

EVOTEC



Dust Extractor FEX 6000



INNOVATIVE
EXTRACTION
TECHNOLOGY

Dust extractor FEX 6000.2 - FEX 6000.7

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- ★ State-of-the-art control technology, thus adaptable to customer specific processes
- ★ Complete full equipment
- ★ High-performance filter cartridges with automatic compressed air cleaning
- ★ Easy disposal in „endless“ plastic bag (ESD)
- ★ Vacuum connection Ø 80 mm or 150 mm (Optionally pneumatic gate valve)
- ★ Optional: ATEX for zone 22
- ★ Optional: PreCoat
- ★ With 2 or 3 motors

FEX 6000.2
FEX 6000.3
FEX 6000.5
FEX 6000.6
FEX 6000.7

Versions:



Detail explanation

Example: FEX 6000.5-D80-H

Exhaust air nozzles Ø 150 mm offers possibility of connecting to a further exhaust air system.

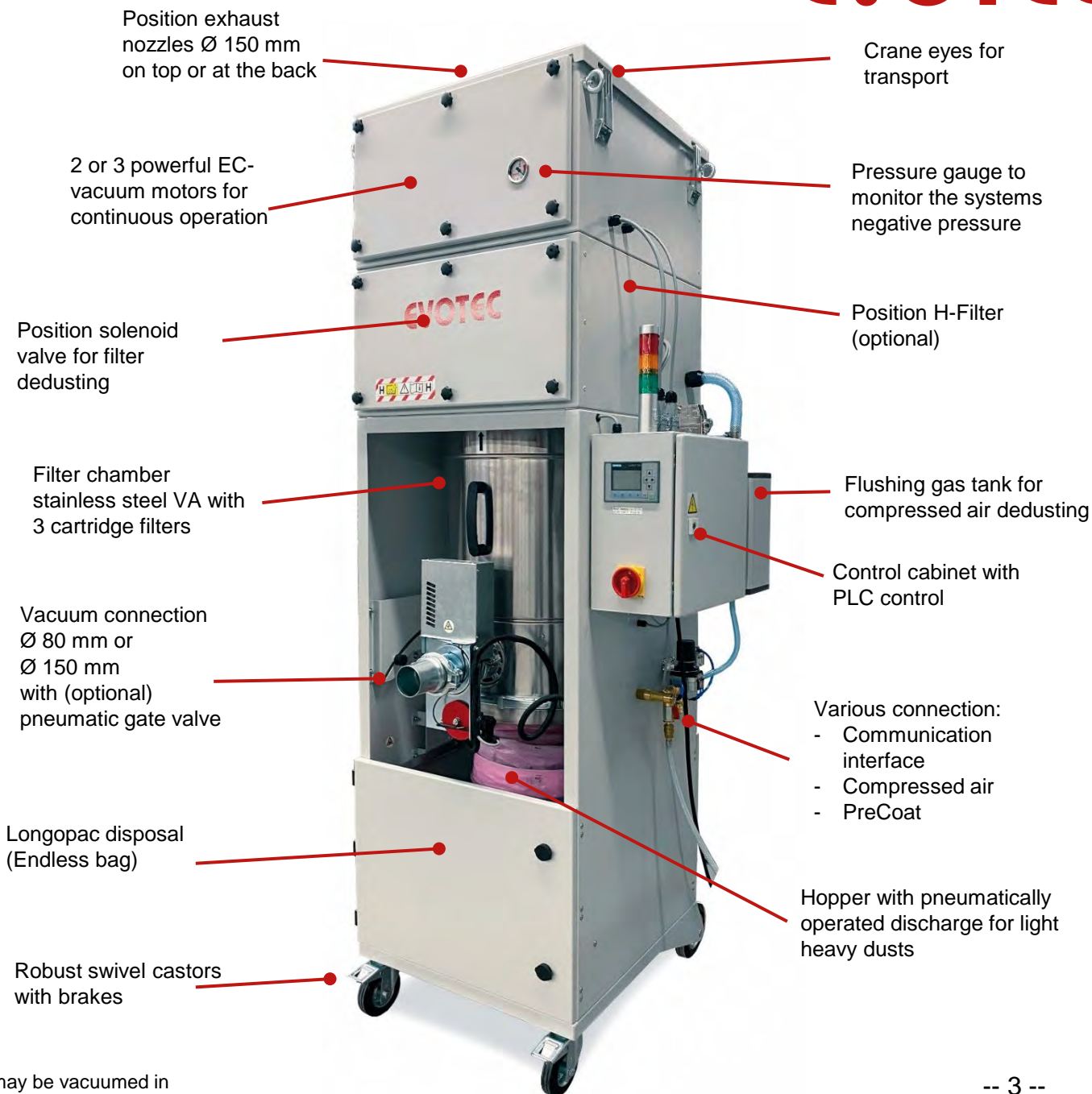
Connection nozzles Ø 80 mm or Ø 150 mm for safe connection of the vacuum hose or connection to piping system.

ATEX version (Upgrade)
completely conductive for use in zone 22.

ESD version (Upgrade)
- completely grounded device
- ESD-powder coating
- ESD-feet/castors

Assemble your plant individually from these assemblies:

1. **Motor assembly with exhaust opening**
2. **Filter chamber chassis with vacuum inlet**
3. **Upgrades**



When used in ATEX Zone 22, no ignition sources may be vacuumed in

Powerful central extraction plant with high airflow rate to collect and filter dry and hazardous dusts.

Specially developed for the reliable extraction and filtration of dusts which occur during miscellaneous work processes.

Critical fine dusts are reliably aspirated and filtered.

Pneumatic filter cleaning via PLC controller.

The volume flow is stepless adjustable.

1st filter stage: Dust class M

M-filter cartridges polyester fleece, aluminium coated or with PTFE-membrane.

Als Upgrade:

2nd filter stage: Dust class H

Filter cassette (H13/14)

Including filter differential pressure measurement for filter monitoring.

Longopac disposal:

„Endless“-plastic bags for easy and contamination-free disposal of the material.

Longopac-hopper: Heavy duty flap or pneumatically operated discharge for very light dusts.

230 Volt versions as well as such including **UL-components** and special voltages are available on request.

MODELS	FEX 6000.2	FEX 6000.3	FEX 6000.5	FEX 6000.6	FEX 6000.7
Motor assemblies (to be selected from)					
Engine power	2.200 W (2 x 1.100 W)	3.300 W (3 x 1.100 W)	2.200 W (2 x 1.100 W)	3.300 W (3 x 1.100 W)	2.900 W (1.100 W+1.800 W)
Max. airflow rate at turbine	950 m³/h	1.480 m³/h	440 m³/h	650 m³/h	520 m³/h
Max. negative pressure	10.000 Pa		23.800 Pa		21.000 Pa
Operating air flow approx. *)	910 m³/h	1.380 m³/h	420 m³/h	600 m³/h	500 m³/h
Operating neg. pressure approx. *)	9.500 Pa		22.800 Pa		20.000 Pa
Flushing gas tank for filter dedusting	5 litres compressed air				
Dimensions L x W x H **)	850 x 880 x 2270 - 2550 mm				
Protection class	IP 54				
Weight approx. **)	215 kg	220 kg	215 kg	220 kg	220 kg
Noise level	73 dB(A)	74 dB(A)	73 dB(A)	74 dB(A)	74 dB(A)
230 Volt – I. No.: (50/60 Hz)	054-8102	054-8103	054-8105	054-8106	054-8107
400 Volt – I. No.: (50/60 Hz)	054-8109***)	054-8110***)	054-8111	054-8112	054-8113
Filter chamber vacuum connection (to be added)					
Vacuum inlet Ø 80 mm Filter chamber with 3 cartridge filters, dust class M	-D80 054-8120 Length of filter 500 mm à 4,2 m“ Total filter area = 12,6 m²				
Vacuum inlet Ø 150 mm Filter chamber with 3 cartridge filters, dust class M	-D150 054-8121 Length of filter 600 mm à 5,0 m“ Total filter area = 15,0 m²				
UPGRADES (optional)					
Dust class „H“-filter cassette 8,4 m²	-H 054-8122				
EX protection acc. to ATEX Zone 22	-EX 054-8123				
ESD version	-ESD 054-8124				

*) Operating data including standard filter equipment in factory condition without further options such as spark trap, pipeline or H-upgrade, etc. The operating point varies due to the power setting and pipe design (Ø, length) as well as measurement at the suction point.

**) With regard to the standard version, varying according to the equipment

***) N-conductor required

Deduster FEX 6000.2 - FEX 6000.7

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Control technology:

Modern control technology according to industry standards facilitates the adaptation of the extraction system to the customers peripherals.

- Units parameters individually adjustable
- Vacuum power continuously adjustable during operation
- Automatic filter dedusting (operational cleaning and post-cleaning)
- Industry standardised control system with good connection to customers system. (As an option)
- Display for unit status and warnings, keypad with large text display
 - Filter status monitoring
 - Unit malfunctions, e.g. low vacuum pressure

Options:

- Signalling faults/warnings via signal lights
- Connection for ON/OFF remote control and report of operating states to external controllers via potential-free contact
- Control of customer exhaust air flap (e.g. Belimo)
- Connection to PreCoat dosing unit
- Operating hours counter



Easy to use control system



Monitoring filter condition via filter differential pressure

Filters and options FEX 6000.2 - FEX 6000.7



Filter inserts and disposal



Filter cartridge – Dust class M

for 3-cartridge filters system, polyester fleece, aluminium coated, cylindrical, electrically conductive
 Ø 200 mm, round thread Ø 100 mm, L 50 mm
 L 500 mm / 4,2 m² **054-20182**
 Only with **vacuum connection** Ø 150 mm (054-8121):
 L 600 mm / 5,0 m² **054-20178**



PTFE filter cartridges – Dust class M

for 3-cartridge filters system, polyester fleece with PTFE-membran, cylindrical, electrically conductive
 Ø 200 mm, round thread Ø 100 mm, L 50 mm
 L 500 mm / 4,2 m² **054-20183**
 Only with **vacuum connection** Ø 150 mm (054-8121):
 L 600 mm / 5,0 m² **054-20179**



Longopac - bag

„Endless“-bag for easy and dust-free disposal of the material. 20 metre foil hose with cable ties for sealing

**VE = 4 units
 á 20 metres**

Strong ESD quality
 Strength: 68 mic. **235-1050**

Strong quality (not ESD)
 Strength: 68 mic. **235-1060**

Options



Pneumatic gate valve

Prevents dust from being blown back into the pipeline during compressed air filter dedusting.

Includes top cover for slider and crap for attachment during maintenance and transport.

For vacuum inlets:

Ø 80 mm **054-8125**
 Ø 150 mm **054-8126**



Vibrator motor for filter dedusting

Supports filter cleaning through additional mechanical vibration, ideal for critical dusts that change their aggregate state (incl. extension module control)

054-8016



Filter cassette – Dust class H

For repurchasing of dust class H filter cassette 497 x 497 x H150 mm dust class H (H13/H14) with handle and guiding rollers.

8,4 m² **054-70179**

Options FEX 6000.2 - FEX 6000.7

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Technical options



PreCoat dosing unit

Doses a filter aid into the extraction unit in fixed cycles. The filters are then coated with a „sacrificial layer“ and thus are protected from e.g. sticky adhesions. Which otherwise cannot be cleaned of the filter.

The filter life cycle is being extended and the filtration results are improved..

Solid inerting: Alternatively it is also suitable as an admixture to reduce the reactivity of complicated dusts.

Including filling level control for PreCoat container

Sensor monitors the filling level of the PreCoat container. The evaluation takes place via PLC. Processing of the signals according to customer agreement.

Compressed air controlled dosing unit including 20 kg container with ready-to-use-EVOMIN precoat powder.

363 x 363 x 990 mm **054-7502**



PreCoat EVOMIN replacement container

Ready-to-use filled replacement container for PreCoat dosing unit, capacity=20 kg.

054-7501

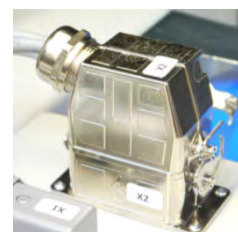
Control technology



Signal indicator terminal, 24 V

For visual reproduction of warning and fault messages.

054-8127



10-pole plug connection

Additional separable plug connection as communication interface.

053-0067



16-pole plug connection

Additional separable plug connection as communication interface.

053-0085



Remote ON/OFF via radio

With hand transmitter and receiver, works with a range up to 350 m. If not in combination with frequency inverter a switch box is required.

Without switch box 054-6933

With switch box 054-6932

Hand transmitter 054-60322



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