EVOTEC

MADE IN GERMANY

Mobile Fume Extraction
FEX 4000

ZERTIFIZIERTES **ISO 9001** QUALITÄTSMANAGEMENT

ZERTIFIZIERTES **ISO 14001** UMWELTMANAGEMENT

EVO PRODUCTS

**INNOVATIVE
EXTRACTION
TECHNOLOGY**

Mobile fume extraction FEX 4000

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★ Powerful extraction system with high air volume to extract smoke, vapours or airborne dusts

★ Reliable filtration due to multi-stage filter system with pneumatic cleaning (compressed air is required)

★ EC blowers suitable for continuous operation (24/7) with infinitely variable volume flow control

★ Modern control technology with device status display and error messages

★ Optional: Connection for on/off remote control

FEX 4000

Versions:

Process adaptable extracion system for the extraction of smoke, vapours or airborne dusts

Permanently operating EC blowers for the extraction of large air volumes to collect suspended dusts.

High quality standards – suitable for **3-shift operation.**

Equipment doors allow easy and low-contamination replacement of the **cartridge filter and cassette filter system.**

Long filter service life due to **automatic pneumatic filter cleaning** (external compressed air required.)

Reliable filtering of suspended particles through the use of a multi-part combination filter system.
Optional: Activated carbon filter to reduce odours in the exhaust air.

Modern control technology enables **infinitely variable regulation** of the extraction performance during operation.

Clear text display for quick **overview of device status**, settings or error sources.

Upgrade optional:
ESD-Version:
Device completely grounded, ESD powder coating and **ESD rollers.**

Upgrade optional:
EX-protected according to ATEX for safe extraction in zone 22: Equipment as well as is parts are electrostatically conductive.

In delivery included:
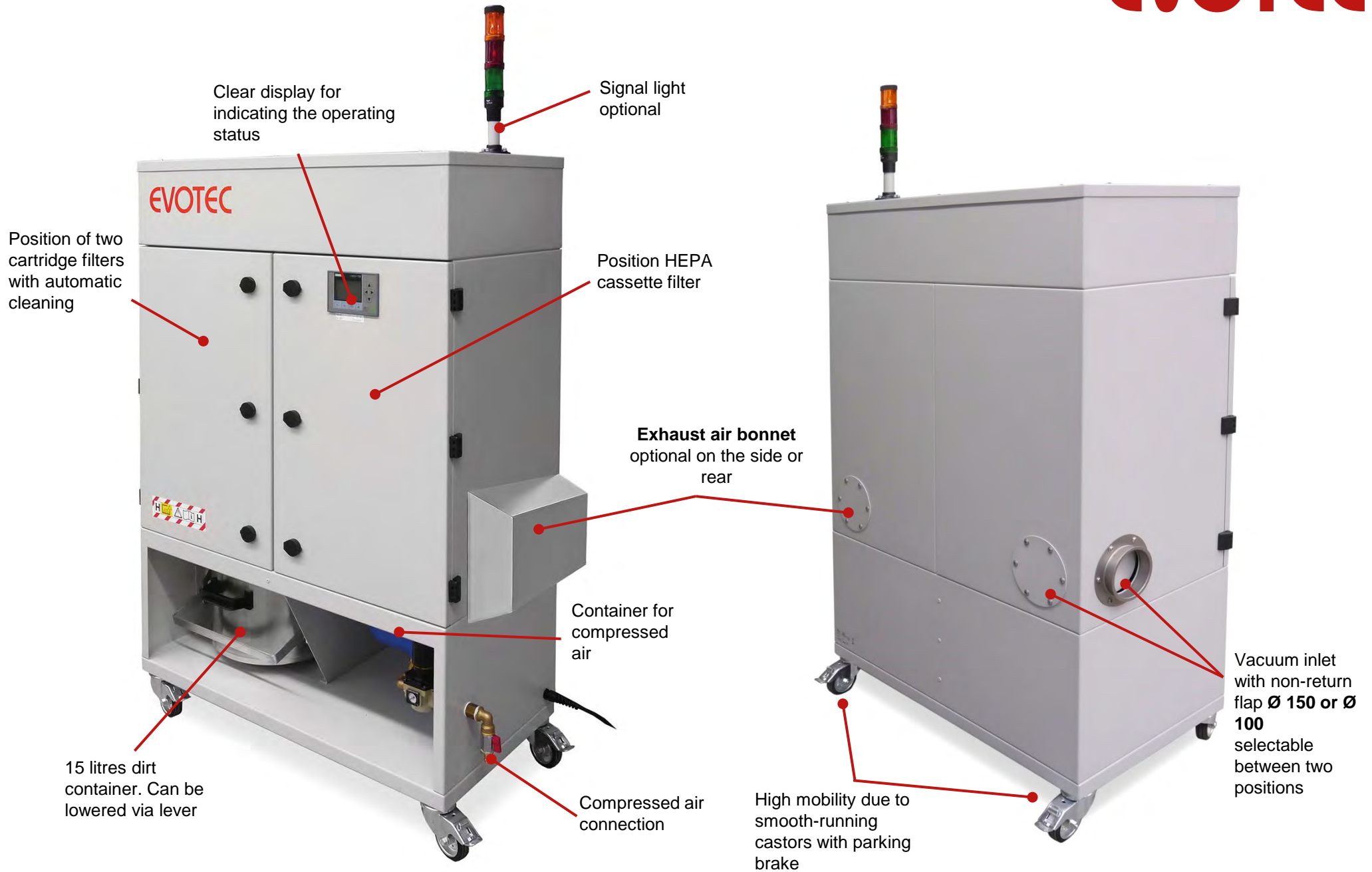Original equipment filter set:
2 cartridge filters

Modell		FEX 4000.1	FEX 4000.2	FEX 4000.3
Voltage at 50/60 Hz.	Volt	230 V – 1 ~ or 400 V – 3 ~ (Neutral conductor is required)	110 V – 1~	100-240 V – 1~ (Multi-range motor)
Engine power	Watt	2 x 1.100 one stage		2 x 1.100 double stage
Max. air flow free blowing at turbine	m³/h	1.000		420
Max. negative pressure	Pa	10.000		23.500
Max. air volume in operating condition approx. *)	m³/h	900		380
Negative pressure in operating condition approx. *)	Pa	9.000		22.500
1st filter stage cartridge filter	m²	8,4		
2nd filter stage HEPA fiter H14	m²	5,6		
Optional: 3rd filter stage activated carbon	kg	5,8		
Noise level	dB(A)	74		
Weight	kg	65		
Dimensions L x W x H	mm	465 x 888 x 1323		
Vacuum and exhaust air connections	Ø mm	150		
Protection class		**IP 54**		
Disposal	Item	15 l dirt container or Longopac system		
Version dirt container 15 l	**I.No**.	**710-4010**	**710-4020**	**710-4030**
Version Longopac disposal	**I.No**.	**710-4040**	**710-4050**	**710-4060**
Upgrade EX-protected **Upgrade ESD-version**	**I.No.** **I.No.**	**054-8042** **054-8044**		

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

Version Longopac disposal

„Endless" bag for easy and dust-free disposal of vacuumed material.

20 m foil hose with cable ties for sealing.

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Clear display for indicating the operating status

Signal light optional

Position of two cartridge filters with automatic cleaning

Position HEPA cassette filter

Exhaust air bonnet optional on the side or rear

Container for compressed air

15 litres dirt container. Can be lowered via lever

Compressed air connection

High mobility due to smooth-running castors with parking brake

Vacuum inlet with non-return flap **Ø 150 or Ø 100** selectable between two positions

FEX 4000

Control technology:

Modern control technology with industry standards facilitates the adaptation of the extraction system to the customers peripheral equipment.

- Device parameters are individually adaptable
- Vacuum power is infinitely variable during operation
- Automatic filter cleaning (operational cleaning and post-cleaning)
- Display of device status and warnings

  - Monitoring of filter status
  - Notification of device malfunctions, e.g. insufficient vacuum pressure

Options:

- Signal malfunctions/warnings via signal lights
- Keypad with large text display
- Monitoring of filling level of dirt container
- Connection for ON/OFF remote control and reporting of operating states to external controllers

FEX 4000

Filter technology:

Independently interchangeable filters:

1st filter stage
- Two cartridge filters with 8,4 m² filter area
- Pneumatic filter cleaning (external compressed air is required)

2nd filter stage
- HEPA filter H13/H14, filter area 5,6 m² in MDF frame as a storage filter

Optional
- Adsorption filter with activated carbon filling 5,8 kg
  (Pressure difference increase is around 10 - 15 %)

High-quality filter materials guarantee **perfect filtration** – so that the exhaust air is also safely cleaned of dusts and substances.

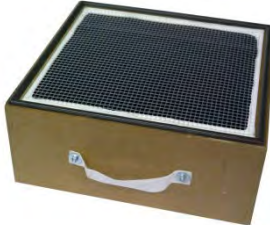Due to the easy accessibility a filter change is user-friendly and low contaminated.

Disposal:

- **Dirt container**: Easy emptying of the material via 2 litres dirt container with lever for lowering. Optionally, the filling level of the container ca be monitored.

- **Longopac disposal system:** Particularly easy low-dust disposal of the material by „endless" bag. 20 m foil hose with cable ties for sealing.
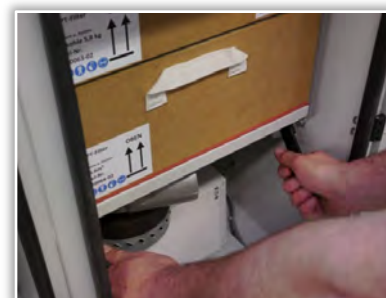
Filters and options FEX 4000

Cartridge filters and storage filters FEX 4000

Filter cartridge – Dust class M
for cartridge filter system, polyester fleece alu-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 filter chamber Ø 150 mm (054-8010):
L 600 mm / 5,0 m²   **054-20178**

PTFE filter cartridge - Dust class M
for cartridge filter system polyester fleece with PTFE membrane, cylindrically electrically conductive.
Ø 200 mm, round thread Ø 100 mm, L 50 mm
L 500 mm / 4,2 m²   **054-20183**
Only with filter chamber Ø 150 mm (054-8010):
L 600 mm / 5,0 m²   **054-20179**

HEPA filter in MDF frame
foamed gasket, glass fibre filter material,**5,6 m²** fillte area, hight 146 mm
Front handles
Class H14   **074-20064-02**

Distance empty frame
Arrangement underneath H14 filter cassette (for ideal performance volume flow) MDF frame with foamed gasket, front handles
Height 146 mm   **074-20065-02**

Storage filters and control options FEX 4000

Combination filter cassete in MDF frame
foamed gasket, H14 glass fibre filter material, **2,8 m²** filter area and activated carbon fill, approx. **3 kg,** height 146 mm
Front handles
(Pressure difference increase is around 8 – 10 %)
H14/AK   **074-20087-02**

Adsorption flter AK-filling
MDF frame with foamed gasket, activated carbon fill approx. **6 kg**, height 146 mm
(Pressure difference increase is around 10 – 15 %)
Activated carbon   **074-20063-02**

Signal light, 24 V
For display of operating status, warning/fault message
054-8046

Multipole plug connection
Disconectable plug connection as communication interface
054-8045

Options and accessories FEX 4000

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Device connection options

Spark trap with knitted metal inlay
Prevents sparks from being sucked in. Easy handling due to clamping rings.

Ø 150 mm	**072-0630**
Ø 200 mm	**072-0638**
Ø 250 mm	**072-0639**

Matching metal knitted inlay
For spark traps

Linear meter   **072-10032**

Ready wound:

Ø 150 mm	**072-0630-01**
Ø 200 mm	**072-0638-01**
Ø 250 mm	**072-0639-01**

Spark trap
Prevents sparks from being sucked into the vacuum cleaner. The air deflection causes the sparks to collide with the copper sheets and extinguish. The spark trap can be cleaned via removable viewing plate.

Connections Ø 150 mm **053-4001**

Hose

Exhaust air vacuum hose PUR
Can be used as exhaust air, vacuum or connecting hose, chemical-resistant and food-grade electrostatically conductive when spiral is grounded. (Illustration: optionally with wire clamp and hose connection piece)

Linear meters:

Ø 150 mm	**052-0326**
Ø 200 mm	**052-0330**

Further versions and fittings can be found in the piping catalogue.

Exhaust air or vacuum hose, PUR antistatic black

Can be used a exhaust air, vacuum or connecting hose, flow and surface resistance $< 10^9$ Ohm

Linear meters:

Ø 150 mm	**072-10037**
Ø 200 mm	**072-10038**

Further versions and fittings can be found in the piping catalogue.

Options and accessories FEX 4000

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Vacuum arm for FEX 4000

Hanging vacuum arm, incl. vacuum hood for FEX 4000

Including wall bracket/suspension for mounting of the extraction arm.

Aluminium version

Ø 125 mm, length 2,0 m	**054-90352**
Ø 125 mm, length 3,0 m	**054-90362**
Ø 160 mm, length 2,0 m	**054-90353**
Ø 160 mm, length 3,0 m	**054-90363**

ATEX version VA (illustration)

Ø 125 mm, length 2,0 m	**054-90350**
Ø 125 mm, length 3,0 m	**054-90360**
Ø 160 mm, length 2,0 m	**054-90351**
Ø 160 mm, length 3,0 m	**054-90361**

Options

Wall bracket/connecting flange

with connection of connecting hose, extraction to vacuum arm.

Ø 125 mm, Aluminium	**054-90336**
Ø 160 mm, Aluminium	**054-90337**
Ø 125 mm, ATEX VA	**054-90334**
Ø 160 mm, ATEX VA	**054-90335**

Acid protection coating

Protects against erosion caused by aggressive vapours, such as those produced by PTFE laser cutting.

Auf Anfrage

Multipole plug connection

Disconectable plug connection as a communication interface.

054-8045

Configuration

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FEX 4000
Front view / right

→ Please mark out what you do not want!

Option:
Signal Tower 054-8046 (surcharge)

Option:
EX-Protection according to ATEX
(Zone 22)
054-8042 (surcharge)

Standard:
For 710-4010 / 710-4020 / 710-4030:
Dirt Container 20l
For 710-4040 / 710-4050 / 710-4060:
Longopac Disposal

Standard:
Exhaust air bonnet on the side (right)

Option:
Exhaust air connection
Ø 150   235-10378
(Price neutral)

Option:
Multipole industrial connector
054-8045 (extra charge)

Approved :

_____
Date, Customer Signature

Configuration

→ Please mark out what you do not want!

FEX 4000
Rear view / left

Option:
Exhaust air connection Ø 150mm
Rear (Price neutral)

Option:
Rear exhaust bonnet (price neutral)

Option:
Suction connection Ø 150mm Rear (price neutral)

Option:
Suction connection Ø 100mm Rear
053-3100 (extra charge)

Option:
ESD version 054-8044 (Surcharge)

Standard:
Suction connection Ø 150mm left

Option:
Suction connection Ø 100mm le'
3100 (Surcharge)

Approved :

_____
Date, Customer Signature

MADE IN GERMANY

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