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.

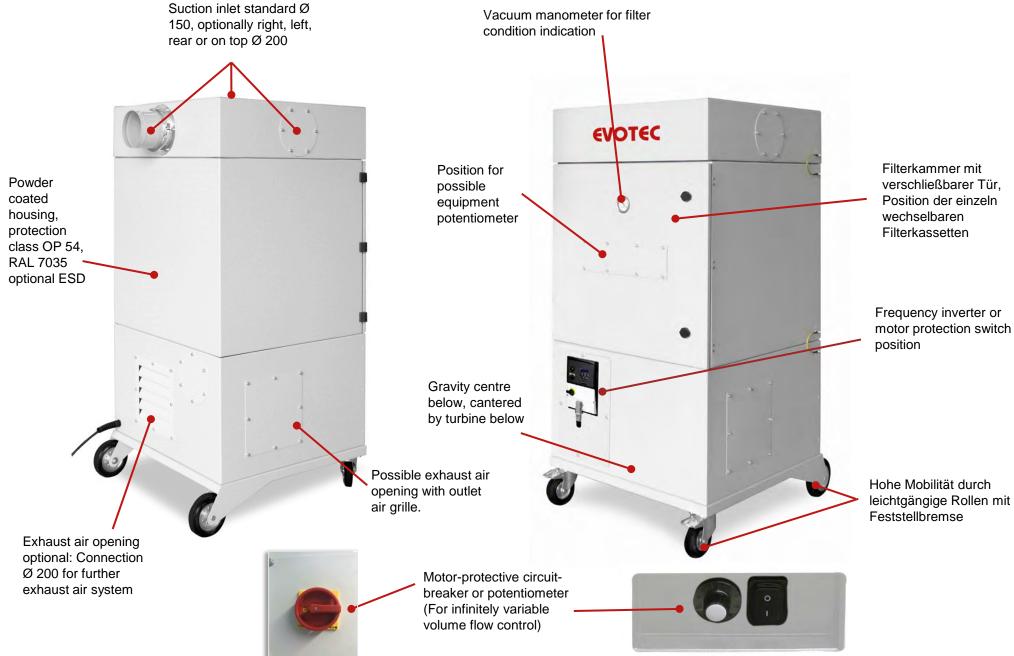
Further suitable accessories such as hoses, extraction arms and replacement filters can be found in the accessories list.

*) Operating data including standard filter equipment in operating conditions without further options such as activated carbon filter, spark trap, pipiing, etc.

Model	Volt	FEX5000.2A	FEX5000.3	FEX5000.4
Voltage at 50/60 Hz.			400	
Engine power	Watt	2.400	1.500	2.200
Max. airflow free blowing at turbine	m³/h	2.800	2.200	2.500
Negative pressure max.	Pa	6.000	3.500	4.000
Air volume in operating condition approx. *)	m³/h	2.500	1.900	2.200
Negative pressure in operating condition approx.*)	Pa	5.600	3.300	3.800
1st filter stage	m²	19 m² Storage filter E10		
2nd filter stage	m²	20 m² HEPA filter H14		
Speed control included		Yes Potentiometer	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 (optional Ø 200 on top)		
Exhaust air		Outlet grille (optional exhaust air connection)		
Noise level	dB(A)	75 (during exhaust air operation)		
Protection class		IP 54 (with vent hood)		
Operating temperature	°C	5 – 40		
Operating humidity	%	10 – 90% (non condensing)		
Standard version	INo.	710-2014	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.	054-4012		
Upgrade: W3 -version recirculation air mode	INo.		054	-4013

FEX 5000

EVOTEC



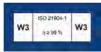
FEX 5000 W3 Upgrade



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.

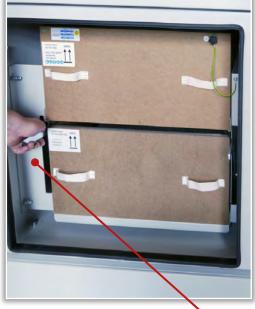
Easy filter replacement due to **separable version.** Can be combined to suit the application and disposed separately depending an the load.

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 x 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.

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:



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)

ATEA VEISION VA (IIIUSHANON)	
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 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.



FEX 5000.2A 710-2014 Front view / right → Please mark with a cross what you do not want! Option: ESD-version 054-8044 (extra charge) Option: Suction connection Ø 200mm top 053-3097 or 053-3097VA (extra charge) Option: Suction connection Ø 150mm right Option: (Price neutral) Protective coating inside the unit (extra charge) Filter allocation: G4 Option: Recirculation Grill right E10 Option: H14 (Price neutral) Upgrade EX protection AK 054-8042 (extra charge) Standard: Operating elements I/O, speed control via Released: potentiometer Date, signature customer



FEX 5000.2.A

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

Rear view / left





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:

G4 E10 H14 AK

Option:

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

054-8042 (extra charge)

Upgrade EX-protection

Released:

Date, signature customer

Option:

W3 Version exhaust air mode

054-4013 (extra charge)

054-4012 or recirculation air mode

Option:

ESD-version 054-8044 (extra charge)

Option:

Suction connection Ø 150mm right (Price neutral)

Standard:

Main switch right (not applicable with option FU)

Option:

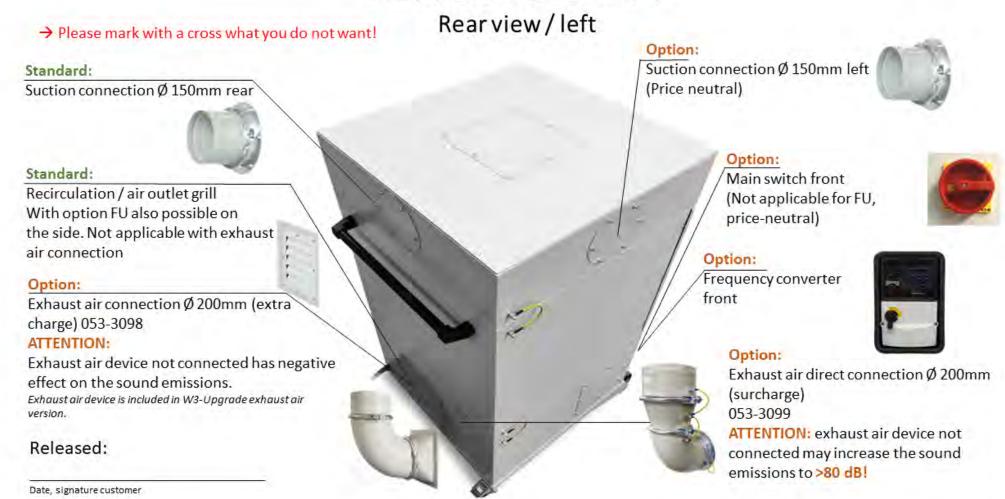
Frequency converter right (extra charge)

FEX 5000.3: 053-4008 FEX 5000.4: 053-4009





FEX 5000.3 + .4





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