MADE IN GERMANY

Mobile Fume Extraction FEX 5000





Mobile fume extraction FEX 5000







- ★ Powerful extraction system to extract smoke, vapours or airborne dusts
- ★ Turbine suitable for continuous run (24/7), with large air volume
- ★ Reliable filtration due to graduated combination filter system
- ★ Optional: Connection for ON/OFF remote control
- ★ Optional: EX-protected according to ATEX or ESD version
- ★ Optional: W3 version in recirculation or exhaust air mode
- ★ Storage filter
- ★ Special activated carbon version for extracting gases and odours



Powerful extraction system to extract smoke vapours or airborne dusts.

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

Comfortable filter change due to 2 cassette system with individually removable filter cassettes.

Reliable filtering of suspended particles through the use of a graduated combination filter system.

For the extraction of laser smoke, welding and soldering fumes, cutting fumes as well as various vapours and solvents.

Permanently operational turbine for the extraction of large air volumes to collect suspended dust.

Extraction with up to two hoses or extraction arm, hose connection at the rear, top or sides.

Note: The design of the capture elements have a direct effect on air performance and negative pressure.

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 and parts of equipment electrostatically conductive.

Upgrade optional W3 compliant version (welding fumes):

For exhaust air operation including exhaust air connection or for recirculation operation including displacement outlet.

In delivery included:

Initial equipment set of filters according to individual configuration.

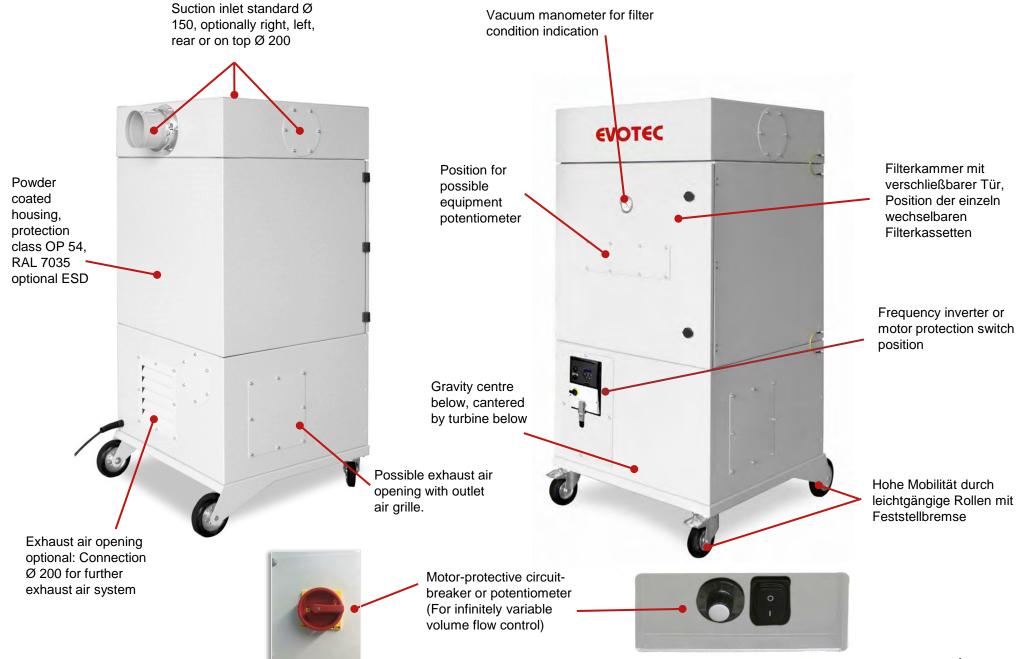
Further suitable accessories such as hoses, extraction arms and replacement filters can be found in the accessories list.

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

Model	Volt	FEX5000.3	FEX5000.4
Voltage at 50/60 Hz.		400	
Engine power	Watt	1.500	2.200
Max. airflow free blowing at turbine	m³/h	2.200	2.500
Negative pressure max.	Pa	3.500	4.000
Air volume in operating condition approx. *)	m³/h	1.900	2.200
Negative pressure in operating condition approx.*)	Pa	3.300	3.800
1st filter stage	m²	19 m² storag	e filter E10
2nd filter stage	m²	20 m² HEPA filter H14	
Speed control included		No	
Dimensions L x W x H	mm	780 x 970	x 1590
Weight (incl. filter)	kg	240	
Vacuum connection	mm	Ø 150 position optional (o	ptional Ø 200 on top)
Exhaust air		Outlet grille (optional exha	ust air connection)
Noise level	dB(A)	75 (during exhau	st air operaion)
Protection class		IP 5 (with vent	
Operating temperature	°C	5 - 40)
Operating humidity	%	10 – 90 % (non condensing)	
Standard version	INo.	710-2012	710-2013
Upgrade: EX-version	INo.	054-8042	
Upgrade: ESD-version	INo.	054-8044	
Upgrade: Frequency inverter	INo.	053-4008	053-4009
Upgrade: W3-version exhaust air	INo.	054-4	012
Upgrade: W3-version recirculation air mode	INo.	054-4	013

FEX 5000

EVOTEC

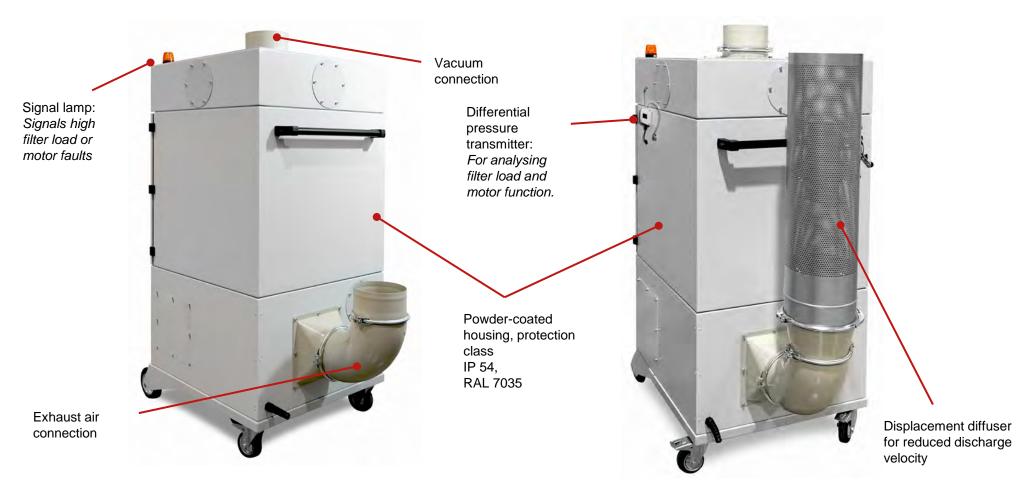


FEX 5000 W3 Upgrade



Exhaust air mode

Recirculation air mode





W3-compliant system for the extraction of welding fumes

FEX 5000 for the extraction of gases and odours



Special activated carbon version

Configuration example: Motor can be used in zones 1 and 2, without additional electronic components. Connection cable end open for connection to the system by the customer. For extracting and filtering gases.

Please contact us about your application.

1st filter stage:

Activated carbon cartridge filter

2nd filter stage:

HEPA Filter: Storage filter E10 or H13 Metal frame

Recirculation air mode



Easy filter-handling FEX 5000

Best filter quality for perfect filtration

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

Each filter is **individually tested** and certificated.

HEPA filters and adsorption filters which are installed in a stable MDF box with seal are completely incinerable.

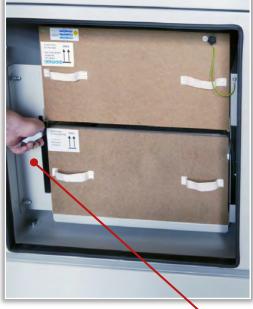
Easy filter replacement due to **separable version.** Can be combined to suit the application and disposed separately depending an the load.

All cassettes with a box height of 292 mm can be combined with ach other. **Note:** Activated carbon cassettes have only half the height (145 mm) due to their weight, therefore 2 pieces are needed.

Filter mats or expanded metal filters can also be inserted in filter boxes with a free internal height.



2 stage combination filter system



Lifting device = separates the filters for easy handling during filter replacement and prevents damage to the filter seals.

Filters and accessories FEX 5000



Storage filters and options FEX 5000



HEPA filter in MDF frame FEX 5000

foamed gasket, glass fibre filter meterial, 19,5 m² filter area, height 292 mm, handles, free internal height= 60 mm

Class E10 **074-20103** Class H14 **074-20104**



HEPA filter in metal frame FEX 5000

Galvanized steel frame with fomed gasket, glass fibre filter material, 19,5 m² filter surface, height 292 mm, free internal height= 60 mm

Class E10 **074-20105**Class H14 **074-20106**



Storage fiter in fan format FEX 5000

In MDF frame, foamed gasket, height 292 mm, **no** free interior height

Class F7 **074-20107**



G4 Fleece mat FEX 5000

 550×550 mm, height 22 mm, can be used as an additional pre-filter in filter cassettes with free internal height.

3 pieces **074-20110**

Storage filters and options FEX 5000



Adsorption filter AK in fan format FEX 5000

8,5 m² synthetic filter with activated carbon in MDF frame, foamed gasket, height 292 mm, **no** free internal height.

Activated carbon foam 074-20108



Adsorption filter AK-filling FEX 5000

MDF frame with foamed gasket, activated charcoal filling 21 kg, perforated plate as handle protection, height 292 mm

Activated carbon 7 mm **074-20088-70**



Adsorption filter AK-filling FEX 5000

Metal frame with foamed seal, activated carbon filling 21 kg, perforated plate as handle protection, height 292 mm

Activated cabon 4 mm 074-20117-40



DDMU Differential pressure transducer

For negative pressure and filter status monitoring.

054-60486

Available as standard in W3 version

Options and accessories FEX 5000



Device connection options



Spark trap with knitted metal inlay

Prevents sparks from being sucked in. Easy handling due to clamping rings.

072-0630
072-0638
072-0639



Matching metal knitted inlay

For spark traps

Linear meter **072-10032**

Ready wound:



Spark trap

Preventssparks 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



Expanded metal filter FEX 5000

As a spark trap arrester to prevent fire hazards, 545 x 545 mm, height 15 mm
Fits into filters with free inner height.

1 piece **074-20109**

Available as standard in W3 version

Hose



Exhaust air suction hose PUR

Can be used as exhaust air, suction 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 suction hose, PUR antistatic black

Can be used a exhaust air, suction or connecting hose, flow and surface resistance < 109 Ohm

Linear meters:

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

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



Suction connection FEX 5000 on top Ø 200 mm

Complete set suction connection \varnothing 200 mm on top of the case cover FEX 5000, consisting of: powder-coated connecting pieces with hose connection \varnothing 200 mm

053-3097



Exhaust air connection FEX 5000

Complete set exhaust air connection FEX 5000 Ø 200 mm with 90 ° arc Ø 200 mm, with powder-coated hose connection **053-3098**

For exhaust air ducting when extracting particularly toxic gases, please contact us.

Options and accessories FEX 5000



Suction arms for FEX 5000



Vertical suction arm, incl. suction hood FEX 5000

Includes bracket for plate feed-through

Aluminium version (illustration)

Ø 125 mm, length 2,0 m	054-90332
Ø 125 mm, length 3,0 m	054-90342
Ø 160 mm, length 2,0 m	054-90333
Ø 160 mm, length 3,0 m	054-90343



ATEX version VA

Ø 125 mm, length 2,0 m	054-90330
Ø 125 mm, length 3,0 m	054-90340
Ø 160 mm, length 2,0 m	054-90331
Ø 160 mm, length 3,0 m	054-90341



Hanging suction arm, incl. suction hood for FEX 5000

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)

054-90350
054-90360
054-90351
054-90361
(

Options



Wall bracket/connecting flange

with connection of connecting hose, extraction to suction 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.



Remote ON/OFF via cable (FSK)

24-Volt with power supply unit (potential-free contact), output voltage 24 Volt AC with transfer point, motor protection relay, changeover switch = 0/Automatic/Manual

for FEX 5000.1 and .2	054-6934
for FEX 5000.3 and .4	054-6930



Multipole plug connection

Disconnectable plug connection as a communication interface.

054-8045

Options and accessories FEX 5000



Device options



Frequency inverter

For FEX 5000.3: **053-4008** Bor FEX 5000.4: **053-4009**



Displacement diffuser

Can be used with recirculation air mode to reduce the discharge velocity.

To be specified when ordering the appliance. Can only be used with elbow connection piece (053-3097).

Available as standard in W3 recirculation air mode.

Configuration



710-2012 710-2013 FEX 5000.3 + .4

Front view / right



Option:

Suction connection Ø 200 mm top 053-3097 or 053-3097VA, or suction connection Ø 150 mm on top 053-4043 (extra charge)



Protective coating inside the unit (extra charge)

Filter allocation:

Option:

→ Please mark with a cross what you do not want!

Upgrade EX-protection 054-8042 (extra charge)

Released:

Date, signature customer

W3 Version exhaust air mode 054-4012 or recirculation air mode 054-4013 (extra charge)

Option:

ESD-version 054-8044 (extra charge)

Option:

Option:

Suction connection Ø 150mm right (Price neutral)

Standard:

Main switch right (not applicable with option FU)

Option:

Frequency converter right (extra charge) FEX 5000.3: 053-4008

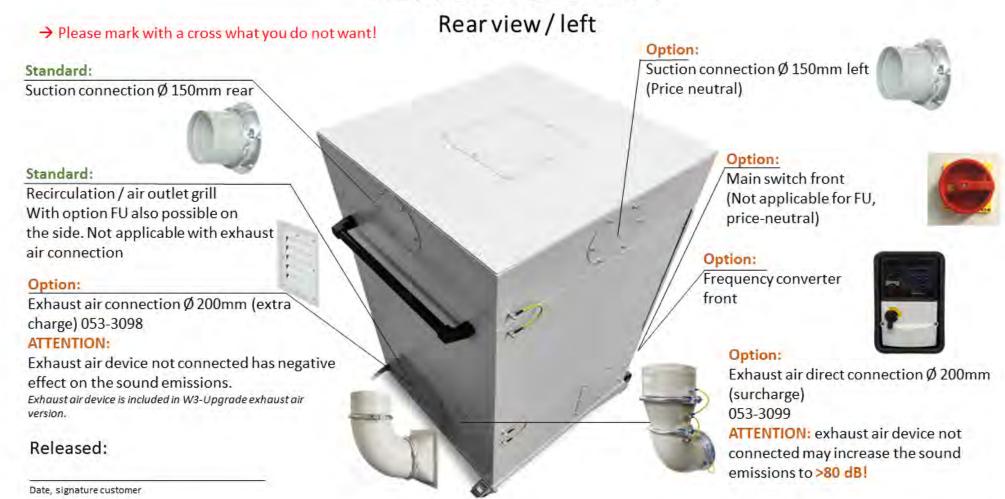
FEX 5000.3: 053-4008



Configuration



FEX 5000.3 + .4



Notes



Notes





EVO-PRODUCTS Blankenburg GmbH – Dieselstraße 3 – 53424 Remagen

Tel.: +49 (0)2642 9373-0 Fax: +49 (0)2642 9373-14 www.evo-products.de – info@evo-products.de