EVOTEC

MADE IN GERMANY

INNOVATIVE EXTRACTION TECHNOLOGY 2022/23

EVO PRODUCTS

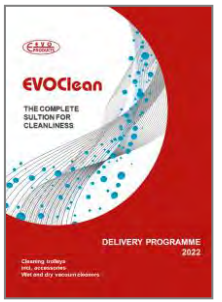
EVOTEC innovative extraction technology

your advantages:

- First-class quality - professional processing
- Robust and durable material
- Convincing through functionality and ergonomics
- Surprisingly new solutions
- Flexible and economical in use
- Since 1985 - strong competence and experience
- High demands on design and user-friendliness

Health protection and occupational safety through:

Please also note our other product lines:



- **EVOTEC:** Mobile Vacuum cleaner with strong suction power and high negative pressure.
- **EVOClean:** Wet-/dry-vacuum cleaner and cleaning trolleys for maintenance cleaning.

If required, we will be pleased to send you our separate 2022/23 catalogues.

Further information and interesting insights can be found online:

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EVOTEC

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Further special voltages or ATEX zones as an upgrade are possible on request. Technical changes are reserved for progress.

Suction technology adapted to your needs

EVOTEC

Holistic customer care at EVO-PRODUCTS

Our free counselling service includes:

- ★ Analysis of the situation
- ★ Definition of capture and filtering
- ★ Product/ solution offer
- ★ Offer capture
- ★ Consultation
- ★ Aftersales service

Many greetings from Remagen!

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ISO 9001

MADE IN GERMANY

Notes on the conception and planning of a stationary system

Before commissioning the system, the operator must check that a safe operation is guaranteed:

- Hazard assessment according to GefStoffV (Ordinance on Hazardous Substances, Ordinance on the Implementation of the Legislative Directive 2014/27/EU)
- When extracting flammable substances: Preparation of explosion protection document according to GefStoffV (Ordinance on Hazardous Substances).
- In Germany: Whether the installation requires a permit, see BImSchG (Federal Immission Control Act) and TA Luft (Technical Instructions on Air Quality Control).

This list does not guarantee completeness. Depending on the installation site of the system, the national and country-specific standards and regulations must be observed.

For the planning and design of a plant, we recommend obtaining further helpful information from the German Social Accident Insurance DGVU **Information No. 209-200 as well as No. 109-002**, e.g.:

- Construction types
- Recirculation or exhaust air operation
- Ductwork and detection elements
- Control, regulation
- Fire and explosion protection
- Overview of laws and regulations, etc.

EBG – Built-in units

- ★ Process-adapted suction unit with high negative pressure for the suction of dry dust particles
- ★ Brushless motor for permanent operation (24/7) and EX-protection
- ★ Simple under-sink device with intelligent features
- ★ Version in stainless steel o request

EBG

Versions:

Valid from 01.01.2022

Compact built-in device with stainless steel container – usable for almost all purposes in industry and trade.

Robust brushless motors are suitable for continuous operation, as well as for 3-shift operation.

High quality cartridge filter for high filter power and high filter lifetime.

Optimal use at:

- At conveyors (e.g. granulate material etc.) to generate vacuum and for the filtration of residual dusts.
- Integration into manufacturing and fabrication processes to generate vacuum.
- As a quiet under table unit, e.g. in goldsmiths, dental laboratories or for engraving.
- Continuous suction of dusts from manufacturing or packaging machines.

Device can be individually adapted according to your requirements, it can be assembled by means of the modular system.

Assemble your system individually from these assemblies:

1.Base plate
2.Dirt container
3.Upgrades

→ Hoses and sleeves (accessories) can be found on p.21

ASSEMBLIES	EBG	EBG	EBG
1. Base plate with turbine (is to be selected from) **including** motor protection, supporting feet **Engine power**	**1.100 W**	**1.100 W**	**1.800 W**
Tecnical details:			
Max. air volume	380 m³/h	180 m³/h	340 m³/h
Max. negative pressure Max. negative pressure in operating condition approx.*)	10.000 Pa 9.500 Pa	23.000 Pa 21.000 Pa	21.000 Pa 19.500 Pa
Noise level on 40% power Noise level on 100% power	60 dB(A) 70 dB(A)	60 dB(A) 70 dB(A)	60 dB(A) 70 dB(A)
Dimensions L x W x H (varies depending on the equipent)	85 x 41 x 65-80 cm	85 x 41 x 65-80 cm	85 x 41 x 65-80 cm
Weight	28 kg	28 kg	30 kg
230 Volt – Item No.: (50/60 Hz) **400 Volt – Item No.: (50/60 Hz)**	**151-2022** -	**151-2023** **151-2062**	**151-2024** **151-2063**
2. Dirt container (to be added) **including** Lid and cartridge filter **Suction lid Ø 50 mm** (Suction through lid via pipe bend)			
28 Litres, Ø 310 mm **38 Litres**, Ø 310 mm **78 Litres**, Ø 400 mm **78 Litres compression**, Ø 390 mm	**054-30133** (28 Litres) **054-30134** (38 Litres) **054-30135** (78 Litres) **054-3393** (78 Litres compression)		
UPGRADES (optional)			
EX-protected ATEX Zone 22 **ESD-version** (RAL 7035)	**054-8042** (EX Zone 22) **054-8044** (ESD-version)		

*) **Operating data** including standard filter equipment in operating condition without further options.

Options and accessories for EBG

Filter options for EBG

Automatic dedusting (PPU)
Automatic control for the atmospheric pulse dedusting of the cartridge filter, suitable for all metal lids.

053-3026

Manual cleaning
Valve with manually operated flap for atmospheric pulse cleaning of the cartridge filter, suitable for all metal lids

054-1414

Textile fleece filter bags
hard wearing, for dust free disposal
(pack = 10 pieces)

For dirt container
28 und 38 literes **115-1022**
78 literes **115-1023**

Please note: If the use of textile filter bags is desired, the option connection piece is required.

Connection piece Ø 60 mm
With deflector for dirt container. Allows the use of fleece filter bags. When selecting the suction hose, pay attention to the suitable container sleeve.

054-3394

Options and accessories for EBG

Cartridge filter dust class M
For replacement, filter surface 0,5 m²,
dust class M

054-20124

Cartridge filter dust class H
Glass fiber, filter area 0,85m², dust class H14

054-20193

Cloth filter bag for compression
polyester fleece, dust class M, disposal of compressed suction material for containers
Ø 390, length 750 mm, reusable **054-20148**

Remote ON/OFF via cable (FSC)
24 volts with power supply unit (potential free contact), output voltage 24 volts AC with interconnection point, motor protection relay, switch. When the switch is in the remote position, the customers remote contact is integrated.

FSC = **054-6936**
Control cable with plug M16 = **072-0621**

Castors
render the built-in unit mobile. Size 80 Ø mm, to screw on under the base plate

Standard **054-40006**
with parking brake **054-40007**

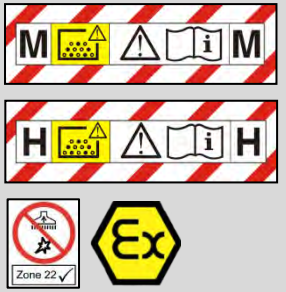
Mobile fume extraction FEX 1000 and FEX 2000

EVOTEC

- ★ Process adaptable extraction system for the extraction of smoke, vapours or suspended dusts
- ★ Powerful EC blower suitable for continuous operation (24/7), large air volume, infinitely variable volume flow control
- ★ Modern control technology with display of device status and filter messages
- ★ Reliable filtration due to graduated combination filter system
- ★ Connection for remote on/off control

FEX 1000
FEX 2000

Versions:



Valid from 01.01.2022

Process adaptable extraction system for the extraction of smoke, soldering smoke, vapours or floating dusts

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

Comfortable filter change by 2- or **3-cassette-system**, each individually removable.

Reliable filtering of suspended particles through the use of a graduated combination filter system. Activated carbon in the main filter reduces odours in the exhaust air.

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

Permanently operational EC blowers for the extraction of large air volumes for the collection of suspended dusts.

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

Easy and convenient adjustment to individual requirements via **intuitive control panel.**

Clear graphic display and large, multi-coloured LEDs for **quick overview** of device status or settings.

EX-protected according to ATEX.

For safe extraction in Zone 22.

W3-Version

including expanded metal filter as spark arrester to prevent fire hazard.

Included in delivery:

Original Equipment Filter Set:

- Storage filter frame F9
- HEPA/ULPA filter H13/H14
- Activated Carbon filter

Model		**FEX 1000**	**FEX 2000**
Voltage at 50/60 Hz.	Volt	230 (or 110)	
Engine power	Watt	1.100	
Air flow max. free blowing at turbine	m³/h	350	
Air flow max. in operating condition *)	m³/h	200	
Maximum usable lengthof suction hose	m	12 (Ø 50 mm)	
Negative pressure max.	Pa	10.000	
Negative pressure in operating condition approx.*)	Pa	9.000	
1st filter stage storage filter frame F9	m²	2,2	2,5
2nd filter stage HEPA filter H13/H14	m²	2,8	5,6
3rd filter stage activated carbon filling	kg	3,0	5,8
Noise level	dB(A)	62	
Weight	kg	22 (+12 Filter)	25 (+20 Filter)
Dimensions L x W x H	mm	436 x 527 x 638	436 x 527 x 882
Protection class		IP 55	
Operating temperature	°C	5 – 40	
Operating humidity (non-condensing)	%	10 – 90%	
Stainless steel quality	VA	1.4301	
EX-protected	**I.No.**	**710-1111**	**710-1121**
W3-Version (Welding fumes)	**I.No.**	**710-1113**	**710-1123**

*) **Operating data** including standard filter equipment in operating condition without additional options such as activated carbon filter, spark trap, pipework, etc.

FEX 1000 and FEX 2000

Highly visible LEDs to indicate the operating status

Intuitive control panel

Clear display

Filter chamber: individually exchangeable filter cassettes, 3-fold graduated combination filter system

High mobility due to smooth-running castors with parking brake

FEX 2000

Connection possibility for suction arm

Double suction connection or suction arm optionally available

Stainless steel housing cover and motor housing

Housing cover and motor housing in stainless steel

8-pin socket for remote ON/OFF

Cooling air opening

Power suply

FEX 1000

FEX 1000 and FEX 2000

Control technology:

Intuitive operation via keypad:

Device parameters individually adaptable

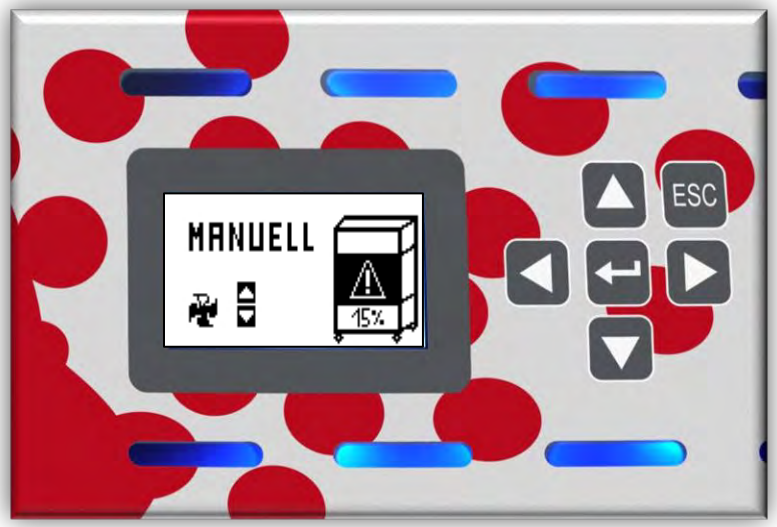
Suction power infinitely variable during operation

Display of device status and warnings in easy-to-understand, intuitive pictograms :

- Filter status
- Malfunctions and warnings can be recognised at a glance by LED colour change

Connection for ON/OFF remote control

Connection to external controllers or devices: 8-pin socket for the possibility of remote on/off switching. The operating status and signals of fault messages can be transmitted potential-free or with 24 V. The matching mating connector is available as an accessory



Replacement filters for FEX 1000

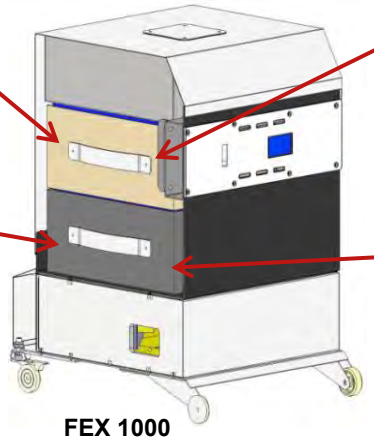
HEPA filters and adsorption filters consist of a stable MDF box with seal and are completely incinerable. Due to the separate design, they can be combined to suit the application and disposed of separately depending on the load.
As a storage filter, an empty frame can be equipped with suitable filter inserts as required. The use of an expanded metal filter is required for the W3 version. (In combination with storage filter empty frame + filter insert + expanded metal filter).

Combination possibilities:

All cassettes height 146 mm can be combined with each other

HEPA filter H13/H14 Cassette
5.6 m² filter surface, height 146 mm with seal
Item No. 074-20064-01

Adsorption filter Activated Carbon Cassette
approx. 6 kg AK,
height 146 mm with seal
Item No. 074-20063-01



FEX 1000

Storage filter empty frame with strip for inserts
Free internal height = 125 mm
Overall height = 146 mm
Item No. 074-20065-01

HEPA Filter
H13/H14 2.8 m² Filter area

Adsorption filter Activated carbon
approx. 3 kg AK

Combination filter cassette H13/H14 and AK
height = 146 mm with seal
Item No. 074-20087-01

Filter change kit
for low-contamination disposal: cover for filter, insert for housing cover, disposal bag, disposable gloves, dust mask
Item No. 072-0632

Suitable inserts for storage filters

Expanded Metal filter
height 15 mm **- 074-20058**

G4 Fleece mat, height 14 mm
Item No. 074-20082

G4-Z-Line 0,3 m² - Cardboard frame
height 48 mm **- 074-20083**

G4-Z-Line 0,6 m² - Cardboard frame
height 96 mm **074-20059**

M5-Filter 0,8 m² - Cardboard frame
height 48 mm **- 074-20084**

9 Filter 2,2 m² - Plastic profile
height 48 mm **-074-20085**

H13 Filter 2,8 m² - Plastic profile
Height 48 mm **-074-20086**

Replacement filters for FEX 2000

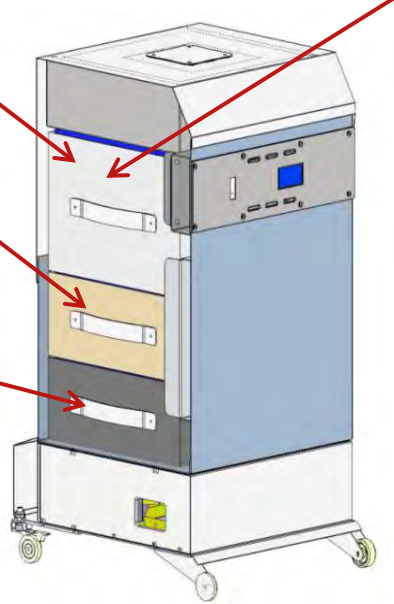
HEPA filters and adsorption filters consist of a stable MDF box with seal and are completely incinerable. Due to the separate design, they can be combined to suit the application and disposed of separately depending on the load.
There is a choice of various storage filter variants: ready-made F9/M5 combi filter cassette or various empty frames, which can be equipped with suitable filter inserts according to requirements.

Memory filter blank frame with F9 filter
Free internal height = 145 mm
Total height = 240 mm
Item No. 074-20041-01

F9 = 2,5 m²

HEPA Filter H13/H14 cassette
5.6 m² filter area,
height 146 mm with seal
Item No. 074-20064-01

Adsorption filter activated carbon cassette
approx. 6 kg AK,
height 146 mm with seal
Item No. 074-20063-01



FEX 2000

Alternative solution:

Memory filter blank frame with strip for inserts
Free internal height = 200 mm
Total height = 240 mm
Item No. 074-20066-01

Filter change kit
or low-contamination disposal:
cover for filter, insert for housing cover, disposal bag, disposable gloves, dust mask
Item No. 072-0632

Suitable inserts for storage filters

Expanded metal filter
Height 15 mm **- 074-20058**

G4 Fleece mat, height 14 mm
Art-No. 074-20082

G4-Z-Line 0,3 m² - Cardboard frame
height 48 mm **- 074-20083**

G4-Z-Line 0,6 m² - Cardboard frame
height 96 mm **– 074-20059**

M5-Filter 0,8 m² - Cardboard frame
Height 48 mm **- 074-20084**

F9 Filter 2,2 m² - Plastic profile
Height 48 mm **- 074-20085**

H13 Filter 2,8 m² - Plastic profile
Height 48 mm **- 074-20086**

FEX 1000 and FEX 2000

Filter technology:

Three independently replaceable cassette filters
FEX 2000 = 3 filter cassettes
FEX 1000 = 2 filter cassettes
MDF frame, completely incinerable

Filter stage 1, storage filter:
M5/F9 combination of synthetic pleat and glass fibre fleece, filter surface 1.2 m² / 5.0 m²

Optionally, the storage filter can be supplemented by exchangeable filter inserts in various filter qualities.

Filter stage 2, HEPA filter:
HEPA H13/14, filter area 5.6 m²

Filter stage 3, adsorption filter:
activated carbon filling 5.8 kg
Available for welding fume extraction: Expanded metal filter as spark protection.

User-friendly, low-contamination filter change

For a simple change of the filter is a replacement kit consisting of: Filter cover, disposal bag, dust mask and disposable gloves separately available.

Mobile fume extraction FEX 3000

- ★ Process-adapted suction system for the extraction of smoke, vapours, aerosols and odours
- ★ Powerful EC-Turbine suitable for continous operation (24/7), large air volume, stepless airflow control
- ★ Modern control technology with display of unit status and error messages
- ★ Reliable filtration due to graduated combi filter system
- ★ Connection for ON/OFF remote control
- ★ **Stainless steel body (VA 1.4301)**

FEX 3000

Versions:

Valid from 01.01.2022

FEX 3000

Highly visible LEDs to indicate the operating status

Intuitive control panel

Clear display

Individually exchangeable filter cassettes, 3-fold graduated combination filter system

Operating lever for lowering the filter cassettes when changing filters

High mobility due to smooth-running castors with parking brake

Connection option extraction arm

Various openings for suction connection, each 2 x Ø 50 mm, rear, right or left

Sturdy, ergonomic push handle

Stainless steel case protection class IP 55

Protected exhaust air opening and electrical connections, for service detachable scoop

Lower turbine, therefore low centre of gravity

Process-adapted suction system for the extraction of smoke, vapours, aerosols and airborne particles

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

Comfortable filter change by **3-cassette-system**, each individually removable.

Reliable filtration of airborne particles by the use of an graduated kombi filter system. Activated carbon in the main filter reduces odours in the exhaust air.

For the extraction of laser fumes, welding- and soldering fumes, cutting fume as well as different steams and solvents.

EC-Turbine can be used for **continuous operation**, for the suction of large air volumes to collect airborne particles.

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

Easy and comfortable adaption to the individual needs by an **intuitive control panel.**

Clear graphic display and large, multicolour LEDs for a quick **overview of the device status,** settings or error sources.

ESD and EX-protected according to ATEX
for the secure suction
in Zone 22:
Equipment and parts of the device electrically conductive.

W3-design –
IFA certified
including expanded metal filter as spark trap to avoid fire hazard

Included in delivery:
Initial equipment set Filter:
- Storage filter frame F9
- HEPA filter H13/H14
- Activated carbon-Filter

Model		**FEX 3000**
Voltage 50/60 Hz.	Volt	230 (or 110)
Engine power	Watt	1.100
Max. air flow free blowing at turbine	m³/h	460
Max. air flow in operating condition*)	m³/h	260
Maximal length o suction hose	m	12 (Ø 50 mm)
Negative pressure max.	Pa	10.000
Negative pressure in operating condition max.*)	Pa	9.000
1st filter stage storage filter frame with F9	m²	2,5
2nd filter stage HEPA filter H13/H14	m²	5,6
3rd filter stage activated carbon	kg	5,8
Noise level	dB(A)	62
Weight	kg	25 (+20 Filter)
Dimensions L x W x H	mm	430 x 400 x 996
Protection class		IP 55
Operating temperature	°C	5 – 40
Operating humidity (non condensing)	%	10 – 90%
Stainless steel quality	VA	1.4301
ESD and EX-protection (electrostatic conductive)	**Item No.**	**710-1131**
W3-Design (Welding fumes)	**Item No.**	**710-1132**

*) **Operating data** including standard filter equipment in operating condition without additional options such as activated carbon filter, spark trap, pipework, etc.

FEX 3000

Control technology:

Intuitive operation via keypad

Unit parameter individually adaptable

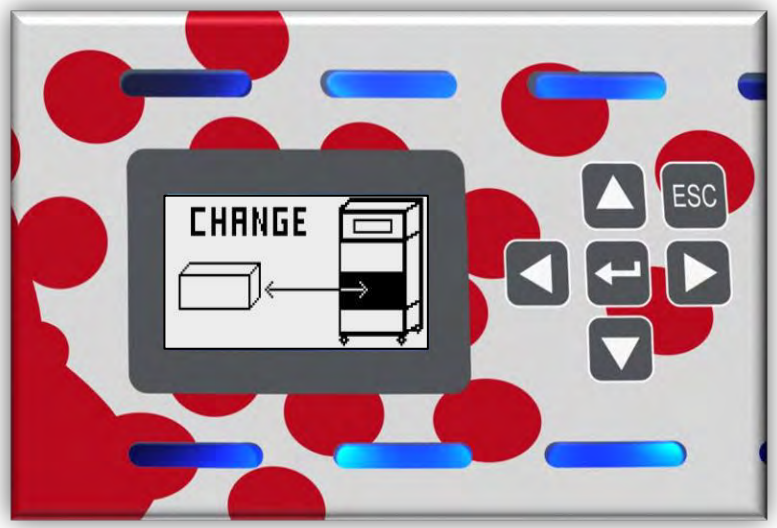
Continuously variable control of the suction power during operation.

Display of unit status and warning messages in easy understandable, intuitive pictograms:

- Filter status - Filter warning at 80% fill level
- Fill level warnings
- Unit errors, e.g. hose blocked, door open etc.
- Messages of filter break (optional)
- Messages of saturation activated carbon (optional)

Errors and warnings visible at a glance by changing of the LED colours.

Connection for on/off remote control
Connection to external controllers or devices:
8-pin socket for the possibility of remote on / off switching.
Operating status and signals of fault messages can be forwarded potential-free or with 24 V.
The matching mating connector is available as an accessory.



Replacement filters for FEX 3000

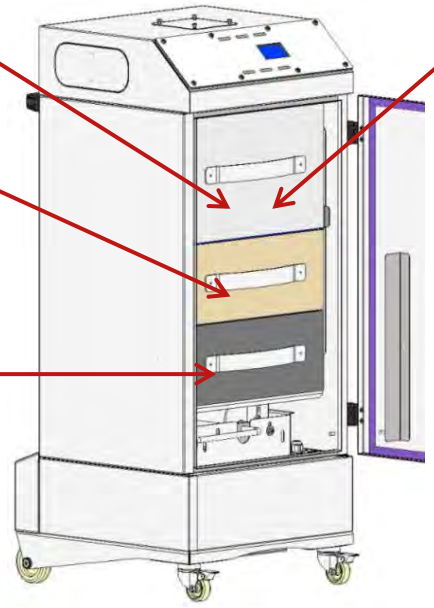
HEPA filter and adsorption filter consist of a sturdy MDF-box with sealing and are fully incinerable. Due to the separate variant, the filters can be combined depending on the application and be disposed separately depending on the filter load.
As storage filter, different variants can be chosen: ready-to-use combi filter cassette F9/M5 or diverse system frames, which can be equipped with different filter insets depending on the application.

Storage filter – system frame with F9-filter
Free inner height = 145 mm
Total height = 240 mm
Item No. 074-20041-02

F9 = 2,5 m²

HEPA filter
H13/H14 cassette
5,6 m² Filter surface,
Height 146 mm incl. sealing
Item No. 074-20064-02

Adsorption filter
Activated carbon cassette
ca. 6 kg AK,
Height 146 mm incl. sealing
Item No. 074-20063-02



FEX 3000

Alternative solution:

Storage filter – system frame with rail for insets
Free inner height = 200 mm
Total height = 240 mm
Item No. 074-20066-02

Filter change kit
for contamination poor disposal:
Coverage for filter, slide-in for device lid, disposal bag, disposable gloves, dust mask
Item No. 072-0632

Matching insets for storage filter

Expanded metal filter
height15 mm **- 074-20058**

G4 fleece mat, height 14 mm
Item No. 074-20082

G4-Z-Line 0,3 m² - Cardboard frame
height 48 mm **- 074-20083**

G4-Z-Line 0,6 m² - Cardboard frame
Height 96 mm **– 074-20059**

M5-Filter 0,8 m² - Cardboard frame
height 48 mm **– 074-20084**

F9 Filter 2,2 m² - Plastic profile
height 48 mm **– 074-20085**

H13 Filter 2,8 m² - Plastic profile
height 48 mm **- 074-20086**

FEX 3000

Filter technology:

Three individual removable filter cassettes
MDF-frames, fully incinerable

1st filter step, storage filter:
M5/F9-combination of synthetic pleat and glass fibre fleece, filter surface 1,2 m² / 5,0 m²
Optionally, the storage filter may be supplemented by changeable replacement-insets in different filter qualities.

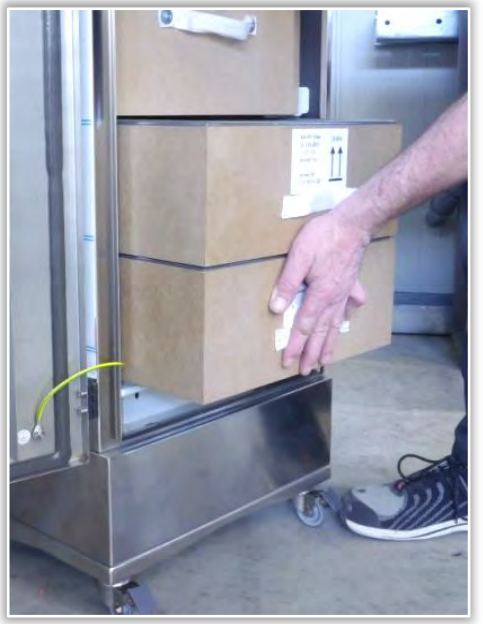
2nd filter step, HEPA filter:
HEPA H13/H14, filter surface 5,6 m²

3rd filter step, adsorption filter:
activated carbon filling, 5,8 kg

Available for welding fume extraction: Expanded metal filter as spark protection.

User-friendly, low contamination filter change. The cardboard cover and slide-in cardboard supplied with the replacement filter prevent soiling inside the unit.

For an easy filter change, an additional filter change kit is available. Consisting of: Filter coverage, disposal bag, dust mask and disposable gloves.



Options and accessories FEX 1000 to FEX 3000

EVOTEC

Suction hose and connections FEX 1000 to 3000

Suction hose PUR black antistatic
Contact and surface resistance < 10^9 Ohm
linear meter
Ø 50 mm **072-10007**
End sleeve electrically conductive
for PUR-suction hose, 1 piece
Ø 50 mm **072-10025**

Suction hose PP for W3-design
linear meter (not suitable for EX)
Ø 50 mm **072-10003**
Fitting
for PP-suction hose, 1 piece
Ø 50 mm **072-10001**

Additional suction port only for FEX 3000
Panel with 2 openings á Ø 50 mm, sealing, closing plug, for the connection of further suction hoses
2 x Ø 50 mm **072-0607**

Closing plug
For closing of suction openings not needed
Ø 50 mm **072-0609**

Suction hose & exhaust hoses FEX 1000 to 3000

Adapter for connection suction hose
For installation on top of the device, including hose clamp
Ø 50 mm **072-0620**
Ø 80 mm **072-0603**

Exhaust air or suction hose
PUR black antistatic
Can be used as exhaust air or suction hose, throughput and surface resistance < 109 Ohm
linear meter
Ø 80 mm **072-10011**
Ø 100 mm **072-10035**

Exhaust air hood with exhaust hose connection
Exhaust air hood with connection for exhaust hose
Ø 80 mm **072-0610**
Ø 100 mm **072-0637**

Wire clamps single
For suction or exhaust air hoses, galvanized steel
Ø 50 mm **054-10090**
Ø 80 mm **054-10091**
Ø 100 mm **054-10092**

Options and accessories FEX 1000 to FEX 3000

Options FEX 1000 to FEX 3000

Spark trap with knitted metal inlay
prevents sparks from being sucked in. For integration in pipe system or suction hose

Ø 50 mm	**072-0626**
Ø 80 mm	**072-0628**

Matching metal knitted inlay for

Ø 50 mm	**072-0626-01**
Ø 80 mm	**072-0628-01**

Expanded metal filter

as a spark arrester to prevent fire hazard, suitable for use in storage filters

Piece 074-20058

Cyclone pre-separator ESD

for the pre-separation of larger quantities of fine dust. 28-l dirt container made of stainless steel, cyclone made of ESD plastic,
connections Ø 50 mm

28 litres container **053-1045**

Options FEX 1000 to FEX 3000

Triangular socket wrench
for FEX3000 front door
Piece **074-20016**

Stand Set
For increased stability of the system, e.g. for operation with suction arm
Set **072-0350**

Power supply cable
with angled cold appliance plug, 5 meters

with EU Schuko plug **072-0343**
open at the end **072-0130**

Options and accessories FEX 1000 to FEX 3000

Options FEX 1000 to FEX 3000

Mating connector for 8-pin female connector
for connection to external controllers or devices for remote control, without cable
Piece **072-0621**

Gas and particle sensor
as supporting monitoring unit for damaged filters or saturated activated carbon **Attention:** The unit must be ordered together with machine
Board Unit **072-0618**

Test aerosol
Test spray for functional testing of gas and particle sensors
Can **072-0625**

Protective coating
in the upper housing area, recommended for the extraction of acidic vapours
Attention: To be ordered together with machine
FEX 3000 **072-0619-02**
FEX 1000 / 2000 **072-0619-01**

Suction arms

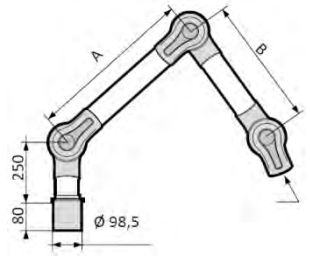
Extraction arms enable **spot extraction** directly at the point of origin. The **self-supporting construction** with three stable joints makes it easy to handle and position.
Standard version: Aluminium with polypropylene joints.
ESD version: for ESD areas (electrostatic discharge, certified according to IEC 61340-5-1).
Ideal for use in laboratories, electronics manufacturing, pharmaceutical industry, etc.
+ Energy saving
+ Low noise
+ Low pressure drop

Suction arm for table mounting
Includes bracket for plate feed-through
Figure:
Standard version
Ø 50 mm - Range 1,300 mm
Option: hood tube and flat hood

Suction arm for ceiling or wall mounting
without bracket
Figure:
ESD/ATEX version
Ø 50 mm - Range 1,300 mm
Option: hood tube and flat hood
Option: small wall bracket

Options and accessories FEX 1000 to FEX 3000

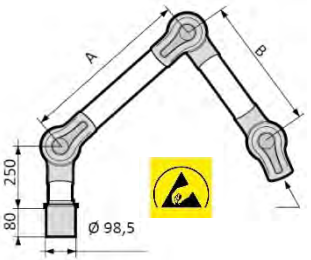
Suction arms



Standard suction arm for table mounting
Including console for panel feed-through

Ø 50 mm
Length 1.300 mm **072-0400**
Length 1.500 mm **072-0401**

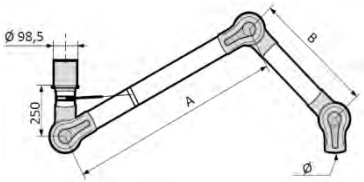
Ø 75 mm
Length 1.300 mm **072-0402**
Length 1.500 mm **072-0403**



ESD suction arm for table mounting
Including console for panel feed-through

Ø 50 mm
Length 1.300 mm **072-0400-ESD**
Length 1.500 mm **072-0401-ESD**

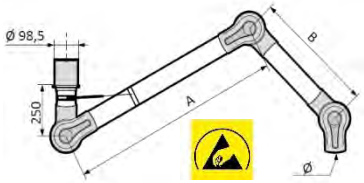
Ø 75 mm
Length 1.300 mm **072-0402-ESD**
Length 1.500 mm **072-0403-ESD**



Standard suction arm for ceiling or wall mounting, without console

Ø 50 mm
Length 1.300 mm **072-0404**
Length 1.500 mm **072-0405**

Ø 75 mm
Length 1.300 mm **072-0406**
Length 1.500 mm **072-0407**

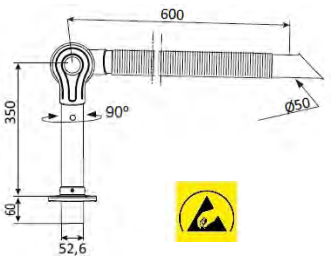


ESD suction arm for ceiling or wall mounting, without console

Ø 50 mm
Length 1.300 mm **072-0404-ESD**
Length 1.500 mm **072-0405-ESD**

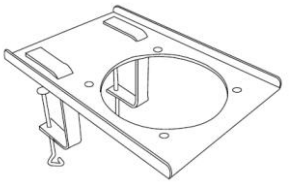
Ø 75 mm
Length 1.300 mm **072-0406-ESD**
Length 1.500 mm **072-0407-ESD**

Suction arms and consoles



Flexible ESD suction arm for table mounting
Including console for panel feed-through

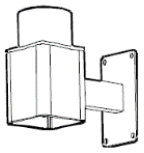
Ø 50 mm
Range 600 mm **072-0400-ESD**



Flexible table console
Flexible holder for mounting on table tops or shelves. Supplied complete with two screw clamps.
Suitable for

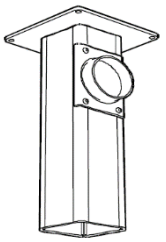
For 072-0400-ESD: **072-0409-ESD**

Universal for Ø 50 mm and Ø 75 mm
Standard **072-0428**
ESD **072-428-ESD**



Wall console
Universal console for suction arm for wall mounting.
Suitable for Ø 50 mm and Ø 75 mm

Standard **072-0427**
ESD **072-0427-ESD**



Ceiling console
The holder also functions as an exhaust air duct.
Universally suitable for Ø 50 mm and Ø 75 mm

Standard, length 250mm **072-0418**
ESD, length 250mm **072-0418-ESD**

Standard, length 1000mm **072-0421**
ESD, length 1000mm **072-0421-ESD**

→ Other designs/ lengths on request

Optionen and accessories FEX 1000 to FEX 3000

Hoods and nozzles

Flat hood 300 x 200 mm

Especially suitable for gases and vapours. High suction efficiency in vertical position to the table surface, including hood tube

Standard Ø 50 mm **072-0414**
ESD Ø 50 mm **072-0414-ESD**
Standard Ø 75 mm **072-0415**
ESD Ø 75 mm **072-0415-ESD**

Suction tip, length 300 mm

For smaller, concentrated sources of pollutants; cantilevered suction tip for increased suction efficiency

Standard Ø 50 mm **072-0410**
ESD Ø 50 mm **072-0410-ESD**
Standard Ø 75 mm **072-0411**
ESD Ø 75 mm **072-0411-ESD**

Flexible suction tip, length 600 mm, ESD

High efficiency paired with high flexibility

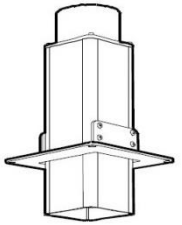
ESD Ø 50 mm **072-0412**
ESD Ø 75 mm **072-0413**

Round hood

Metal hood Ø 250 mm, including hood tube

Standard Ø 50 mm **072-0432**
ESD Ø 50 mm **072-0432-ESD**
Standard Ø 75 mm **072-0433**
ESD Ø 75 mm **072-0433-ESD**

Accessorie suction arm



Telescopic ceiling console
length up to 1000 mm

The holder also functions as an exhaust air duct. Universally suitable for Ø 50 mm and Ø 75 mm

Standard **072-0426**
ESD **072-0426-ESD**

Straight hood tube

Spare part for hood, also suitable as straight inlet nozzle

Standard Ø 50 mm **072-0429**
ESD Ø 50 mm **072-0429-ESD**
Standard Ø 75 mm **072-0430**
ESD Ø 75 mm **072-0430-ESD**

Reduction

Material PP

Standard Ø 100-50 mm **072-0416**
ESD Ø 100-50 mm **072-0416-ESD**
Standard Ø 100-75 mm **072-0417**
ESD Ø 100-75 mm **072-0417-ESD**

Protective guard

For mounting in Ø 75 mm joint

Standard Ø 75 mm **072-0431**
ESD Ø 75 mm **072-0431-ESD**

Mobile fume extraction FEX 4000

MADE IN GERMANY

- ★ 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:

Valid from 01.01.2022

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 ist parts are electrostatically conductive.

In delivery included:
Original equipment filter set:
- Storage prefilter E10
- HEPA filter H14

Further suitable accessories such as hoses and spare filters can be found in the accessories list.

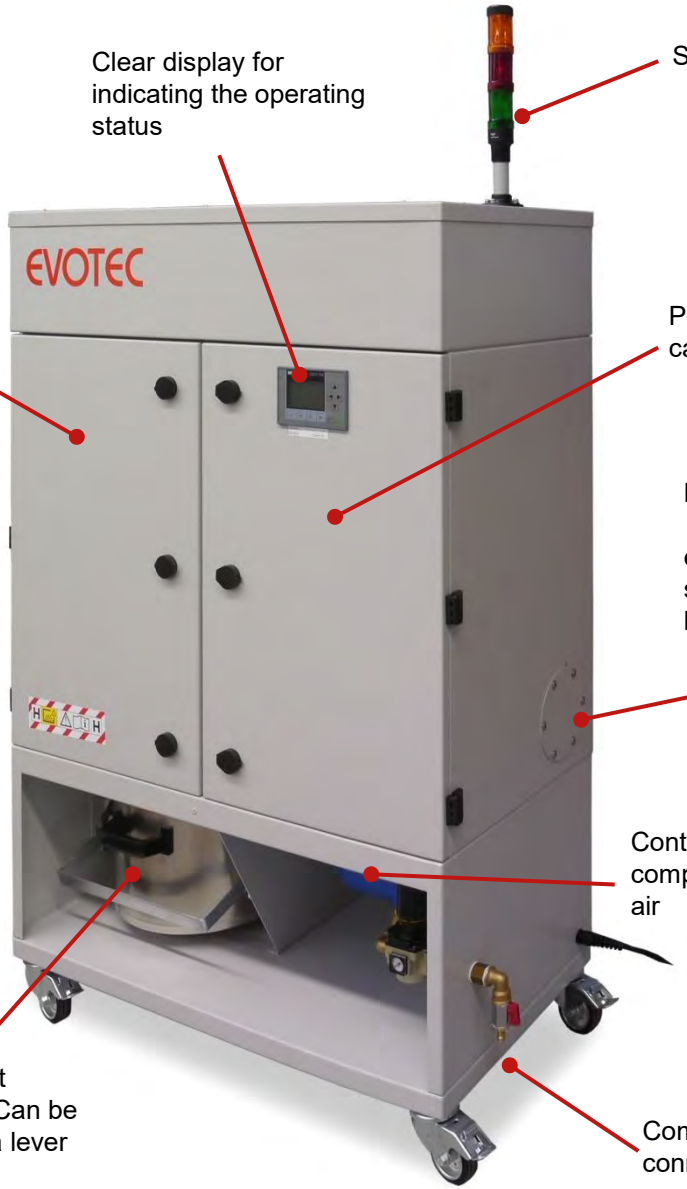
Version Longopac disposal
„Endless“ bag for easy and dust-free disposal of sucted material. 20 m foil hose with cable ties for sealing.

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		
Suction and exhaust air connections	Ø mm	150		
Protection class		**IP 54**		
Disposal	Item	20 l dirt container or Longopac system		
Version dirt container 20 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.

FEX 4000

EVOTEC



Clear display for indicating the operating status

Signal light

Position of two cartridge filters with automatic cleaning

Position HEPA cassette filter

Exhaust air opening Ø 150 to connect the external exhaust air system. Selectable between two positions

Container for compressed air

20 litres dirt container. Can be lowered via lever

Compressed air connection

Suction inlet with non-return flap **Ø 150** selectable between two positions

High mobility due to smooth-running castors with parking brake

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 individully adaptable
- Suction 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 suction 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 suction 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 suction material by „endless“ bag. 20 m foil hose with cable ties for sealing.

Filters and options FEX 4000

EVOTEC

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
Disconnectable plug connection as communication interface
054-8045

Mobile fume extraction FEX 5000

MADE IN GERMANY

- ★ 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
- ★ Storage filter

FEX 5000

Versions:

Valid from 01.01.2022

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.

Reference: The design of the sensing 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

Filters are not included in the delivery. Please select the matching filter from our range. You will find suitable accessories such as hoses, extraction arms and filters for each specific application in the accessories list.

Upgrade
Frequency inverter

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
Max. negative pressue	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		
Suction connection	mm	Ø 150 Position optional (optional Ø 200 on top)		
Exhaust air		Outlet grille (optional with suction connection)		
Noise level	dB(A)	78		
Protection class		IP 54 (with vent hood)	IP 54	
Operating temperature	°C	5 – 40		
Operating humidity	%	10 – 90% (non condensing)		
Standard version	**I. No.**	**710-2014**	**710-2012**	**710-2013**
Upgrade: EX version	**I. No.**	**054-8042**		
Upgrade: ESD version	**I. No.**	**054-8044**		
Upgrade: Frequency inverter	**I. No.**	---	**053-4008**	**053-4009**

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

FEX 5000

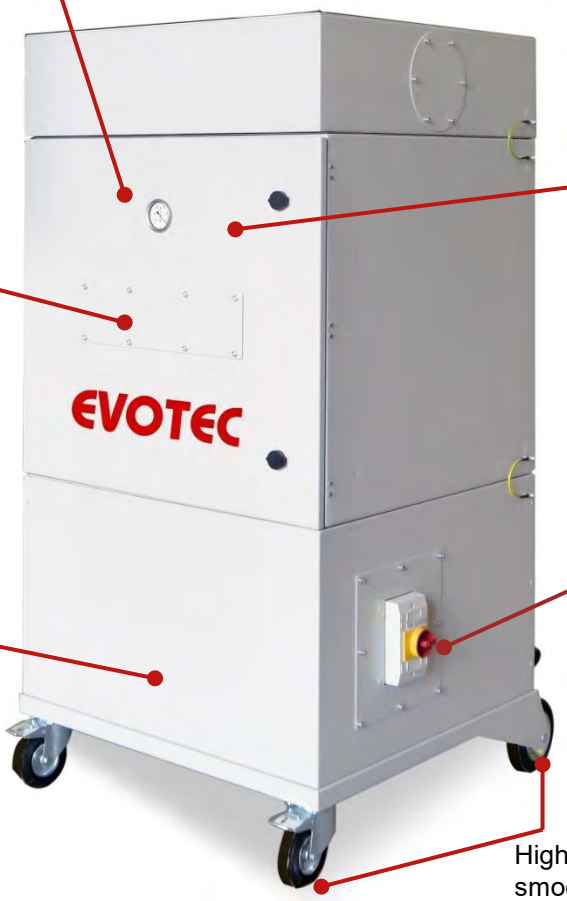
Suction inlet standard Ø 150, optionally right, left, rear or on top Ø 200

Vacuum manometer for filter condition indication

Powder coated housing, protection class OP 54, RAL 7035 optional ESD

Position for potentiometer equipment

Filter chamber with lockable door, position of the individually exchangeable filter cassettes



Gravity centre below, cantered by turbine below

Motor-protective circuit-breaker

Possible exhaust air opening with outlet air grille.

Exhaust air opening optional: Connection Ø 200 for further exhaust air system

High mobility due to smooth-running castors with parking brake

Motor-protective circuit-breaker or potentiometer (For infinitely variable volume flow control)

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

EVOTEC

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

Options and accessories FEX 4000 and FEX 5000

Device connection options

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

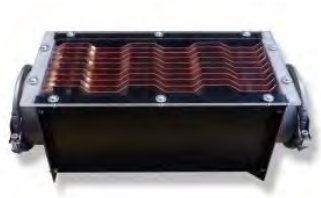
Ø 150 mm	**072-0630**
Ø 200 mm	**072-0638**
Ø 250 mm	**072-0639**

Matching metal knitted inlay
For spark traps

Linear meter	**072-10032**

Ready wound:

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



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**

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 < 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.

Suction connection FEX 5000 on top Ø 200 mm
Complete set suction connection Ø 200 mm on top of the case cover FEX 5000, consisting of: powder-coated connecting pieces with hose connection Ø 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 4000 and/or FEX 5000

Suction arms for FEX 4000 and/or 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 4000 and FEX 5000

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

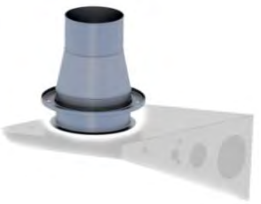
Aluminium version

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)

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

Industrial dust extractor EP 2701 – EP 2702 – EP 2703

MADE IN GERMANY

- ★ Robust equipment with V2A stainless steel (1.4301)
- ★ Strong suction motors, suitable for permanent operation
- ★ M-Filter cartridges with automatic filter cleaning
- ★ Disposal in „endless“ plastic bag (ESD) or dirt container
- ★ Suction connection Ø 80 mm or 150 mm
- ★ Optional: Cartridge filter H13/14
- ★ Optional: ATEX in zone 22
- ★ Optional: ESD version
- ★ With 1, 2 or 3 motors

EP 2701
EP 2702
EP 2703

Versions:

Valid from 01.01.2022

Detail explanation

Example: EP 2702-M3PF-H-D150-LPP

Exhaust air vent Ø 150 mm provides the opportunity of connection to a pursuing exhaust air system.

Suction connection Ø 80 mm or Ø 150 mm for a secure connection of the suction hose or a pipe system.

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

ESD version (Upgrade)
- **Device completely grounded**
- **ESD powder coating**
- **ESD feet, castors**

Configure your individual plant from following assemblies:

1. **Engine power**
2. **Filter components**
3. **Filter chamber with suction connection**
4. **Disposal system**
5. **Upgrades**

Example: EP 2702-M3PF-H-D80-60L

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

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

Specially developed for he reliable suction and filtration of dusts which occur during miscellaneous work processes.

Critical fine dusts are reliably aspirated and filtered.

Pneumatic filter cleaning via SPS controller.

Volume flow stepless adjustable.

1st filter stage: Dust class M
M-cartridge filter or
M-pocket filter

2nd filter stage: Dust class H
Absolute cartridge filter **(H13/14)**
(Upgrade)

Filter differential pressure measurement for filter monitoring included.

Optional **dirt container** or **Longopac disposal system:**
„Endless“ plastic bag for easy and contamination-free disposal of the suction material.

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

ASSEMBLIES	EP 2701	EP 2702	EP 2703
1. Engine power (is to be selected from)	**1 x 1.100 W**	**2 x 1.100 W**	**3 x 1.100 W**
Voltage at 50/60 Hz:	**110 V – 1 ~ or 230 V – 1 ~ or** 400 V – 3 ~ (N-conductor required)		
Max. airflow rate at turbine	450 m³/h	910 m³/h	1.360 m³/h
Max. negative pressure	10.000 Pa		
Air flow in operating condition approx.*)	440 m³/h	900 m³/h	1.350 m³/h
Negative pressure in operating condition approx. *)	9.500 Pa		
Protection class	IP 54 (if exhaust air ist connected)		
Noise level	72 dB(A)	74 dB(A)	74 dB(A)
Dimensions L x W x H **)	90 x 72 x 140-230 cm		
Weight	124	127	130
Art-No.:	**054-8001**	**054-8002**	**054-8003**
2. Filter unit dust class M (to be added)			
„**M**“ – 3 cartridges **á 4,2 m² (12,6 m²)**	-M3PF **054-8004**	(3 x M-filter cartridge á 4,2 m²)	
„**M**“ – 1 cartridge (10,0 m²)	-M1PF **054-8005**	(1 x M-filter cartridge 10,0 m²)	
„**M**“ – Pocket filter (4,1m²)	-MTF **054-8006**	(Pocket filter 4,1 m²)	
3. Filter chamber suction connection (to be added)			
Suction inlet Ø 80 mm	-D80 **054-8009**	-D80 **054-8009**	
Suction inlet Ø 150 mm		-D150 **054-8010**	-D150 **054-8010**
4. Disposal system (to be added)			
Longopac endless bag	-LPS **054-8011**	(Unit with heavy duty lid)	
Longopac endless bag	-LPP **054-8015**	(Unit with pneumatic actuated output)	
60 l dirt container	-60L **054-8012**	(60 l dirt conatiner)	
100 l dirt container	-100L **054-8013**	(100 l dirt container)	
Hopper with universal connection	-TU **054-8014**	(Hopper with universal connection)	
UPGRADES (optional)			
Dust class „H“-filter cartridge, 4,3 m²	-H **054-8007**	(H-filter cartridge 4,3 m²)	
EX protection acc. To ATEX Zone 22	-EX **054-8042**	(EX version ATEX zone 22)	
ESD version	-ESD **054-8044**	(ESD version)	

*) **Operating data** including standard filter equipment in factory condition without further options such as spark trap, pipelines or H upgrade, etc..
**) Regarded to the standard version, varying according to equipment.

EP 2701 to EP 2703

Control technology:

Modern control technology with industry standards facilitates the adaptation of the extraction system to the customer's peripherals.

- Device parameters individually adaptable
- Suction power infinitely variable during operation
- Automatic filter cleaning (operational cleaning and post-cleaning)
- Control with industry standards, good connection to the customers system. (Optional)
- Display of device status and warnings
  - Monitoring filter status
  - Device malfunctions, e.g. insufficient suction pressure

Options:

- Signal malfunctions/warnings via signal light
- Keypad with large text display
- Monitoring of dirt container level
- Connection for ON/OFF remote control and indication of operating states to external controllers via potential-free contact
- Control of customer-side exhaust air damper (e.g. Belimo)
- Connection of PreCoat dosing unit
- Operation hours counter

Easy to operate control system

Optional with text display

Filter state monitoring (DDMU)

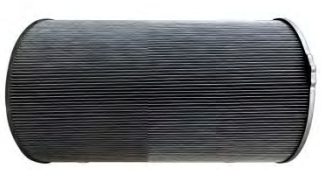
Filters and options EP 2701 to EP 2703

Filter elements for EP 2701 to EP 2703

Filter cartridge – Dust class M
for 3 cartridges filter 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 **suction conn.** Ø 150 mm (054-8010)
L 600 mm / 5,0 m² **054-20178**

PTFE-Filter cartridge – Dust class M
for 3 cartridges filter system, polyester fleece PTFE coated, cylindrical, electrically conductive
Ø 200 mm, round thread Ø 100 mm, L 50 mm
L 500 mm / 4,2 m² **054-20183**
Only with **suction conn.** Ø 150 mm (054-8010)
L 600 mm / 5,0 m² **054-20179**

Filter cartridge – Dust class M
for 1 cartridge filter system, polyester fleece, aluminium coated, cylindrical, electrically conductive
Length: 600 mm, Ø 328 mm
10,0 m² **054-20110**



PTFE-Filter cartridge – Dust class M
for a cartridge filter system, polyester fleece PTFE coated, cylindrical, electrically conductive, installation on the clean gas side
Length: 600 mm, Ø 328 mm,
10,0 m² **054-20146**

Filters and options for EP 2701 to EP 2703

Pocket filter – Dust class M
4,1 m² filter area, 20 pockets
Material: PUR-Coating NOVATES
4,1 m² **054-20108**

Dust class H (H14) – Absolut cartridge filter
Glass fibre, support grid on both sides, Ø 500 mm
for further purchase for H-Upgrade
4,3 m² **054-20033**

Vibratory motor for filter cleaning
Supports filter cleaning by additional mechanical vibration, ideal for critical dusts that change their aggregate state. (Incl. extension module control)
054-8016

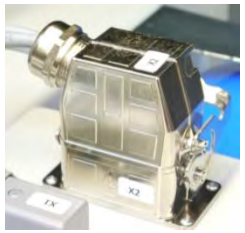
DDMU Differential pressure transducer
For monitoring negative pressure and filter states.
054-60486

Accessories and options EP 2701 to EP 2703

Control technology EP 2701 to EP 2703

Signal indicator tower, 24 V
For optical reproduction of warning and fault messages.

054-8046



10-pole plug connection
Additional seperable plug connectiion as a communication interface

053-0067

16-pole plug connection
Additional seperable plug connectiion as a communication interface

053-0085

Text display control
Text display to control the monitor of operating states and control the system

054-60523

Disposal options EP 2701 to EP 2703

Plastic disposal bag, antistatic ESD
VE = 10 pieces

for dust-free disposal of dust classes M and H.
Extremely stable and „nail test“-tested. Perfect fit due round bottom design – by-pass not necessary!

Suitable for:
60-l container = **235-1021**
100-l container = **235-1031**

Longopac disposal

„Endless“ bag for simple and dust-free disposal of suction material. 20 meter film 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 EP 2701 – EP 2702 – EP 2703

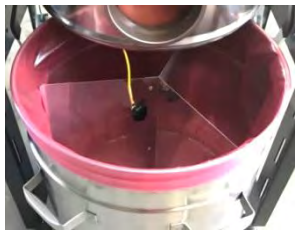
Dirt container options EP 2701 to EP 2703

Spare or replaceable container Ø 500
enables simple and quick disposal outside of site, with swivel castors

60 litres	**054-3210**
100 litres	**054-3220**

Matching lid with handles

Ø 500 mm	**054-20090**



Seperating insert for dirt container
Avoids hovering of very light sucion matter, incl. earthing cable.
Suitable for dirt container Ø 500 mm.

für 60-l container	**054-30121**
für 100-l container	**054-30122**

Level monitoring for dirt container
Capacitive sensor monitors the level of the dirt container. The evaluation takes place via SPS and must be adapted to a customer-specific application.
054-8040

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**

Do you need further information and advice?

Feel free to call us, we will be happy to help you with the configuration!

Tel.: +49 (0) 2642/9373-0

Or contact us via e-mail:

vertrieb@evo-products.de

Central extraction system EP 2815 – EP 2822

MADE IN GERMANY

- ★ For extraction of free-flowing, dry dusts and smoke during welding, grinding, polishing and floating dust extraction.
- ★ Powerful medium-pressure turbine suitable for continuous operation (24/7), large air volume
- ★ Frequency converter for volume flow control
- ★ M-filter cartridges with automatic compressed air cleaning
- ★ PreCoat as filter aid (optional)
- ★ H-cassette filter H13/14 (optional)
- ★ ESD version or
  EX protected version according to ATEX zone 22 (optional)

EP 2815
EP 2815-100
EP 2822

Versions:

Valid from 01.01.2022

Powerful stationary extraction system with high air volume to collect and filter dry and hazardous dusts.

Ideal for extraction of free-flowing dry dusts an smoke during welding, grinding, polishing, cutting metals or plastics or at transfer stations.

High quality standards – maintenance-free **energy efficient IE3** medium pressure turbine suitable for **3-shift operation.** Ideal for extraction of large air volumes t collect suspended dust **– e.g. resulted from laser cutting.**

Comfortable lowering of the 35 l dirt container for easy disposal of the suction material.

Modern cartridge filter system: Resistant polyester filters with large filter area in **dust class M.** Including monitoring and display of filter condition on control side.

Automatic time-controlled cleaning of the cartridge filters by compressed ait (external compressed air connection is required) Integrated impact separator for the pre-separation of coarse suction material.

Upgrade EX protection: Device can be fully grounded as a preventive protective measure for safe usage in accordance with ATEX in zone 22.
Optional additional protective measures, e.g. relief valve or rapture disc available on request.

Upgrade ESD version
- completely grounded
- ESD powder coated
- Feet/castors ESD

Energy efficient control that can **be adapted to** customer processes.

Speed control
The power of the unit is set to a fixed speed (Hz. display)

Or optional:

Suction pressure control (PID)
The required air volume is determined by sensors in the system and the frequency inverter controls automatically to the appropriate negative pressure (mbar display).

ASSEMBLIES	EP 2815	EP 2822
1. Motor and control (is to be selcted from)		
Engine power	**1 x 1.500 W**	**1 x 2.200 W**
Voltage	400 V - 3~ - 50/60 Hz.	
Max. motor rated current	3,0 Amp	4,0 Amp
Max. air volume	2.050 m³/h	2.500 m³/h
Max. negative pressure	3.300 Pa	3.500 Pa
Operating air flow approx. *)	1.650 m³/h	1.950 m³/h H
Operating negative pressure approx. *)	2.800 Pa	3.200 Pa
Protection class	IP 54 (if exhaust air is connected)	
Noise level	67 dB(A)	
Suction connection	Ø 150 mm (Optional position)	
Exhaust air connection	Ø 200 mm (Optional position)	
Dirt container	35 litres	
Dimensions L x W x H **)	740 x 800 x 1970 - 2380 mm	
Operating temperature	5 – 35 °C	
Operating humidity	10 – 70 % non-condensing	
Weight	180	182
Art.-No. Motor housing	**054-8031**	**054-8033**
2. Filter unit dust class M (to be added)		
„**M**“ – 4 cartridges **á 4,2 m² (16 m²)**	-M4PF	**054-8036** (4 x M filter cartridges á 4,2 m²)
„**M**“ – 1 cartridge **(10,0 m²)**	-M1PF	**054-8037** (1 x M filter cartridge 10,0 m²)
UPGRADES (optional)		
Dust class H 8,4 m² Filter area	-H	**054-8035** (H filter cassette 8,4 m²)
Activated carbon in.l. 2 AK-panels	-AK	**054-8034** (Activated carbon)
EX protection ATEX for zone 22	-EX	**054-8042** (EX version ATEX for zone 22)
ESD version electrically conductive	-ESD	**054-8044** (ESD version)

*) **Operating data** including standard filter equipment in factory condition without further options such as spark trap, pipelines or H upgrade, etc.
**) Regarding to the standard version, varying according to equipment.

Assemble your system individually from the two assemblies:
1. Motor and control components
2. Filter unit and disposal system

EP 2815 to EP 2822

Crane eyelets for easy installation and transport

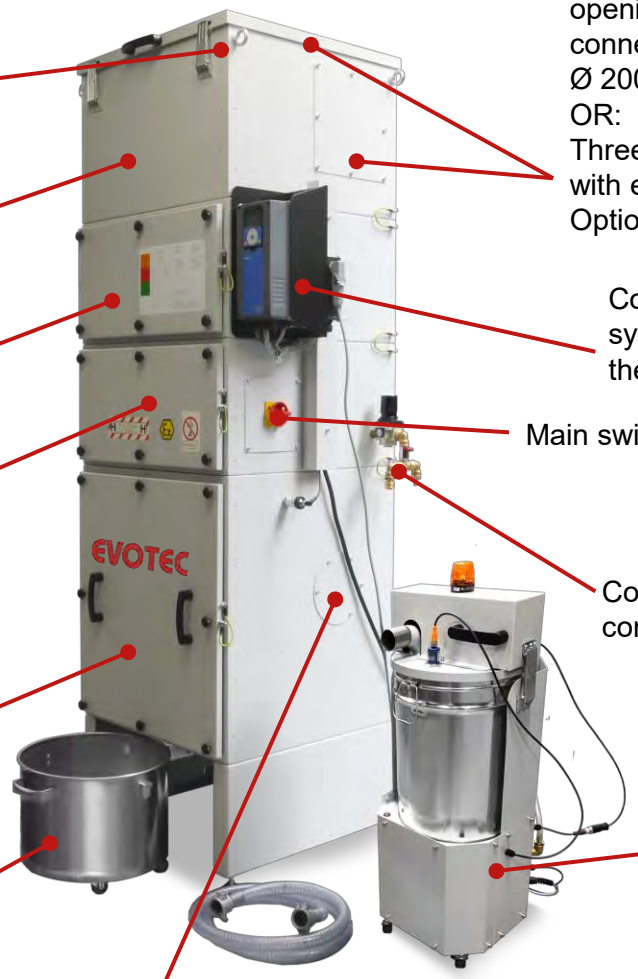
Chamber with medium pressure turbine **IE3**

Position filter dust class H

Position flushing gas tank 11 litres

Position cartridge filters, optionally 4 x 4,2 m² to 5,0 m²
1 x 10 m²

35 litres dirt containe r with swivel castors



Suction inlet with flare nozzle Ø 150 mm, 3 openings optional: Right, left, rear

Top: Exhaust air opening with flared connecting piece Ø 200 mm (standard) – OR:
Three further openings with exhaust air grille. Optional: right, left, rear

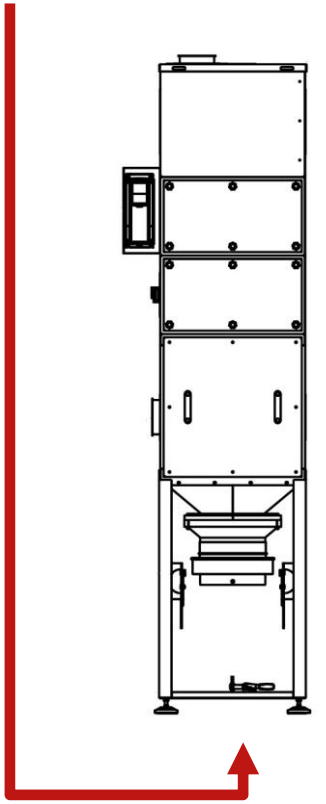
Control unit of the system an retrieval of the signalling states

Main switch

Compressed air connection

Optional:
PreCoat dosing unit
to protect the filters against sticky dusts or as a constant admixture for complicated dusts.

Kit with Longopac disposal may be added on request



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

EP 2815 to EP 2822

Control technology:

Modern control industry standard technology facilitates the adaptation of the extraction system to the customers peripheral equipment:

- **Speed control**
  The power of the unit is set to a fixed speed (Hz.-display)
  Suction power can be infinitely adjusted during operation **or optional:**
- **Suction pressure control (PID)**
  The demand of (the air volume) is determined by sensors in the unit and the frequency inverter controls automatically as well as energy-efficiently to the pre-set negative pressure. (mbar-display)
- Automatic time-controlled filter cleaning (initial and operational cleaning as well as post-cleaning)
- Display of device status and warnings
  - Monitoring of filter status
  - Device malfunctions, e.g. insufficient suction pressure

Options:

- Signalling malfunctions/warnings via signal lights
- Monitoring of the dirt container level
- Connection for ON/OFF remote control and reporting of operating states to external controllers
- Usage of PreCoat dosing unit
- Control of customer-side exhaust ait shut-off damper

EP 2815 to EP 2822

Filter technology:

Independently interchangeable filters

1st filter stage:

- Four cartridge filters **dust class M** with a total filter area of 16,8 m² (Polyester fleece, aluminium coated)
- Automatic and pneumatic filter cleaning 8external compressed air is required)

Upgrades to be ordered when ordering device:

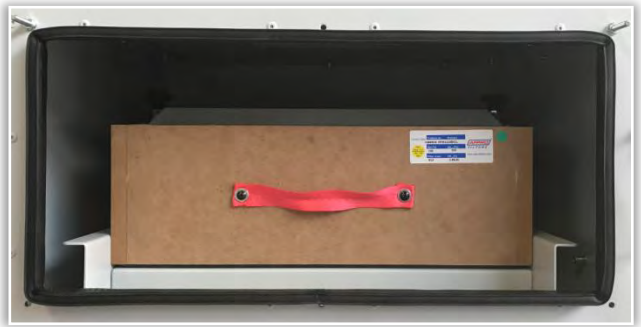
Optional:
HEPA filter H13/14, filter area 8,4 m² in MDF frame as a storage filter.

Optional:
Adsorption filter with **activated carbon** as panels before exhaust air. For exhaust ait connection, the cover with connection pipe 054-70202 must be added!

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

For complicated dusts, the cartridge filters are available with a **PTFE** coating as an alternative.

Easy access makes filter replacement user-friendly and low-contaminated.



Filters and options EP 2815 to EP 2822

Filter cartridges for EP 2815 to EP 2822

Filter cartridge – Dust class M
for 4-cartridge filter 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**
L 600 mm / 5,0 m² **054-20178**

PTFE filter cartridge – Dust class M
for 4-cartridge filter system
Polyester fleece, PTFE coated, cylindrical, electrically conductive
Ø 200 mm, round thread Ø 100 mm, L 50 mm
L 500 mm / 4,2 m² **054-20183**
L 600 mm / 5,0 m² **054-20179**

Filter cartridge – Dust class M
for 1-cartridge filter system
Polyester fleece, aluminium coated, cylindrical, electrically conductive
Length: 600 mm, Ø 328 mm, with tension anchor for fastening on the raw gas side

10,0 m² **054-20189**

PTFE-Filterpatrone, Staubklasse M
for 1-cartridge filter system
Polyester fleece, PTFE coated, cylindrical, electrically conductive. Length: 600 mm, Ø 328 mm, with tension anchor for fastening on the raw gas side
10,0 m² **054-20190**

Filters und options for EP 2815 to EP 2822

Vibrating motor for filter cleaning
Supports cartridge filter cleaning by additional mechanical vibration, ideal for critical dusts that change their aggregate state (incl. additional card control)

054-8047

Filter cassette – dust class H
to purchase for dust class H upgrade
Filter cassette 497 x 497 x H150 mm
Dust class H (H13/H14)
with handle an guide rollers

8,4 m² **054-70176**

Activated carbon panels
to purchase for AK upgrade to adsorb odours
Size: 605x605x32mm
For the AK module two pieces are required!

1 piece **054-70175**

Cover bonnet with exhaust air connection

→ Required with activated carbon upgrade

Ø 200 mm **054-70202**

Options EP 2815 to EP 2822

EVOTEC

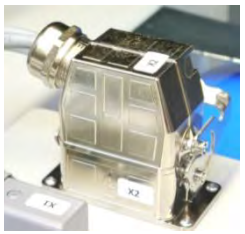
Technical options

Extension electric box
is required if the relay outputs supplied as standard with the frequency inverter are not sufficient, e.g. if options such as a PreCoat dosing unit and/or potential-free remote signalling (operation, malfunction, maintenance) and/or additional sensors, etc. are added.

054-8038

Signal indicator tower, 24 V
For optical reproduction of warning and fault messages.

054-8039



10-pole plug connection
Additional seperable plug connectiion as a communication interface

053-0067

16-pole plug connection
Additional separable plug connection as a communication interface

053-0085

Dirt container options

Spare or replaceable container
enables simple and quick disposal outside of site

35 litres **054-3111**

Matching lid with handles for 35-l-container

Ø 400 mm **054-20114**

Plastic disposal bag, antistatic ESD
VE = 10 pieces for dust-free disposal of dust classes M and H.
Extremely stable and „nail test“-tested. Perfect fit due round bottom design – by-pass not necessary!
35-l-Behälter **235-1011**

Level monitoring for dirt container
Capacitive sensor monitors the level of the dirt container. The evaluation takes place via SPS and must be adapted to a customer-specific application.

054-8040

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**

Dust extractor FEX 6000.2 to FEX 6000.7

EVOTEC

MADE IN GERMANY

- ★ 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)
- ★ Suction 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:

Valid from 01.01.2022

Detail explanation

Example: FEX 6000.5-D80-H

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

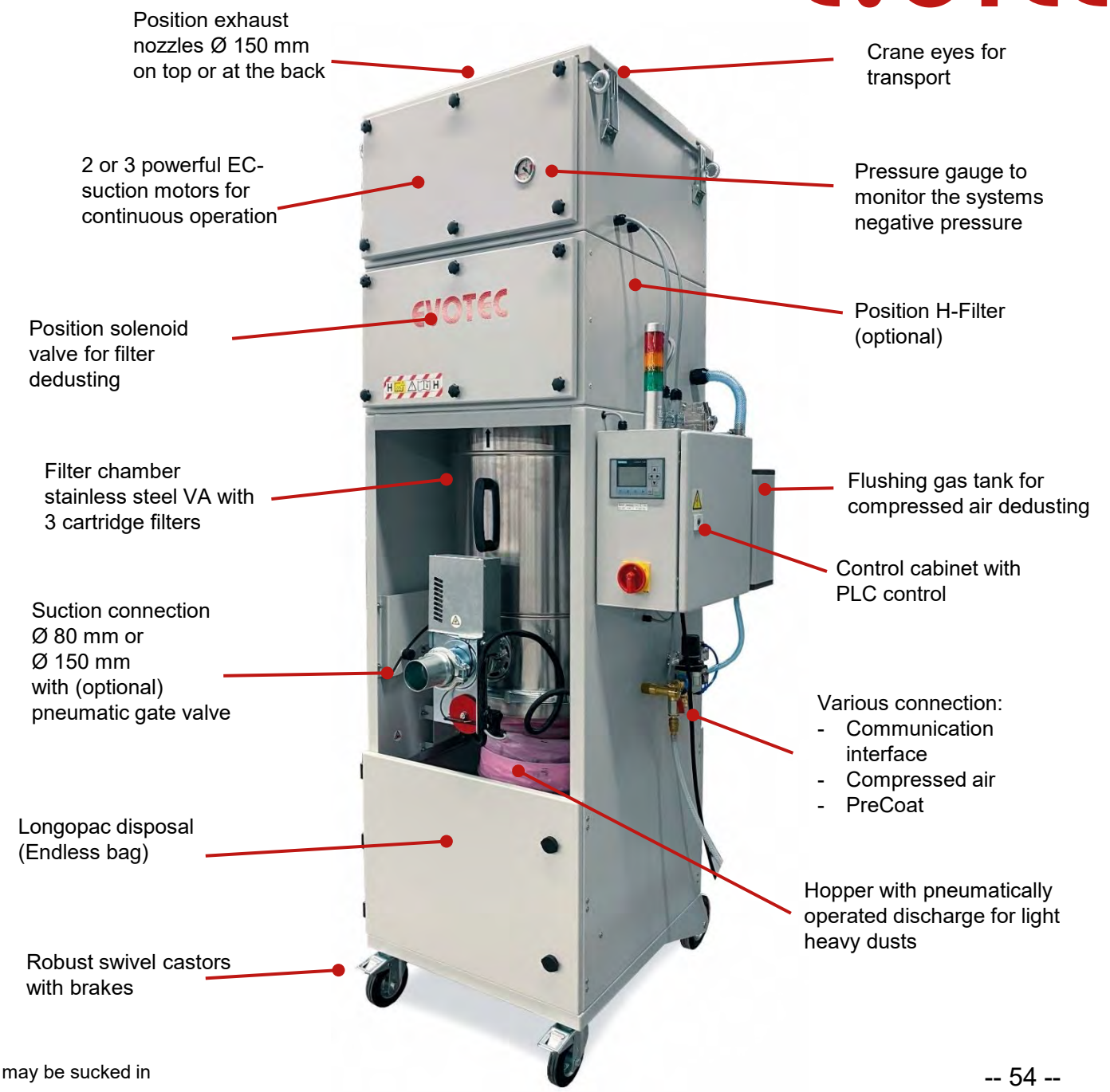
Connection nozzles Ø 80 mm or Ø 150 mm for safe connection of the suction hose or connection to piping system.

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 suction inlet**
3. **Upgrades**



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

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

Specially developed for the reliable suction 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.

As an Upgrade:

2nd filter stage: Dust class H
Absolute-cartridge filter **(H13/14)**

Including filter differential pressure measurement for filter monitoring.

Longopac disposal:
„Endless"-plastic bags for easy and contamination-free disposal of the suction 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 (if exhaust air is connected)				
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 suction connecton (to be added)					
Suction 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**				
Suction 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 cartridge 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.
**) With regard to the standard version, varying according to the equipment
***) N-conductor required

Deduster FEX 6000.2 to FEX 6000.7

EVOTEC

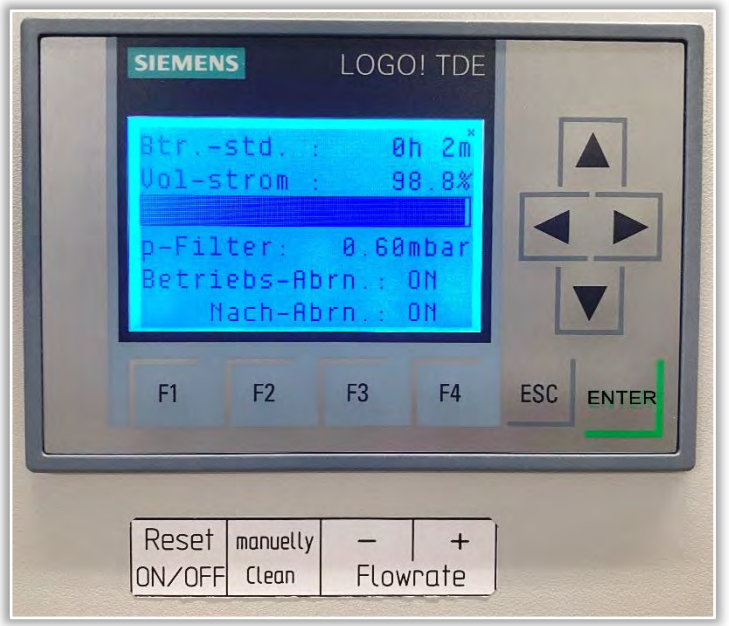
Control technology:

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

- Units parameters individually adjustable
- Suction 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 suction 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 to 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 **suction 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, cylindircal, electrically conductive
Ø 200 mm, round thread Ø 100 mm, L 50 mm
L 500 mm / 4,2 m² **054-20183**
Only with **suction connectin** 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 suction 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 suction 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 **054-70176**

Options FEX 6000.2 to FEX 6000.7

EVOTEC

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 s 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.

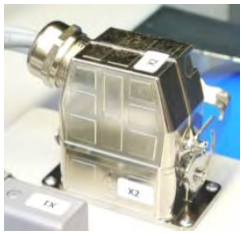
054-7501

Control technology

Signal indicator terminal, 24 V

For visual reproduction of warning and fault messages.

054-8127



10-pole plug connection

Additional seperable plug connection as communication interface.

053-0067

16-pole plug connection

Additional seperable 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**

Central extraction system – EP 2830 to EP 28110

MADE IN GERMANY

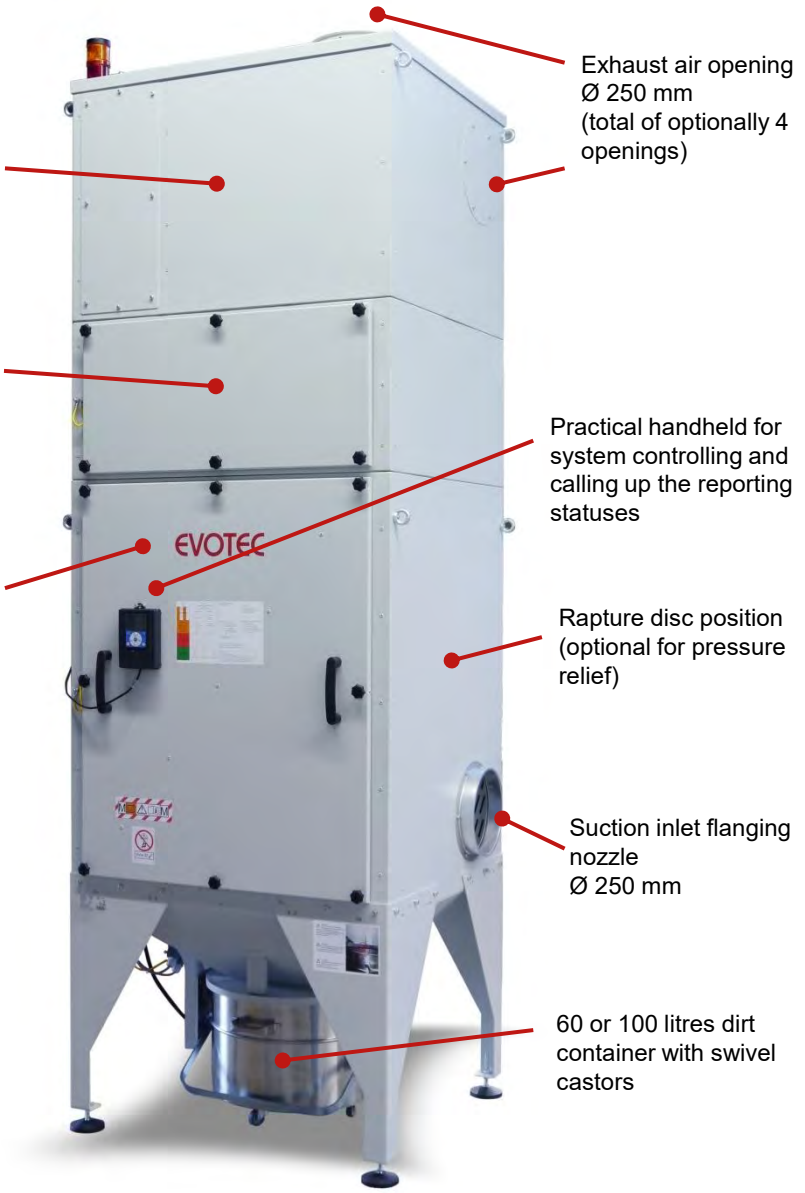
- ★ High suction power suitable for pipe systems with various openings to connect.
- ★ Automatic volume flow control (PID)
- ★ Remote ON/OFF possible
- ★ Practical handheld
- ★ Full safety equipment
- ★ Fill level monitoring of dirt tank

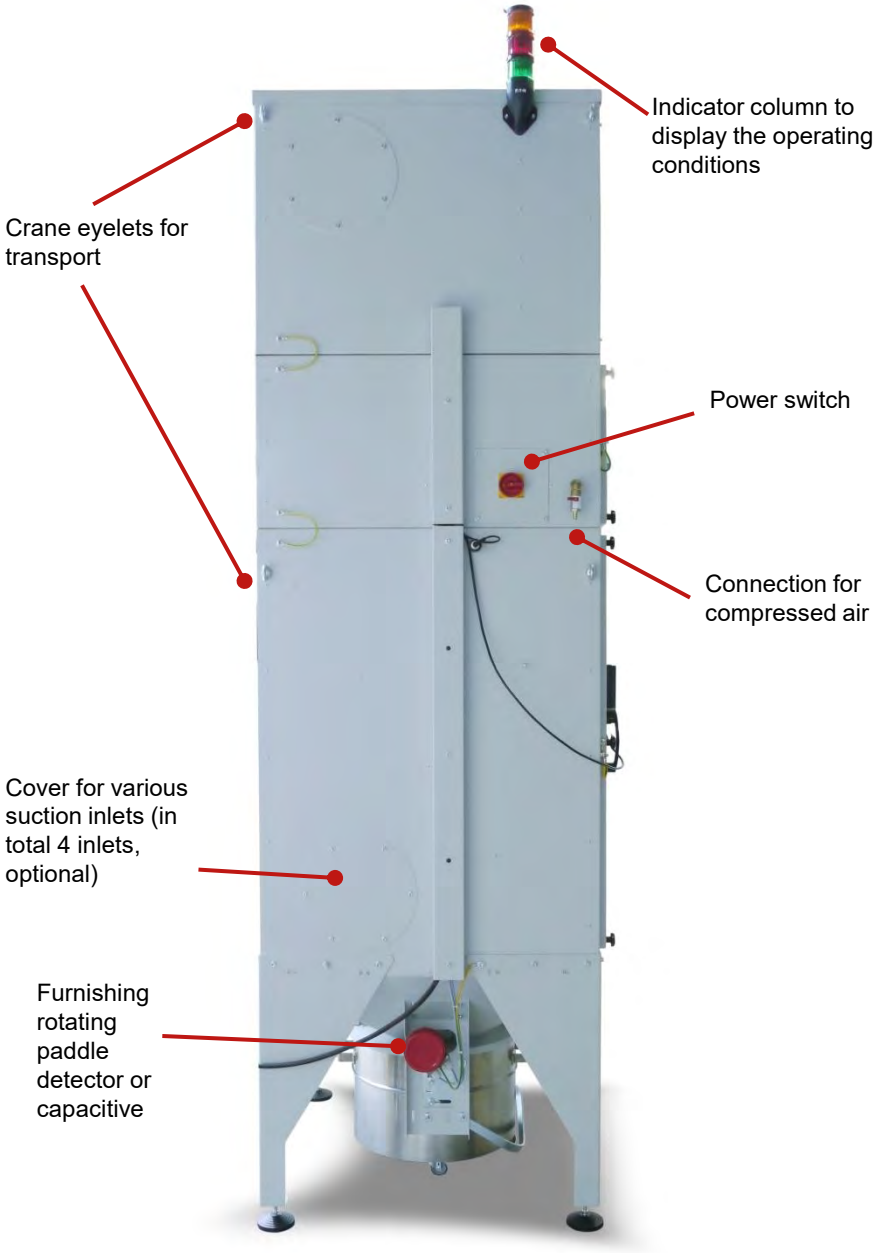
EP 2830
EP 2855
EP 2875
EP 28110

Versions:

Valid from 01.01.2022

EP 2830 to EP 2875





Powerful stationary extraction system with high air volume to collect and filter dry and hazardous dusts

Ideal to extract free flowing, dry dusts and smoke during welding, grinding, polishing, cutting materials or plastics or at transfer stations.

High quality standards – maintenance-free **IE3** medium pressure turbine suitable for **3-shift-operation**. Ideal for extraction of large air volumes to collect suspended dust – e.g. from **laser cutting.**

Comfortable container lowering of dirt container for easy disposal of the suction material.

Modern cartridge filter system: Resistant polyester filters with large filter area in **dust class M.**

Dust class H available on request.

Monitoring and display of filter status included in control side.

Automatic time controlled cartridge filter cleaning by compressed air (external compressed air connection is required). Integrated impact separator to pre-separate coarse suction material.

Upgrade EX protection: Device fully grounded as a preventive protective measure for safe use in accordance with ATEX in zone 22.

Optional additional protective measures, e.g. relief valve or rapture disc available on request.

Upgrade ESD version
- completely grounded
- ESD powder coated
- Feet/castors ESD

Energy efficient control which can be adapted to customers processes:

Volume flow control (PID)
The required air volume is determined by sensors in the system and the frequency inverter automatically controls to the appropriate negative pressure (mbar-display)
or
Speed control
The power of the unit is set to a fixed speed (Hz.-display).

Model	Volt	**EP2830-40**	**EP2830-64**	**EP2855**	**EP2875**	**EP 28110-76**
Voltage at 50/60 Hz		400				
Engine power	Watt	3.000		5.500	7.500	11.000
Max. motor current	Amp.	5,3		10,4	13,4	19,3
Max. air flow approx. *)	m³/h	3.830		6.200	7.200	9.000
Max. negative pressure	Pa	3.900		4.500	6.100	6.000
Air flow in operating condition approx. *)	m³/h	3.300	3.500	5.500	6.300	7.900
Pressure in operating condition approx. *)	Pa	3.800		4.200	5.000	6.000
Flushing gas tank	ltr.	2 x 10				
Filter area dust class „**M**“	m²	4 x 10 = 40	4 x 16 = 64			4 x 19 = 76
Dirt container	ltr.	60 - (optional 100)				100
Protection class		IP 54 (if exhaust air ist connected)				
Noise level at 50 Hz	dB(A)	68		70	72	74
Suction inlet/ exhaust air connection	Ø mm	250 mm, various inlets optional				400
Dimensions**) T x B x H	cm	98 x 102 x 285	98 x 102 x 325			142 x 102 x 360
Weight**)	kg	480	485	520	540	600
Operating temperature	°C	5 – 35				
Operating humidity	%	10 – 70 (non condensing)				
Standard version		**251-4220**	**251-4221**	**251-4240**	**251-4250**	**251-4261**
Upgrade EX protection ATEX Zone 22	**I.No.**	**054-8042**				
Upgrade ESD version electrostatically conductive	**I.No.**	**054-8044**				
Upgrade 100 dirt container	**I.No.**	**053-1095**				
Upgrade two-parted version	**I. No.**	**054-7313**				**–**
Upgrade dust class „H“ filter area 20 m²	**I. Nr.**	**054-7330**			**–**	**–**

*) **Operating** data including standard filter equipment in factory condition without further options such as spark trap, pipeline or H-upgrade, etc.
**) With regard to the standard version, varying according to equipment

EP 28110-76

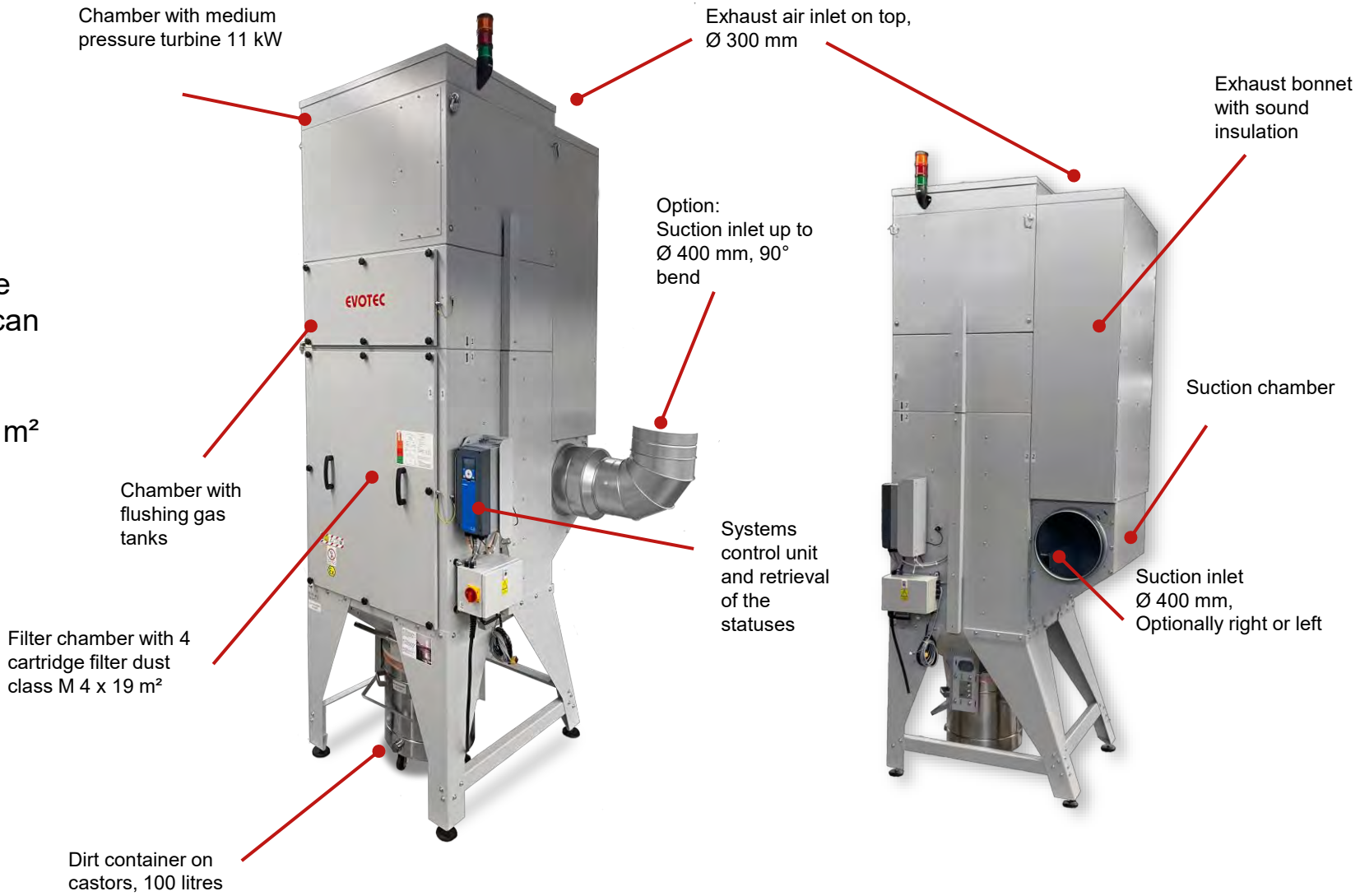
EVOTEC

NEW

EP 28110-76 with large-volume exhaust bonnet to reduce noise emission

The large suction inlet, which is ideal to handle large air volume flow, can be reduced if required.

★ Large filter area: 76 m²

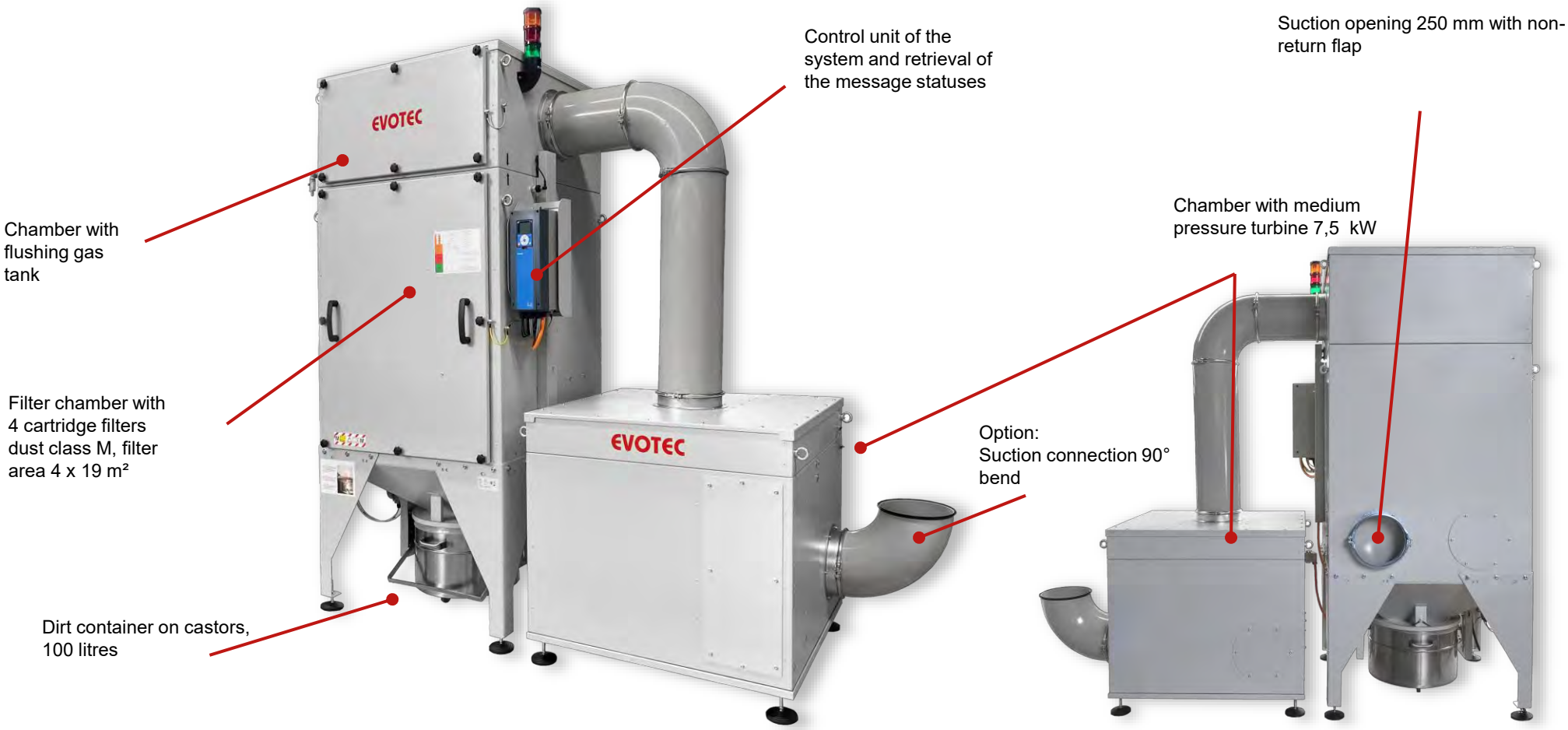


Upgrade two parted version

For the models EP2830-2875

★ Recommended for H upgrade or if ceiling height is not sufficient.

Image shows the version EP2875



EP 2830 bis EP 28110

Control technology:

Automatic volume flow control (PID)
The required air volume is determined by sensors in the system and the frequency inverter automatically regulates to the appropriate negative pressure (mbar-display)

or

Speed control regulation
The power of the unit is set to a fixed speed (Hz.-display).

Further control options

- Signal interfaces to operate message and filter message
- Remote ON/OFF
- Control of the system via practical handheld
- Signal lights and display wit status message
- Monitoring of: maximum negative pressure
- Maximum differential pressure (filter load)
- Control of cartridge filter cleaning
- Service hour counter (including maintenance notice)

Disposal:

- V2A stainless steel dirt container 60 litres
- Upgrade: 100 litres dirt container
- Dirt container with swivel castors
- Dirt container can be lowered by lever for easy disposal
- Plastic disposal bag for low contamination disposal also available in ESD quality
- Rotating paddle detector for level monitoring in the dirt container

Suitable disposal bags:
Item no. 235-1021 (60 litres)
Item no.. 235-1031 (100 litres)

EP 2830 bis EP 28110

EVOTEC

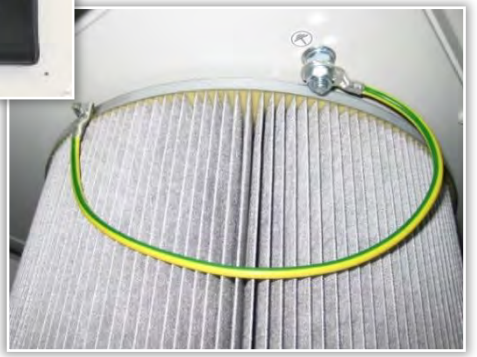
Filter technology

- Four cartridge filters d**ust class M** according to DIN EN 60335-2-69
- Filter area:
  4 x 10 m² = 40 m² (Item no. 054-20189)
  or
  4 x 16 m² = 64 m² (Item no. 054-20153)
- Pre-Coating dosing unit **optional** item no. 054-7500 pre-treatment for filter protection
- User-friendly filter change
- For zone 22 – Ex protection by earthing straps

Filter cleaning technology

- Automatic periodic compressed air filter cleaning, alternating intervals, **external compressed air is required** (5 to 8 bar)
  Maximum operating pressure 6 bar,
  Flushing gas tanks 2 x 10 litres
- Monitoring of:
  → maximum negative pressure
  → maximum differential pressure (filter load)

⚠ When used in ATEX Zone 22, no ignition sources may be sucked in.



Filters and options EP 2830 to EP 28110

Cartrdige filters EP 2830 to EP 28110

Cartridge filter– Dust class M

for 4-cartridge filter system,
polyester fleece, alu-coated, cylindircal,
electrically conductive, Ø 328 mm, for fastening on the raw gas side with tension anchor

10 m², L600mm	**054-20189**
16 m², L1000mm	**054-20153**
19 m², L1200mm	**054-20196**

PTFE cartridge filter - Dust class M

for 4-cartridge filter system,
polyester fleece, with PTFE membrane,
cylindircal,
electrically conductive, Ø 328 mm, for fastening on the raw gas side with tension anchor

10 m², L600mm	**054-20190**
16 m², L1000mm	**054-20187**
19 m², L1200 mm	**054-20197**

Set: Hepa-filter casettes H13
MDF-frame, filter class H13

610 x 610 x H260 mm	**074-20114**
610 x 610 x H292 mm	**074-20114**

Upgrade activated carbon

To adsorb odours, additional housing with device for the activated carbon module can be used up to 3,0 kW

054-7320

Options EP 2830 to EP 28110

Vibrator motor for filter dedusting

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

054-8047

Spare or replaceable container Ø 500
enables simple and quick disposal outside of site, with swivel castors

60 litres	**054-3210**
100 litres	**054-3220**

Matching lid with handles

Ø 500 mm	**054-20090**

Plastic disposal bag, antistatic ESD
VE = 10 pieces for dust-free disposal of dust classes M and H.

Extremely stable and „nail test“-tested. Perfect fit due round bottom design.

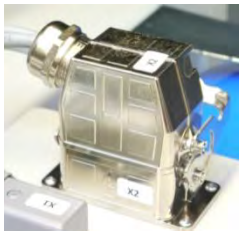
60-l-container	235-1021
100-l-container	235-1031

Technical options EP 2830 toEP 28110

Technical options EP 2830 to EP 28110

Extension electric box
is required if the relay outputs supplied as standard with the frequency inverter are not sufficient, e.g. if options such as a PreCoat dosing unit and/or potential-free remote signalling (operation, malfunction, maintenance) and/or additional sensors, etc. are added.

On request



Multi-pole plug connection
Additional separable plug connection as communication interface. (Image shows 10-pole plug connection)

10-pole	**053-0067**
16-pole	**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**

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 s 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 dispenser, containing 20 kg

054-7501

Accessories for series EP 2830 and EP 28110

EVOTEC

Device connection options

Spark trap with knitted inlay
prevents sparks from being sucked in. For integration into pipe systems. Easy handling due to quick adjustable clamping rings. Ø connection:

Ø 150 mm	**072-0630**
Ø 200 mm	**072-0638**
Ø 250 mm	**072-0639**
Ø 315 mm	**072-0643**

Matching metal knitted inlay
for spark traps

Linear metres **072-10032**
Ready wound:

Ø 150 mm	**072-0630-01**
Ø 200 mm	**072-0638-01**
Ø 250 mm	**072-0639-01**
Ø 315 mm	**072-0643-01**

Spark trap
(up unitl approx.. 1200 m³/h air volume)
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.
Connection Ø 150 mm **053-4001**

Control of exhaust air shut-off damper
suitable for shut-off dampers in the customer‘s exhaust air. Only for actuators with spring return (e.g. Belimo damper)
On request

Hoses

Exhaust air or suction hose PUR

Can be used as an exhaust air, suction hose or connecting hose, chemical resistant and food-graded, electrostatically conductive when spiral is grounded. (Image: Optionally with wire clamp and hose connection piece.)

Linear metres

Ø 80 mm	**052-0323**
Ø 100 mm	**052-0325**
Ø 120 mm	**052-0328**
Ø 125 mm	**052-0332**
Ø 150 mm	**052-0326**
Ø 160 mm	**052-0329**
Ø 200 mm	**052-0330**

Suitable hose connectors and reducers can be found in the piping catalogue.

Exhaust air or suction hose PUR, antistatic black

Can be used as an exhaust air, suction hose or connecting hose. Flow and surface resistance < 10^9 Ohm

Linear metres

Ø 80 mm	**072-10011**
Ø 100 mm	**072-10035**
Ø 120 mm	**072-10036**
Ø 125 mm	**072-10039**
Ø 150 mm	**072-10037**
Ø 160 mm	**072-10040**
Ø 200 mm	**072-10038**

Suitable hose connectors and reducers can be found in the piping catalogue.

The wide range of EVO-PRODUCTS

Catalogue Mobile Industrial Vacuum Cleaners

Ask for our other catalogues. The powerful mobile EVOTEC industrial vacuum cleaners are ideally suited for the extraction of dusts, oils, liquids and chips up to compressible media.

Pipeline catalogue

Do you need further components for the construction of a piping system? In our piping catalogue we offer a wide range of products, optimally matched to the entire EVOTEC line.

Tel.: +49 (0)2642 9373-0

E-Mail: info@evo-products.de

Explanation of the dust classes:

EU standard EN 60335-2-69 is the applicable law for the classification of the dust classes and basis for the safe removal of dusts and materials.
The health danger and explosiveness of the dusts define the needed category of use.
Furthermore the AGW-value will be considered. It defines the maximum allowable concentration on working places. As lower the AGW, as more dangerous the dust.

Dust class L:

Dusts of dust class L are considered as **„light“** dangerous so that the requirements to the vacuum cleaner are easy:
- Measurement of the air speed is not necessary
- No requirements regarding the disposal
- „Normal” requirements regarding the filtration

For all dusts with AGW > 1 mg/m³ the maximum permeability of the vacuum cleaner is allowed to be 1%.

Dust class M:

Dusts of dust class M are considered as **„medium“** dangerous. The requirements to the vacuum cleaner are:
- Measurement of the air speed
- Disposal: „low dust“
- „High“ requirements regarding the filtration

For all dusts with AGW > 0,1 mg/m³ and for wood dust.
The maximum permeability of the vacuum cleaner is allowed to be 0,1 %!

Dust class H:

Dusts of dust class H are considered as **„high“** dangerous – the requirements to the vacuum cleaner are:
- Measurement of the air speed
- Disposal: „dust free“
- „Highest“ requirements regarding the filtration

For all dusts with AGW < 0,1 mg/m³ (incl. cancer-causing dusts, dusts with germs/bacteria, asbestos*) the maximum permeability of the vacuum cleaner is allowed to be 0,005 %!
*) for asbestos, in Germany have to be fulfilled additional requirements according to TRGS519.

EX-Protection (Type22):

Explosive dusts in zone 22 do constitute different hazards – the requirements to the vacuum cleaner and its accessories are the same as listed for the dust classes L, M or H with additional Type 22. The inspection of our vacuum cleaners follows DIN EN 60335-2-69 including annexes AA und CC as well as ATEX 2014/34/EU.

Please note: All EVOTEC-machines are equipped with Type 22-suitable accessory to eliminate mistakes!

Our measures for quality assurance:

We guarantee constant highest quality.
Beside the machine guidelines there are many other legal requirements, like e.g. RoHS, REACH and PAK,
which must be considered to be allowed to carry a GS label.

All QA inspections are conducted in-house.

Terms and Conditions

§ 1

For all business relations between the company Blankenburg GmbH or the retail company Blankenburg with other business partners will these Terms and Conditions apply. Compared with this, contradictory Terms and Conditions of contractual partners shall not be taken into consideration. Its application will expressly contradicted. Silence applies in no way as consent or agreement. The following Terms and Conditions in their current version and as agreed shall apply all future business dealings and contracts without the need to expressly state this condition.

§ 2

Our offers are non-binding. Verbal agreements only become binding when they are confirmed in writing. Conclusions, changes or annulments of a contract only become binding when they are confirmed in writing. This also takes effect for understandings about the function of this written form acknowledgement.

§ 3

Unsatisfactory details about the purchaser, who can not call this for presentation, for the period of or after conclusion of contract, whenever they become known by us, authorize us optional for resignation without fixing a time limit or to call for prepay the purchase price or to provide security.

Likewise default in acceptance of the purchaser authorize us to resign the contract without fixing a time limit. The Right of Withdrawal ranges at all quantities whether or not they are taken off, but it can be limited to certain parts or quantities whose acceptance has not take place on time. After the same requirements we are able to call for damages for non-performance or displacements of additional expenditures for not taken place on time, instead of the resignation. In case of resignation the purchaser adhere for any depreciation and lost profit.

The seller only adhere the compensation, as far as he breach the contract deliberately or gross negligence.

§ 4

The term of delivery commence on the date on which we confirm the contract and the agreement about kind of execution, on condition that the arranged terms of payment will be observed on time.

Does the purchaser demand in any point another variant of the purchasing article before delivery, in this matter the running of the delivery term will be interrupted and if necessary it will be extend for a time needed to performing the different delivery. The purchaser has the right to set us a adequate final deadline, if the agreed delivery date is overstepped more than 4 weeks. If the purchasing article is not delivered until end of final deadline, the purchaser will be able to withdraw from the contract with a written notice. Prementioned deadlines can be modified with express written agreements.

Apart from that a claim of damages for non-performance or default is excluded. In case of unindebted disability of the seller such as his suppliers for performance as well as force majeure both parties have the right of withdrawal 3 months after overriding the original delivery date, without the need for advertise this.

§ 5

We reserve changes in design and form of type of construction during the delivery time, as far as the purchasing article itself and its look have not changed radically.
Data of the descriptions about power output, weight and costs of operation shall be considered approximated.

§ 6

Pending payment in full (on payment with cheque or bill of exchange until their redemption) of all receivables and future receivables, the goods supplied remain the property of us.
Goods that are still our property must not be sell, bond, rent out or lend by the purchaser. He is liable for losing and all damages even if it is not his fault.
If we make use of our right to return, a cancellation of the contract will be only present when it is state expressively in written by us. In this case we are authorized to calculate an amount that is adequate to our expenditures and depreciations. If goods that are still our property are bonded or owned by a third party, we are to inform about this situation in written form and all documents of the purchaser (for example protocol of attachment) are to send to us directly. The purchaser is responsible to point out our property. All costs that arise for repelling our access will be paid by the purchaser.

§ 7

An objection must happen directly in written form or within a week after receipt of goods at the latest. Anyway it must be addressed to us and not to our representative. If the notice of defects is valid, the purchaser will have the right to reclaim depreciation, but no conversion and no restitution of a damage. We are authorized to repair or to avoid the right for depreciation with replacements. Ulterior claims of the purchaser which includes loss of duty etc., are excluded.
Our guarantee amounts to 12 months until transfer of risk.
Notice of defects do not absolve the purchaser from compliance of the agreed payment. Our responsibility for defects expires by delayed payment of the purchaser.

§ 8

The place of performance for all claims is Remagen at the Rhine, Germany. Place of jurisdiction is Koblenz, Germany. These Terms and Conditions and the german law applies also to all business dealings made outside Germany. The use of international provisions of law is excluded.

§ 9

Our invoices are payable in cash without deduction 30 days after invoice date, as far as none other date is agreed. Payment within 8 days after invoice date offers 2 % cash discount. Deduction of the cash discount expects that all previous deliveries to the same purchaser are paid. Payments are only acceptable when they are achieved to us. Our field worker is authorized to accept payment only with special statement. Offsettings, lowering and enforcement of a right of retention are excluded to our payment claim. Default of our terms of payment absolves us from further delivery obligations, but not the purchaser from his acceptance obligation. We are authorized to make the delivery promises condition on previous payments and always to cancel commitments to lend.

Bills of exchange and cheques are only accepted in exceptional circumstances and special agreements. Discount charges and all other expenses involved are the responsibility of the purchaser. Because of a possible bailment or default of the exchange template or protesting, no rights or objections may be claimed against us.
When missing the payment date the consequences of default eventuates without the need for a reminder. The purchaser has to pay default charges of 14 % for the default period. The exercise of another defect will remain unaffected.

§ 10

Should single regulations of the Terms and Conditions be ineffective, the effectiveness of any other condition will not be touched through this.

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