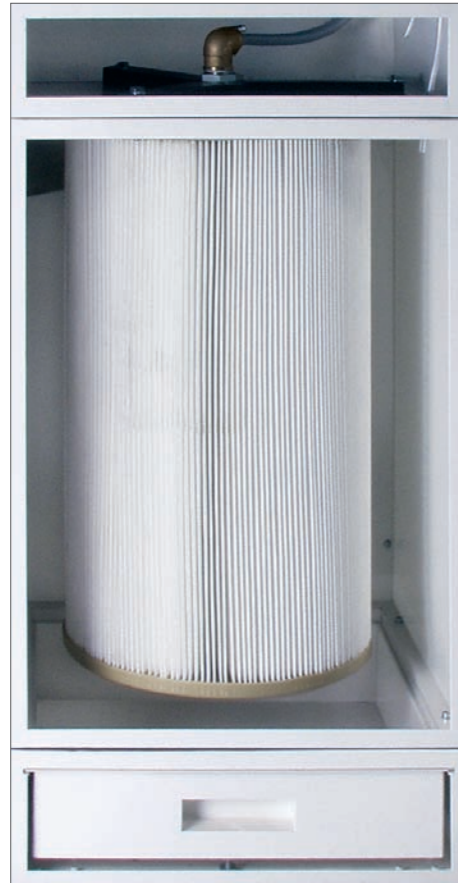
The Klepp dust separators are ideal solutions for continuous and optimum extraction and filtering of the harmful substances. The contaminated air is acquired directly at the point of origin using practical capture elements (e.g. suction arms from dia.75).

The extracted harmful substances are transferred to the central filter unit using a pipeline system individually designed for your requirement.

Starting with the KPF Series 810 of the Klepp filtering equipment, the filter cartridges are cleaned using an electronic cycle controller.

During the cleaning process, the individual filter cartridges are alternately closed with a cover and thus removed from the intake flow.

The compressed air flows on to the rotor nozzle and creates a rotary motion due to the arrangement of the nozzles.



The pleats of the cartridges are thus cleaned very intensively along the complete length.

The cleaned-off particles are collected in a collection container. The system can optionally be operated in exhaust or recirculated air mode.

Our control panel with full text display and a membrane keypad provide more user friendliness. An optic signal and text messages indicate the need for action and maintenance. The control panel also contains the operating hours counter, the speed regulation and the filter status display.

The KPF filter systems for dust in detail

- Standard filter cartridge(s): Polyester fleece for dust class M according to DIN EN 60335-2-69 Appendix AA
- Filter material can be specified depending on the type of dust
- Case made of sheet steel in modular construction with maintenance door powder-coated on both sides structure white RAL 9010 structure blue RAL 5013
- Air intake opening with deflector as pre-separator
- Process-controlled compressed air cleaning using rotor nozzle
- Compressed air tank with 12 litres capacity and pressure regulator with pressure gauge
- Fan case made of cast aluminium
- Filter display: electronic differential pressure regulator with display
- Fan control unit: for electronic actuation of solenoid valves, operates automatically
- Dust collection drawer with 75 litres capacity
- Soundproofed motor section, exhaust cabinet and cleaning section



The dust separators from the Klepp company guarantee

- simple integration at the workplace
- flexible possible uses for practically every area of application.

Your benefits

- completely automatic, independent cleaning of the filter cartridges
- vertical filter cartridges guarantee a better cleaning of the cartridges
- quiet cleaning using rotor nozzle, no shot blasting!
- the cartridges for cleaning are automatically closed with a cover during operation
- the deflector at the air intake disperses the air flow and prevents damage to the filter cartridges
- quiet operation due to double soundproofing in the motor section, cleaning section and exhaust air soundproofing cabinet
- safety using tested compressor, approval according to EC 87/404 EEC
- system tested according to DIN VDE 0701/0702 and BGV A 3
- filter area load according to VDI 3677
- documented functional and completeness check
- low operating costs

A large selection of capture elements for optional bench, wall or ceiling installation guarantees maximum flexibility.

Technical Data:

	KPF 202 HP	KPF 402 HP	KPF 402-10 HP	KPF 810-2	KPF 1260	KPF 1800	KPF 2100	KPF 2600	KPF 3000	KPF 4000/ 4-16
Unimpeded air flow rate	190 m³/h	390 m³/h	390 m³/h	900 m³/h	1260 m³/h	1800 m³/h	2100 m³/h	2550 m³/h	3350 m³/h	4000 m³/h
Motor	0.135 kW	0.24 kW	0.24 kW	0.55 kW	1.1 kW	1.1 kW	2.2 kW	1.5 kW	4.0 kW	4.0 kW
Voltage	230 V	230 V	230 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Rated current	0.59 A	1.0 A	1.0 A	2.3/1.33 A	4.8/2.8 A	4.3/2.5 A	8.3/4.8 A	5.6/3.25 A	14.4/8.3 A	14.3/8.3 A
Rated speed	8500 U/min	8200 U/min	2800 U/min	2830 U/min	2840 U/min	2830 U/min	2800 U/min	2820 U/min	2900 U/min	2880 U/min
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Total pressure difference	3200 Pa	4000 Pa	4000 Pa	1650 Pa	2380 Pa	2750 Pa	2880 Pa	2600 Pa	3400 Pa	4630 Pa
Sound pressure level	55 dB(A)	55 dB(A)	56 dB(A)	54 dB(A)	54 dB(A)	54 - 61 dB(A)	61 dB(A)	54 - 61 dB(A)	54 - 61 dB(A)	65 dB(A)
Filter area	2.5 m²	5 m²	10 m²	20 m²	20 m²	30 m²	30 m²	40 m²	40 m²	64 m²
Filter area load	76 m³/m²/h	78 m³/m²/h	39 m³/m²/h	45 m³/m²/h	63 m³/m²/h	60 m³/m²/h	70 m³/m²/h	63.75 m³/m²/h	83.75 m³/m²/h	62.5 m³/m²/h
Filter material	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece
Dust class	M	M	M	M	M	M	M	M	M	M
Separation efficiency	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %
Suction connection	50 mm (on the side)	100 mm (on the side)	100 mm (on the side)	125 mm (on the side)	160 mm (on the side)	160 mm (on the side)	200 mm (on the side)	200 mm (on the side)	NW 200 mm	NW 315 mm
Compressed air connection	via ball valve		via ball valve	¾" internal thread	¾" internal thread	¾" internal thread	¾" internal thread	¾" internal thread	¾" internal thread	
Filter cleaning	Handheld tapper	Motor nozzle optional Handheld tapper	Motor nozzle	Motor nozzle	Motor nozzle	Motor nozzle	Motor nozzle	Motor nozzle	Motor nozzle	Motor nozzle
Dimensions (mm)										
Width	350	450	450	750	850	950	950	850	950	950
Depth	455	550	550	950	950	1200	1200	1100	1200	1200
Height	1100	1090	1410	2370	2370	2370	2370	2370	2600	2600

KPF 1260/3 as above, however with	KPF 1800/4 as above, however with	KPF 2100/4 as above, however with	KPF 2600/6 as above, however with
Filter area 30 m²	Filter area 40 m²	Filter area 40 m²	Filter area 60 m²
Filter area load 42 m³/m²/h	Filter area load 45 m³/m²/h	Filter area load 52.5 m³/m²/h	Filter area load 42.5 m³/m²/h
Dimensions (W x D x H) (mm) 1700 x 1100 x 2370			

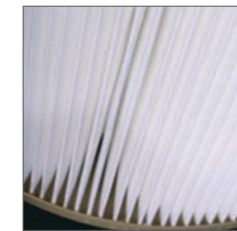
KPF dust filter with other filtering materials, more air capacity and larger filter area on request.



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Technical changes reserved. Status: October 2009. The latest information on all devices can be found on the internet.



Filter systems for dust – dust separators

- Extremely quiet
- Low noise filter cleaning
- Efficient filter surfaces
- Low operating costs

