



o.P.



EVOTEC Product range 2018/19





Our vacuumcleaners – your advantage:

- Top quality – professional manufacturing
- Heavy duty and long-living materials
- convincing functionality and ergonomics
- Unexpected new solutions
- Flexible and economical in use
- Reliability from more than 30 years experience
- High aspiration in design and operator convenience



This label represents inspected safety-
Certificates prove the successful inspection.

Health protection and occupational safety with:



**EX-proof vacuum cleaners for zone
1, 2, 21 und 22**

Content

	<u>from page</u>	Dirt- container	Longopac	230 V	400 V	Liquids	Dust class M	Dust class H	Asbestos	EX/Protection Zone 22
<u>Mobile industrial vacuum cleaner</u>										
ECODust 1200 / 1500 / 2400	4	25		x			x	x	x	
ECODust Maxi 15	6	35		x			x	x		x
EP 1122 / EP 1122-LP	8	35	x	x			x	x		
EP 1136	10	60		x			x	x		
EP 2122 ECO / EP 2130 ECO	12	60			x		x	x		x
EP 1115 / EP 2115 / EP 2122-35	14	35		x	x		x	x	x	x
EP 2122 / EP 2130 / EP 2140 ECO / EP 2155 ECO	16	60	x		x		x	x		x
EP 2140 / EP 2155 / EP 2175 ECO	18	100	x		x		x	x		x
EP 2175 / EP 21130	20	100			x		x	x		x
Robusto 1122	22	35		x			x	x	x	x
Robusto 2115 / 2122 / 2130	22	35			x		x	x	x	x
Robusto 2155 / 2175	22	100			x		x	x	x	x
Robusto 1122-LP	22		x	x			x	x	x	x
Robusto 2115-LP / 2122-LP / 2130-LP	22		x		x		x	x	x	x
Robusto 2155-LP / 2175-LP	24		x		x		x	x	x	x
EP 1036 / EP 1024 Pump	26	120		x		x				
EP 1236-140 / EP 1236-100 (Swarf-liquid vacuum cleaner)	28	140		x		x				
EP 1236 (Späne)	30	145		x		x				
EP 2230 / EP 2240 / EP 2255 (Swarf-liquid vacuum cleaner)	30	145			x	x				
EP 2122 ECO WB (Liquid bath vacuum cleaners)	32	100			x	x	x	x		x
EP 312-60 compressed air	34	60					x	x		Zone 21 + 22 Zone 1 + 2
EP 302-120 compressed air	36	120				x				Zone 21 + 22 Zone 1 + 2
EP 2330 / EP 2340 (compression)	38	145			x		x			
EPS 1115 / EPS 2122 / EPS 2130 / EPS 2140 (SuperSilent)	40		x		x		x	x		x
<u>Stationary extraction systems (deduster)</u>									activated carbon	
FEX 1000 / FEX 2000	62	Memory Filter		x			x	x	x	x
FEX 3000	66	Memory Filter		x			x	x	x	x
EP 2815 / EP 2822 (Central suction)	70	35			x		x	x	x	x
EP 2830 / EP 2855 / EP 2875 / EP 28110 (Central suction)	76	60 / 100			x		x		x	x
EP 2701 / EP 2702 / EP 2703 (Central suction)	82	LP / 60 / 100	x		x		x	x		x
EP 1415 / EP 2415 / EP 2422 (Mounting suction)	88	30		x	x		x			x
Accessories EVOTEC	42	Filter	pre- separator	Suction arm	Suction hose	Clutches	Nozzle	Control	Disposal	Sets
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ECODust – Dry vacuum cleaner – 230 Volt

EVOTEC



- Compact construction, large fixed castors for stage climbing
- Comfortable lowering of the dirt container
- ECODust 1200:
TRGS 519 certified for activities involving **Asbestos**
- ECODust 1500:
Turbine for **continuous operation** an EX-proof Type22



Motor head ECODust 1500

ECODust 1200
ECODust 1500
ECODust 2400

1.200 to 2.400 watt
230 volt
210 mbar
165 to 330 m³/h
25 liter container

Available in versions:



High performance industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well constructed bypass aggregates, silenced turbo.

Sturdy, smooth running chassis for high mobility. Compact modular structure with high-quality stainless steel dirt container (**V2A**).

Cyclone separator for better pre-separating of fine dust particle and coarse matter

1st level filter:
Dust class M

Durable polyester needle-felt filter with **PUR-membrane**, high filter effect for long durability.

Included in delivery:

3,5 m suction hose Ø 40 mm und crevice nozzle

2nd level filter:
Dust class H
“Absolut”-cartridge filter (**H14**).



Effective, easy to use **filter cleaning** for high filter effect and long operating intervals without interruption.

Vacuum gauge for filter monitoring.

Patented, tool less filter change – easy and safe for staff and maintenance.

ASBESTOS-construction
GS-certified according to **TRGS519** for the suction of carcinogenic Asbestos-dusts.

Length of the connection cable:
8 m

Type		ECODust 1200	ECODust 1500	ECODust 2400
Voltage	volt	230	230	230
Power output	watt	1.200	1.500	2.400
Max. air flow rate	m³/h	165	220	330
Max. negative pressure	mbar	210	200 / 240 max.	210
Filter surface „M“	m²	1,00	1,00	1,00
Filter surface „H“ (H14)	m²	+ 1,7	+ 1,7	+ 1,7
Dirt container	l	25	25	25
Type of protection		IP X4	IP55	IP X33
Noise level	dB(A)	74	72	78
Suction connection	Ø mm	60	60	60
Dimension	cm	48x48x105	48 x 56 x 138	48x48x105
Weight	kg	25	49	25
Dust class M	Art.-No.	151-3020	151-3040	151-3030
Dust class M/Typ22 	Art.-No.	--	151-3041	--
Dust class H	Art.-No.	151-3021	151-3042	151-3031
Dust class H/Asbest	Art.-No.	151-3022	--	--
Dust class H/Typ22 	Art.-No.	--	151-3043	--



Dry vacuum cleaner – 230 Volt



- Side channel blower for **permanent operation** and EX-protection Type22
- Compact construction
- Large fixed castors for stage climbing
- Comfortable lowering of the dirt container

EVOTEC

ECODust Maxi 15

1.500 watt
230 volt
200 mbar
220 m³/h
35 liter container

Available in versions:



High performance industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

Well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Sturdy, smooth-running chassis for high mobility. Compact, modular structure with high-quality stainless steel dirt container (**V2A**).

Cyclone separator for better pre-separation of fine dust particles and coarse matter.

1st level filter:

Dust class M

Durable polyester needle-felt filter with **PUR-membrane**, high filter effect for long durability.

Included in delivery:

3,5 m suction hose Ø 40 mm and crevice nozzle.

2nd level filter:

Dust class H

“Absolut”-cartridge filter (**H14**).



Effective, easy to use **filter cleaning** for high filter effect and long operating intervals without interruption.

Vacuum gauge for filter monitoring.

Patented, tool less filter change – easy and safe for staff and maintenance.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Type		ECODust Maxi 15
Voltage	volt	230
Power output	watt	1.500
Max. airflow rate	m³/h	220
Max. negative pressure	mbar	200 / 240 max.
Filter surface „M“ Filter surface „H“	m² m²	1,75 + 1,7
Dirt container	l	35
Type of protection		IP55
Noise level	dB(A)	72
Suction connection	Ø mm	80
Dimension	cm	71 x 58 x 160
Weight	kg	40
Dust class M	Art.-No.	151-1070
Dust class M/Type22 	Art.-No.	151-1071
Dust class H	Art.-No.	151-1072
Dust class H/Type22 	Art.-No.	151-1073



Dry vacuum cleaner – 230 Volt

EVOTEC

EP 1122 EP 1122-LP

2.400 watt
230 volt
210 mbar
330 m³/h
35 liter container

Available in versions:



- Compact construction
- Electrical socket for power tools
- Optimum filter technology for secured suction
- Available in Longopac-Disposal-Version



High performance industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well constructed bypass aggregates, silenced turbo.

Sturdy, smooth running chassis for high mobility. Compact modular structure with high-quality stainless steel dirt container (**V2A**).

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

1st level filter:
Dust class M

Durable polyester needle-felt filter with **PUR-membrane**, high filter effect for long durability.

2nd level filter:
Dust class H
“Absolut”-cartridge filter (**H14**).

Effective, easy to use **filter cleaning** for high filter effect and long operating intervals without interruption.

Vacuum gauge for filter monitoring.

Patented, tool less filter change – easy and safe for staff and maintenance.

Longopac Disposal System:

"Endless" plastic bag for easy and contamination-free disposal of the suction material.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Included in delivery:

3,5 m suction hose Ø 40 mm and crevice nozzle.



Type		EP 1122	EP 1122-LP
Voltage	volt	230	230
Power output	watt	2.400	2.400
Max. airflow rate	m³/h	330	330
Max. negative pressure	mbar	210	210
Filter surface „M“ Filter surface „H“	m² m²	1,75 + 1,7	1,75 + 1,7
Dirt container	l	35	Longopac
Type of protection		IP 33	IP 33
Noise level	dB(A)	76	76
Suction connection	Ø mm	80	80
Dimension	cm	71 x 58 x 119	71 x 58 x 149
Weight	kg	50	50
Dust class M	Art.-No.	151-1064	151-1066
Dust class H	Art.-No.	151-1065	151-1067



Dry vacuum cleaner – 230 Volt

EVOTEC



- Optimum filter technology for secured suction
- Strong suction performance
- Comfortable lowering of the dirt container
- Usage of two hoses possible with Y-Allocator
- All parts coming in contact with the product are made from stainless steel (1.4301)

EP 1136

3.600 watt
230 volt
210 mbar
490 m³/h
60 Liter Container

Available in versions:



Video on
You Tube

High performance industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well constructed bypass aggregates, silenced turbo.

Sturdy, smooth running chassis for high mobility. Compact modular structure with high-quality stainless steel dirt container (**V2A**).

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

1st level filter:
Dust class M

Durable polyester needle-felt filter with **PUR-membrane**, high filter effect for long durability.

2nd level filter:
Dust class H
“Absolut”-cartridge filter (**H14**).

Effective, easy to use **filter cleaning** for high filter effect and long operating intervals without interruption.

Vacuum gauge for filter monitoring.

Patented, tool less filter change – easy and safe for staff and maintenance.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Included in delivery:

3,5 m suction hose Ø 40 mm and crevice nozzle.



Type		EP 1136
Voltage	volt	230
Power output	watt	3.600
Max. airflow rate	m³/h	490
Max. negative pressure	mbar	210
Filter surface „M“ Filter surface „H“	m² m²	2,2 + 2,0
Dirt container	l	60
Type of protection		IP 33
Noise level	dB(A)	78
Suction connection	Ø mm	80
Dimension	cm	86 x 68 x 138
Weight	kg	75
Dust class M	Art.-No.	151-1080
Dust class H	Art.-No.	151-1081



Dry vacuum cleaner – 400 Volt



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Side channel blower for permanent operation and EX-protection Type22
- Complete safety related equipment
- Strong suction performance
- Comfortable lowering of the dirt container

EVOTEC

EP 2122 ECO
EP 2130 ECO

2.200 to 3.000 watt
400 volt
240 to 340 mbar
330 m³/h
60 liter container

Available in versions:



Robust industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

2nd level filter:



“Absolut”- cartridge filter dust class **H (H14)**.

Patented, tool less **filter change** with **low contamination risk**.

Phase direction monitor and vacuum limit valve for the **faultless use of the device**.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Type		EP 2122 ECO	EP 2130 ECO
Voltage	volt	400	400
Power output	watt	2.200	3.000
Max. airflow rate	m³/h	330	330
Max. negative pressure	mbar	240 / 300 max.	260 / 340 max.
Filter surface „M“	m²	2,2	2,2
Filter surface „H“	m²	+ 2,0	+ 2,0
Dirt container	l	60	60
Type of protection		IP 55	IP 55
Noise level	dB(A)	70	70
Suction connection	Ø mm	80	80
Dimension	cm	83 x 68 x 165	83 x 68 x 165
Weight	kg	95	100
Dust class M	Art.-No.	251-1020	251-1030
Dust class M/Type 22 	Art.-No.	251-1021	251-1031
Dust class H	Art.-No.	251-1022	251-1032
Dust class H/Type 22 	Art.-No.	251-1023	251-1033

Included in delivery:

3,5 m suction hose Ø 40 mm and crevice nozzle.



Dry vacuum cleaner – 230/400 Volt

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Side channel blower for permanent operation and EX-protection
- **TRGS 519** certified for activities involving **Asbestos**
- Complete safety related equipment
- Very silent

EP 1115
EP 2115
EP 2122-35

1.500 to 2.200 watt
230 or 400 volt
200 to 300 mbar
220 to 330 m³/h
35 liter container

Available in types:



Robust industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

Included in delivery: 3,5 m suction hose and crevice nozzle Ø 40 mm for EP 1115 and 2115 / Ø 50 mm for EP 2122-35

2nd level filter:

“Absolut”- cartridge filter dust class **H (H14)**.



Patented, tool less **filter change** with **low contamination risk**.

Phase direction monitor and vacuum limit valve for the **faultless use of the device**.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Type **ASBESTOS** including 5,0 m exhaust air hose Ø 70 mm

Type		EP 1115	EP 2115	EP 2122-35
Voltage	volt	230	400	400
Power output	watt	1.500	1.500	2.200
Max. airflow rate	m³/h	220	220	330
Max. negative pressure	mbar	200 / 240 max.	200 / 240 max.	240 / 300 max.
Filter surface „M“ Filter surface „H“	m² m²	1,75 + 1,7	1,75 + 1,7	1,75 + 1,7
Dirt container	l	35	35	35
Type of protection		IP 55	IP 55	IP 55
Noise level	dB(A)	65	68	70
Suction connection	Ø mm	80	80	80
Dimension	cm	119x58x122	119x58x122	119x58x122
Weight	kg	105	105	105
Dust class M	Art.-No.	151-1050	251-2070	251-1010
Dust class M /Type22 	Art.-No.	151-1051	251-2071	251-1011
Dust class H	Art.-No.	151-1052	251-2072	251-1012
Dust class H /Type22 	Art.-No.	151-1053	251-2073	251-1013
Dust class H / Asbestos	Art.-No.	-- --	-- --	251-1015



Dry vacuum cleaner – 400 Volt

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Side channel blower for permanent operation and EX-protection Type22
- Complete safety related equipment
- Comfortable lowering of the dirt container
- Also available with Longopac-disposal-system

from 4.0 kW:

to 3.0 kW:



EP 2122
EP 2130
EP 2140 ECO
EP 2155 ECO

2.200 to 5.500 watt
400 volt
240 to 340 mbar
330 to 500 m³/h
60 liter container

Available in types:



Robust industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

Included in delivery:

3,5 m suction hose Ø 50 mm and crevice nozzle.

2nd level filter:

“Absolut”- cartridge filter dust class **H (H14)**.

Patented, tool less **filter change** with **low contamination risk**.



Phase direction monitor and vacuum limit valve for the **faultless use of the device**.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

On request with Longopac Disposal System: "Endless"

plastic bag for easy and contamination-free disposal of the suction material

Type		EP 2122	EP 2130	EP 2140 ECO	EP 2155 ECO
Voltage	volt	400	400	400	400
Power output	watt	2.200	3.000	4.000	5.500
Max. airflow rate	m³/h	330	330	410	500
Max. negative pressure	mbar	240 / 300 max.	260 / 340 max.	240 / 300 max.	260 / 320 max.
Filter surface „M“ Filter surface „H“	m² m²	2,2 or 3,2 + 2,0	2,2 or 3,2 + 2,0	3,2 + 4,3	3,2 + 4,3
Dirt container	l	60	60	60	60
Type of protection		IP 55	IP 55	IP 55	IP 55
Noise level	dB(A)	70	70	76	76
Suction connection	Ø mm	80	80	80	80
Dimension	cm	120x68x135	120x68x135	120x68x135	120x68x135
Weight	kg	150	160	180	190
Dust class M	Art.-No.	251-1040	251-1050	251-1060	251-1070
Dust cl. M/Type22 	Art.-No.	251-1041	251-1051	251-1061	251-1071
Dust class H	Art.-No.	251-1042	251-1052	251-1062	251-1072
Dust cl. H/Typ22 	Art.-No.	251-1043	251-1053	251-1063	251-1073



Dry vacuum cleaner – 400 Volt



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Complete safety related equipment
- Strong suction performance, suitable for the use on pipe systems
- Comfortable lowering of the dirt container
- Also available with Longopac-disposal-system
- From 5,5 kW with star-delta protection combination

EVOTEC

EP 2140
EP 2155
EP 2175 ECO

4.000 to 7.500 watt
400 volt
240 to 380 mbar
500 to 510 m³/h
100 Liter container

Available in versions:



Robust industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

2nd level filter:

“Absolut”- cartridge filter dust class **H (H14)**.

Patented, tool less **filter change** with **low contamination risk**.

Phase direction monitor and vacuum limit valve for the **faultless use of the device**.



Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

On request with Longopac Disposal System: "Endless"

plastic bag for easy and contamination-free disposal of the suction material



Type		EP 2140	EP 2155	EP 2175 ECO
Voltage	volt	400	400	400
Power output	watt	4.000	5.500	7.500
Max. airflow rate	m³/h	500	510	700
Max. negative pressure	mbar	240 / 280 max.	320 / 360 max.	260 / 320 max.
Filter surface „M“	m²	3,2	3,2	3,2
Filter surface „H“	m²	+ 4,3	+ 4,3	+ 4,3
Dirt container	l	100	100	100
Type of protection		IP 55	IP 55	IP 55
Noise level	dB(A)	76	76	78
Suction connection	Ø mm	80	80	80
Dimension	cm	148 x 68 x 156	148 x 68 x 156	148 x 68 x 156
Weight	kg	190	200	210
Dust class M	Art.-No.	251-1080	251-1090	251-3000
Dust cl. M/Type22 	Art.-No.	251-1081	251-1091	251-3001
Dust class H	Art.-No.	251-1082	251-1092	251-3002
Dust cl. H/Type22 	Art.-No.	251-1083	251-1093	251-3003

For types EP 2140 and EP 2155 included in delivery:

5,0 m suction hose Ø 50 mm and crevice nozzle

(EP 2175 ECO without hose)



Dry vacuum cleaner – 400 Volt



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Side channel blower for permanent operation and EX-protection Type22
- Complete safety related equipment
- Extra strong suction performance, suitable for the use on pipe systems
- Comfortable lowering of the dirt container

EVOTEC

EP 2175
EP 21130

7.500 to 12.500 watt
400 volt
510 to 1100 m³/h
340 to 420 mbar
100 liter container

Available in types:



High performance industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

2nd level filter:



“Absolut”- cartridge filter dust class **H (H14)**.

Patented, tool less **filter change** with **low contamination risk**.

Phase direction monitor and vacuum limit valve for the **faultless use of the device**.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose.

Length of the connection cable: 8 m

Type		EP 2175	EP 21130
Voltage	volt	400	400
Power output	watt	7.500	12.500
Max. airflow rate	m³/h	700	1.100
Max. negative pressure	mbar	260 / 320 max.	360 / 420 max.
Filter surface „M“ Filter surface „H“	m² m²	5,2 + 4,3	5,2 + 4,3
Dirt container	l	100	100
Type of protection		IP 55	IP 55
Noise level	dB(A)	78	78
Suction connection	Ø mm	80	150
Dimension	cm	148 x 68 x 187	148 x 68 x 187
Weight	kg	340	350
Dust class M	Art.-No.	251-2000	251-2010
Dust class M/Type22 	Art.-No.	251-2001	251-2011
Dust class H	Art.-No.	251-2002	251-2012
Dust class H/Type22 	Art.-No.	251-2003	251-2013

Suction hose and further accessory optionally available.



ROBUSTO – 400 Volt



- Crane-eyelets for easy transport
- Large fixed castors for rough terrain
- Comfortable lowering of the dirt container for easy disposal
- Extra strong chassis
- **TRGS 519** certified versions for activities involving **Asbestos** available

to 3,0 kW:



from 4,0 kW:



EVOTEC

ROBUSTO 1122
ROBUSTO 2130
ROBUSTO 2155
ROBUSTO 2175

1.500 to 7.500 watt
230 or 400 volt
200 to 380 mbar
220 to 510 m³/h

Standard version:



As Upgrade:



Robust industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (μm)

High quality standards –

well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**. Can also be used on pipe systems or with very long hoses.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

Patented, tool less **filter change** with **low contamination risk**.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.





Length of the connection cable: 8 m

Type **ASBESTOS** including 5,0 m exhaust air hose Ø 70 mm.

Upgrade: Dust class H

2nd level filter: absolut filter cartridge dust class **H (H14)**

Upgrade: GS and EX (Type22) Phase direction monitor and vacuum limit valve for the **faultless use of the device**.

Modell		ROBUSTO 1122	ROBUSTO 2115	ROBUSTO 2122	ROBUSTO 2130	ROBUSTO 2155	ROBUSTO 2175
Voltage	Volt	230	400	400	400	400	400
Power output	watt	2.200	1.500	2.200	3.000	5.500	7.500
Max. airflow rate	m³/h	310	220	330	330	480	700
Max. negative pressure	mbar	220 / 260 max.	200 / 240 max.	240 / 340 max.	240 / 340 max.	260 / 340 max.	260 / 320 max.
Filter surface „M“ Filter surface „H“ (H14)	m² m²	1,75 + 1,7	1,75 + 1,7	1,75 + 1,7	1,75 + 1,7	3,2 + 4,3	3,2 + 4,3
Dirt container	ltr.	35	35	35	35	100	100
Type of protection		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
Noise level	dB(A)	76	76	76	77	78	78
Suction connection	Ø mm	80	80	80	80	80	80
Dimension	cm	94 x 60 x 120h	94 x 60 x 120h	94 x 60 x 120h	94 x 60 x 120h	110 x 68 x 152h	110 x 68 x 152h
Weight	kg	143	143	151	153	198	218
Dust class M	Art.-No.	151-3050	251-4135	251-4136	251-4140	251-4170	251-4190
Upgrade Dust class H	Art.-No.	054-20018	054-20018	054-20018	054-20018	054-20033	054-20033
Upgrade 	Art.-No.	--	054-6435	054-6435	054-6435	054-6455	054-6455
Upgrade  + 	Art.-No.	a.A.	054-6433	054-6433	054-6433	054-6453	054-6453
Dust class H/ Asbestos including 	Art.-No.	a.A.	251-4091	251-4104	251-4111	251-4121	251-4131

Up to 5.5 kW included in delivery: 3.5 m suction hose Ø 50 mm and scoring nozzle



Robusto – LP – 400 Volt

EVOTEC



Fig.: Version Asbestos

- Crane-eyelets for easy transport
- Large fixed castors for rough terrain
- Longopac-System for dust free disposal
- Filter chamber lift space-saving transport
- Extra strong chassis
- **TRGS 519** certified versions for activities involving **Asbestos** available

from 4,0 kW:

to 3,0 kW:



ROBUSTO 1122-LP
ROBUSTO 2130-LP
ROBUSTO 2155-LP
ROBUSTO 2175-LP

1.500 to 7.500 watt
230 or 400 volt
200 to 380 mbar
220 to 510 m³/h

Standard version:



As Upgrade:



Robust industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (μm)

High quality standards –

well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**. Can also be used on pipe systems or with very long hoses.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

1st level filter (standard):

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

Patented, tool less **filter change** with **low contamination risk**.

Longopac Disposal System: "Endless" plastic bag for easy and contamination-free disposal of the suction material

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.





Length of the connection cable: 8 m

Type **ASBESTOS** including 5,0 m exhaust air hose Ø 70 mm.

Upgrade: Dust class H

2nd level filter: absolut filter cartridge dust class **H (H14)**

Upgrade: GS and EX (Type22) Phase direction monitor and vacuum limit valve for the **faultless use of the device**.

Modell		ROBUSTO 1122-LP	ROBUSTO 2115-LP	ROBUSTO 2122-LP	ROBUSTO 2130-LP	ROBUSTO 2155-LP	ROBUSTO 2175-LP
Voltage	Volt	230	400	400	400	400	400
Power output	Watt	2.200	1.500	2.200	3.000	5.500	7.500
Max. airflow rate	m ³ /h	310	220	330	330	480	700
Max. negative pressure	mbar	220 / 260 max.	200 / 240 max.	240 / 340 max.	240 / 340 max.	260 / 340 max.	260 / 320 max.
Filter surface „M“	m ²	1,75	1,75	1,75	1,75	3,2	3,2
Filter surface „H“ (H14)	m ²	+ 1,7	+ 1,7	+ 1,7	+ 1,7	+ 4,3	+ 4,3
Dirt container	ltr.	Longopac	35	35	Longopac	Longopac	Longopac
Type of protection		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
Noise level	dB(A)	76	76	76	77	78	78
Suction connection	Ø mm	80	80	80	80	80	80
Dimension	cm	94 x 60 x 163h	94 x 60 x 120h	94 x 60 x 120h	94 x 60 x 163h	110 x 68 x 173h	110 x 68 x 173h
Weight	kg	140	140	148	150	195	215
Dust class M	Art.-No.	151-3060	251-4133	251-4134	251-4150	251-4180	251-4200
Upgrade Dust class H	Art.-No.	054-20018	054-20018	054-20018	054-20018	054-20033	054-20033
Upgrade 	Art.-No.	054-6435	054-6435	054-6435	054-6435	054-6455	054-6455
Upgrade  	Art.-No.		054-6433	054-6433	054-6433	054-6453	054-6453
Dust class H/Asbestos including 	Art.-No.		251-4093	251-4103	251-4113	251-4123	251-4133

Up to 5.5 kW included in delivery: 3.5 m suction hose Ø 50 mm and scoring nozzle



Wet- Dry- or Pump vacuum cleaner – 230 Volt

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Strong suction performance
- Tipper chassis for easy emptying
- EP 1024 Pump:
Built-in 900W-Pump
- EP 1036:
Electronic fill level sensor
- Three filter cartridges with automatic filter cleaning (EP 1036)

EP 1036

3.600 watt/230 volt
490 m³/h
210 mbar
120 l container
Filter cartridges
Dump hose

Available in type:



EP 1024 Pump

2400 watt/230 volt
330 m³/h
210 mbar
120 l container
900 watt pump

EP 1036**Powerful wet and dry vacuum cleaner****Wet:**

Innovative **electronic fill level sensor** (patented), shutting down the engine when the liquid reaches the highest level.

Dry:

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

Three filter cartridges with **automatic dedusting**.

Tipper chassis for easy disposal of the absorbed matter.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Included in delivery:

1,0 m dump hose and
3,5 m suction hose Ø 50 mm,
crevice nozzle

EP 1024**Powerful Pump vacuum cleaner**

With fix installed stainless steel immersion pump (900W) for **continued absorbing of liquids and simultaneously pumping further** in one operation.

Including PRCDS-safety switch

Pump output: 280 l/min – not suitable for dry matter.

Optional: Equipped with Stortz-C-coupling and wastewater hose 15m.

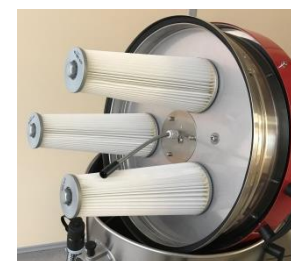
Sturdy, smooth-running chassis for **high mobility**. Compact, modular structure with high-quality stainless steel dirt container **(V2A)**.

Length of the connection cable: 8 m

Type		EP 1036	EP 1024 Pump
Voltage	volt	230	230
Power output	watt	3.600	2.400
Pump power	watt	--	900
Max. air flow rate	m³/h	490	330
Max. neg. pressure	mbar	210	210
Filter surface	m²	1,5	--
Dirt container	l	120	120
Type of protection		IP 33	IP 33
Sound pressure level	dB(A)	78	78
Suction connection	Ø mm	80	80
Dimension	cm	50x65x105	50x65x105
Weight	kg	68	70
Dust class M	Art.-No.	151-1042	151-1030

Included in delivery:

3,5 m suction hose Ø 50 mm and crevice nozzle.



Swarf - liquid vacuum cleaner – 230 Volt

EVOTEC



Fig.: 1236-100

- All parts coming in contact with the product are made from stainless steel (1.4301)
- Strong suction performance
- Motor head with single switchable motors
- EP 1236-100:
lowerable
100 l dirt container
- EP 1236-140:
tiltable 140 l dirt container

EP 1236-140

EP 1236-100

EP 1236-100

Sensor

3.600 watt/230 volt
490 m³/h
210 mbar

360° suction
connection
Swarf-separating
base or swarf-basket
Visual fill level
control via dump
hose

Available in type:



Powerful industrial vacuum cleaners for the suction of swarf.

For the **suction and separate disposal** of solid material / swarf and liquids / emulsions.

Dirt container with integrated **swarf-separating base or swarf basket**.

Swarf stay on the separating base (or in the swarf basket), liquids can be disposed separately via the dump hose.

Electronic fill-level monitor or visual monitoring via the dump hose.

360° pivotable intake with Kamlock-coupling.

Applies for all types :

Sturdy and smooth-running chassis for **high mobility**.

Compact, modular structure with high-quality stainless steel dirt container (**V2A**).

Liquid repellent cartridge filter avoids the sucking of oil mist or dust.

Length of the connection cable: 8 m



Fig.: 1236-140



Modell		EP 1236-140	EP 1236-100
Voltage	Volt	230	230
Power output	Watt	3.600	3.600
Max. airflow rate	m³/h	490	490
Max. negative pressure	mbar	210	210
Filtersurface	m²	1,0	1,0
Dirt container	ltr.	140	100
Swarf basket	ltr.	60	separating plate
Fill level control	type	electronical	optical
Type of protection		IP 33	IP 33
Noise level	dB(A)	78	78
Suction connection	Ø mm	Kamlock - 50	Kamlock – 50
Dimensions	cm	50x65x105	75 x 65 x 131
Weight	kg	80	70
Standard model (fill level visual)	Art.-Nr.	151-2010	151-3000
Version with sensor (level control electronical)	Art.-No.	151-2011	151-3001

Included in delivery:

3,5 m suction hose Ø 50 mm and crevice nozzle



Swarf-liquid vacuum cleaner – pressure emptying

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Complete safety related equipment
- Strong suction performance
- Separate disposal of swarf and liquids
- Comfortable emptying via separate dump hose.

EP 1236

EP 2230

EP 2240

EP 2255

3.000 to 5.500 watt
230 or 400 volt
330 to 510 m³/h
210 to 320 mbar
145 l container

Pressure emptying
Swarf basket
Dump hose
Automatic
fill level control

Available in type:



Powerful industrial vacuum cleaners for the suction of swarf.

For the **suction and separate disposal** of solid material / swarf and liquids / emulsions.

Comfortable evacuation via dump hose with ball valve (no pump).

Thrust reversal presses the liquid out and separates leftovers of liquids from the swarf.

Coolants can be recycled. The swarf basket is easy to reach.

Includes oil resistant dump hose, length 2m, with ball valve for pressure emptying.

Innovative **electronic fill-level sensor (patented)** shuts down the engine when the liquid reaches maximum level.

Applies for all types:

Sturdy, smooth running chassis for high mobility. Compact modular structure with high-quality stainless steel dirt container **(V2A)**.

Liquid repellent cartridge filter avoids the sucking of oil mist or dust.

Length of the connection cable: 8 m

Type		EP 1236	EP 2230	EP 2240	EP 2255
Voltage	volt	230	400	400	400
Power output	watt	3.600	3.000	4.000	5.500
Max. air flow rate	m³/h	490	330	330	510
Negative pressure	mbar	210	300	320	320
Filter surface	m²	1,0	1,0	1,0	1,0
Dirt container	l	145	145	145	145
Swarf basket	l	60	60	60	60
Fill level control	Type	electronic	electronic	electronic	electronic
Type of protection		IP 33	IP 55	IP 55	IP 55
Noise level	dB(A)	78	70	76	76
Suction connection	Ø mm	Kamlock-50	Kamlock-50	Kamlock-50	Kamlock-50
dimensions	cm	120x68x136	120x68x136	120x68x136	125x68x136
Weight	kg	100	168	170	191
	Art.-No.	151-2000	251-2020	251-2030	251-2080

Included in delivery:

3,5 m PUR-suction hose Ø 50 mm and crevice nozzle



Liquid bath vacuum cleaners – 400 Volt

EVOTEC



- Ideal for the 3D printing industry
- Liquid bath for passivation of explosive matured dusts
- Side channel blower for permanent operation and EX-protection
- Complete safety related equipment
- Comfortable lowering of the dirt container
- H14-cartridge filter (2m²) und Special-VA-filter (1m²)
- ESD-suction hose

EP 2122 ECO-WB

2.200 watt
400 volt
330 m³/h
240 to 300 mbar
100 liter container

Binds hazardous dusts in a liquid bath
e.g. aluminum,
titanium

Available in types:



Powerful industrial vacuum cleaner with integrated liquid bath-separator for the suction of explosive, matured metal powder, e.g. aluminum, copper, titan etc.

Integrated **liquid bath pre-separator** in the dust container for secure suction of metallic dust.

Critical fine dust types are bound at a liquid separating medium (e.g. water).

Large liquid bath tank with safety device to settle down the sucked media:

Minimum level = 25 liters
Maximum level = 35 liters

Optical level monitoring for minimal and maximal filling.

Degassing valve avoids congestion of developing gases and steams.

Additional special-V2A-filter plus H14-cartridge filter for a secure separation in dust class H according to EN 60335-2-69.


High quality standards – well designed, silenced turbine (side channel blower) at the exhaust side.

Comfortable lowering of the dirt container for **easy disposal** of the absorbed matter.

Equipped with intake bend with Kamlock coupling for a secure connection of the suction hose.

Length of the connection cable: 8 m



Type		EP 2122 ECO WB
Voltage	volt	400
Power output	watt	2.200
Max. airflow rate	m³/h	330
Negative pressure	mbar	240 / 300 max.
Filter surface VA-Filter Filter surface „H“ (H14)	m² m²	1,0 + 2,0
Dirt container: Minimum-Level Maximum-Level	Liter Liter Liter	100 25 35
Type of protection		IP 55
Noise level	dB(A)	78
Suction connection	Ø mm	40 mm Kamlock
Dimensions	cm	83 x 68 x 165
Weight	kg	100
Dust class H/Type 22 	Art.-No.	251-3080



Compressed air dry vacuum cleaner

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Powerful compressed-air ejectors with silencers
- ATEX labelling:
EX II 2 GD c IIB TX
suitable for zone 1 und 2 and zone 21 und 22
- Complete safety related equipment
- Comfortable lowering of the dirt container

EP 312-60

Operating pressure
6-10 bar:
300 m³/h
200-280 mbar
60 l container

Available in types:



Zone 1 + 2
Zone 21 + 22

High performance compressed air vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (μm)

High quality standards– well designed, powerful **compressed-air ejectors with silencer** for the secure usage even in explosive areas (Zones 1/2 und 21/22).

No electric components. Suitable for **three-shift-operation**.

Comfortable lowering of the dirt container for **easy disposal** of the absorbed matter.

Cyclone separator for better pre-separating of fine dust particle and coarse matter.

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

2nd level filter:

“Absolut”- cartridge filter dust class **H (H14)**.

Effective, easy to use **filter cleaning** for long operating intervals without interruption.



Vacuum gauge for filter monitoring.

Patented, tool less **filter change** with **low contamination risk**.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose.

While using in an EX-Zone:

Includes **ESD-castors** and **grounding terminal** for potential bonding
Length: 2 m

Type		EP 312-60 dry
Compressed-air ejectors	Amount	2
Consumption	m ³ /h	56 (at 4 bar flow pressure)
Operating pressure	bar	6 – 10
Max. air volume	m ³ /h	300
Max. negative pressure	mbar	200 - 280
Filter surface „M“ Filter surface „H“ (H14)	m ² m ²	2,2 or 3,2 + 2,0
Dirt container	l	60
Suction connection	Ø mm	80
Noise level	dB(A)	78
Dimensions	cm	83 x 68 x 140
Weight	kg	100
Dust class M	Art.-No.	151-1082
Dust class H	Art.-No.	151-1083
Dust class M Zone 1, 2, 21, 22 	Art.-No.	151-1084
Dust class H Zone 21, 22 	Art.-No.	151-1085

Included in delivery:


3,5 m suction hose Ø 50 mm and crevice nozzle



Compressed air wet vacuum cleaner

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Powerful compressed-air ejectors with silencers
- ATEX labelling:
 **EX II 2 GD c IIB TX**
suitable for Zone 1 und 2 and Zone 21 und 22
- Complete safety related equipment

EP 302-120

Operating pressure
6-10 bar:
300 m³/h
200-280 mbar
120 l container

Available in types:



Zone 1 + 2
Zone 21 + 22

Powerful compressed air wet vacuum cleaner for the suction of liquids.

High quality standards– well designed, powerful **compressed-air ejectors with silencer** for the secure usage even in explosive areas (Zones 1/2 und 21/22).

No electric components. Suitable for **three-shift-operation**.

Floating device for monitoring of the liquid level (Interruption of the suction air current).


Tipper chassis for easy disposal of the absorbed matter.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose.

Including 1 m dump hose for the disposal of liquids.

While using in an EX-Zone:

Includes **ESD-castors** and **grounding terminal** for potential bonding
Length: 2 m

Type		EP 302-120 wet
Compressed-air ejectors	Amount	2
Consumption	m³/h	56 (at 4 bar flow pressure)
Operating pressure	bar	6 - 10
Max. air volume	m³/h	300
Max. negative pressure	mbar	200 - 280
Dirt container	l	120
Suction connection	Ø mm	80
Noise level	dB(A)	78
Dimensions	cm	50x65x105
Weight	kg	74
Liquid vacuum cleaner Standard	Art.-No.	151-1041
Liquid vacuum cleaner Zone 1, 2, 21, 22 	Art.-No.	151-1043

Included in delivery:

3,5 m suction hose Ø 50 mm and crevice nozzle



Cleaner for compressible material– 400 Volt

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Complete safety related equipment
- Strong suction performance
- Sight glass for level monitoring
- Re-usable cloth filter bag

EP 2330

EP 2340

3.000 to 4.000 watt
400 volt
300 to 330 m³/h
260 to 360 mbar
145 liter container

Ideal for
compressible
materials, e.g.
textiles, fleece,
packaging materials

Available in type:



Powerful industrial vacuum cleaners, optimized for the suction of compressible materials.

High quality standards – well-designed, silenced and maintenance-free turbine (side channel blower) as vacuum generator. Suitable for **three-shift-operation**.

Textile industry: Suction of yarns and fibers at textile machines

Packaging industry: Packaging remains and empty packages

Paper industry: Edge strips and cutting dust

These vacuum cleaners achieve **a greater storage capacity** toward conventional vacuum cleaners through compression.

By the airflow of the aspiration, the material is sucked into the filter bag. Inside, the material is **compressed by the high negative pressure**. Afterwards, the compressed material can be easily disposed or recycled.

Equipped with an intake bend with Kamlock coupling for a secure connection of the suction hose.

Length of the connection cable: 8 m

Type:		EP 2330	EP 2340
Voltage	volt	400	400
Power output	watt	3.000	4.000
Max. airflow rate	m³/h	330	330
Max. neg. pressure	mbar	340	360
Filter surface	m²	1,3	1,3
Dirt container	l	145	145
Capacity of filter bag	l	100	100
Noise level	dB(A)	73	76
Suction connection	Ø mm	50 Kamlock	50 Kamlock
Dimensions	cm	120x68x136	120x68x136
Weight	kg	85	87
Dust class M	Art.-No.	251-2040	251-2050

Included in delivery:

3,5 m suction hose Ø 50 mm und crevice nozzle



SuperSilent - 58 dB(A) Industrial vacuum cleaner

EVOTEC



- All parts coming in contact with the product are made from stainless steel (1.4301)
- Side channel blower for permanent operation and EX-protection
- Complete safety related equipment
- **Super silent, only 58 dB(A)**
(at 2,2 kW)
- Longopac disposal system

EPS 1115/2115

EPS 2122

EPS 2130

EPS 2140

1.500 to 4.000 watt
230 or 400 volt
200 to 300 mbar
220 to 410 m³/h

Available in types:



Super silent high performance industrial vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust (µm)

High quality standards – excellent silenced turbine (side channel blower)
– **very quiet: between 56 to 63 dB(A).**

Suitable for **three-shift-operation**. Can also be used on pipe systems or with very long hoses.

Sturdy and smooth-running chassis for **high mobility**. Compact, modular structure with high-quality stainless steel dirt container (**V2A**).

Easy disposal of the suction material with **low contamination** by **Longopac system** ("Endless bag" which is to be pulled down as needed.)

1st level filter:

Durable polyester needle-felt filter with **PUR-membrane**, dust class **M**, high filter effect for long durability.

2nd level filter:

"Absolut"- cartridge filter dust class **H (H14)**.



Effective, easy to use **filter cleaning** for long operating intervals without interruption.

Vacuum gauge for filter monitoring.

Patented, tool less filter change – easy and safe for staff and maintenance.

Fast coupling with locking mechanism and rotating device for a secure connection of the suction hose.

Length of the connection cable: 8 m

Type		EPS 1115	EPS 2122	EPS 2130	EPS 2140
Voltage	volt	230	400	400	400
Power output	watt	1.500	2.200	3.000	4.000
Max. airflow rate	m³/h	220	330	330	410
Max. neg. pressure	mbar	200/ 240 max.	240 / 300 max.	260 / 340 max.	240 / 300max.
Filter surface „M“	m²	1,75 or 5,0	1,75 or 5,0	1,75 or 5,0	1,75 or 5,0
Filter surface "H14"	m²	+ 1,7	+ 1,7	+ 1,7	+ 1,7
Sound level	dB	55	58	59	63
Type of protection		IP 55	IP 55	IP 55	IP 55
Suction connection	Ø mm	80	80	80	80
Dimensions	cm	108x55x163	108x55x163	108x55x163	108x55x163
Weight	kg	140	148	150	160
Dust class M	Art.-No.	151-3070	251-4010	251-4020	251-4030
Dust cl. M/Typ22 	Art.-No.	151-3071	251-4011	251-4021	251-4031
Dust class H	Art.-No.	151-3072	251-4012	251-4022	251-4032
Dust cl. H/Typ22 	Art.-No.	151-3073	251-4013	251-4023	251-4033

Included in delivery:

3,5 m suction hose Ø 50 mm and crevice nozzle



Figure: optional with atmospheric pulse-cleaning (PPU)

Pocket filter for all EVOTEC models

(In the subsequent change from 2.2 m² to 3.2 m² and the filter basket must be exchanged)



Dust class M

Polyester-needle felt with **PUR-Membrane** (installed by default)

Non-stick properties – for sticky or adhesive dusts
Also for the suction of fine dust with abrasive nature (e.g. fiber glass)

1,75 m², Ø 400 mm = **054-20085B**
2,20 m², Ø 500 mm (fig) = **054-20086B**
3,20 m², Ø 500 mm = **054-20087B**
5,20 m², Ø 500 mm = **054-20088**



Dust class M

Robust polyester-needle felt with **PTFE-Membrane**
Non-stick properties – for sticky or adhesive dusts

Heat-resistant
Temporary (30 min.) up to 200 °C
Continuous up to 150 °C



1,75 m², Ø 400 mm = **054-20115**
2,20 m², Ø 500 mm = **054-20116**
3,20 m², Ø 500 mm (fig) = **054-20117**
5,20 m², Ø 500 mm = **054-20118**



Dust class M

Polyester-needle felt with **antistatic PUR-Membrane**

Antistatic – for the suction of dust that can accumulate static charge

Food-safe – for the application in sensitive areas such as pharmaceutical or food production

1,75 m², Ø 400 mm = **054-20127**
2,20 m², Ø 500 mm (fig) = **054-20128**
3,20 m², Ø 500 mm = **054-20129**
5,20 m², Ø 500 mm = **054-20130**

Pocket filters / Absolutely cartridge filter



Für ECODust-Modelle:

Dust class M

Polyester-needle felt with **PUR-Membrane** (installed by default)

Non-stick properties - for sticky or adhesive dusts
Also for the suction of fine dust with abrasive nature (e.g. fiberglass)

1,0 m², Ø 400 mm = **054-20156**



Dust Class H (H14)

Absolute cartridge filter for all types of EVOTEC

Double-sided support grid,
to buy for replacement:

1,7 m², Ø 400 mm = **054-20018**
2,0 m², Ø 500 mm = **054-20027**
4,3 m², Ø 500 mm = **054-20033**



Cartridge filter for swarf vacuum cleaners

For models EP 1236, EP 1236-100 and EP 1236-140 - suitable for oil mist and dirty water, rinsable

To buy for replacement

1,0 m², Ø 500 mm = **054-10059**

Disposal options



Plastic disposal bag, antistatic ESD

Packing unit = 10 pcs



For dust-free disposal of dust particles (dust classes M and H)

Highly stable and „nail tested“

Perfect fit due to round bottom – no bypass necessary.

Suitable for:

25/35-l-container = **235-1011**

60-l-container = **235-1021**

100-l-container = **235-1031**



Longopac - bag



„Endless“-bag for easy and dust free disposal of the absorbed matter. 20m tubular bag with cable straps to seal.

Packing unit = 4 units á 20 Meter

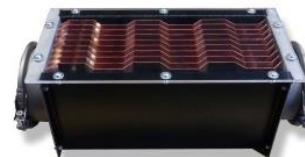
Stable **ESD-Quality**

Thickness: 68 mic. **235-1050**

Extra sturdy quality
(not ESD)

Thickness: 68 mic. **235-1060**

Options



Spark trap

Prevents the suction of sparks into the vacuum cleaner. Due to the air redirection, the sparks bounce against the copper plates and expire. Via the detachable faceplate the trap can be cleaned.

connections Ø 80 mm

053-4000

connections Ø 150 mm

053-4001



Spark trap with metal knit insert

prevents the suction of sparks into the system. Different diameters for integration in pipe system or suction hose

Ø 80 mm

072-0628

Ø 100 mm

072-0629

Ø 150 mm

072-0630



Bypass for standard disposal bags

Due to vacuum compensation, it allows the usage of standard disposal bags.

Consists of connection hose from dirt container to filter compartment, including Kamlock-connection for easy decoupling and re-coupling.

053-3030

Accessory for wet- and swarf vacuum cleaners

	<p>Pocket filter for EP 1036 For wet- and dry vacuum cleaner EP 1036 1,0 m², 9 pockets, Ø 500 mm, to buy for replacement</p> <p>Filter = 054-10144 Ring = 054-10136</p>
	<p>Filter cartridges for EP 1036 for EP 1036 Version up from 2017 filter cartridge 0,5m², dust class M</p> <p>pro piece 054-20112</p>
	<p>Swarf basket 60 liters Swarf-liquid vacuum cleaner Bottom height adjustable from 190 to 375 m</p> <p>Instead of separating plate (optional) order with machine 053-3090 to buy for replacement as spare part 054-30075</p>
	<p>PUR-suction hose For swarf –and emulsion vacuum cleaner With fitting for Kamlock-coupling</p> <p>3,5 m, Ø 50 mm = 052-0278 5,0 m, Ø 50 mm = 052-0279</p> <p>Suitable Kamlock-fitting for suction hose Ø 50 mm 052-0261</p>

Options for pump vacuum cleaner EP 1024

	<p>Wastewater hose 15 m With Stortz/C-coupling for pump vacuum cleaners Usable up to 10 bar Inner diameter: 52 mm</p> <p>732-1016</p>
	<p>Stortz/C-coupling 1 1/2 IG To connect the wastewater hose to the container of the vacuum cleaner</p> <p>732-1022</p>
	<p>PRCDS-safety switch for 230-V-devices</p> <p>Recommendable according to the “Berufsgenossenschaft” (Employers' Liability Insurance Association)</p> <p>143-1010</p>

Options Liquid bath vacuum cleaner WB	
	Replacement or swap body 100ltr. Liquid bath pre-separator incl. Lid with demister insert, drain hose (optical level control), Kamlock suction connection Ø 40 mm 054-3222
	Kamlock-coupling for suction hose with Ø40mm hose nozzle 052-0198
	ESD-Superflex-suction hose  Complete electrical conductive $10^4 \Omega$ Ø 40 mm = 052-0200 Schlauchmuffe (Saug-Seite) for ESD-Superflex-Schlauch antistatic Ø 40 mm = 052-0139
	ESD-PUR-suction hose  Complete electrical conductive $10^3 \Omega$ Ø 40 mm = 052-0196 Fitting (suction side) for ESD-PUR-hose antistatic Ø 40 mm = 052-0141

Options Liquid bath vacuum cleaner WB	
	Filter cartridge M Polyester non-woven electrically conductive, 0,3 m², L 200 mm – 3 pieces needed 1 piece 054-20124
	Stainless steel demister for Water bath separator height 50mm, density 175 kg/m³ Demister 054-90190 Holder for demister 054-30102 (3 pieces are needed)
	Dust class H (H14) Absolute-cartridge filter Double-sided support grid Replacement filter to buy: 2,0 m², Ø 500 mm = 054-20027
	Drain hose For liquid bath pre-separator Ø25mm, linear meters. = 054-30033

Options / Accessories ROBUSTO line



Upgrade to dust class H
Absolute-cartridge filter
 Dust class H (H14) Double-sided support grid

1,7 m², Ø 400 mm = **054-20018**
 2,0 m², Ø 500 mm = **054-20027**
 4,3 m², Ø 500 mm = **054-20033**

to 3,0 kW:



from 4,0 kW:



Upgrade „tested for safety“

GS-configuration - including GS-certificate
 Equipment according to DIN 60335-2-69 for the use of the vacuum cleaner in areas with high safety requirements.

Including phase direction monitor and phase changing plug
 for 2,2 - 3,0 kW = **054-6435**
 for 5,5 - 7,5 kW = **054-6455**



Upgrade EX-proof for zone 22
including GS-certificate

EX-proof-equipment of the vacuum cleaner for the safety suction of fine dusts in hazardous area in zone 22.

Including phase direction monitor, phase changing plug and vacuum limit valve
 for 2,2 - 3,0 kW = **054-6433**
 for 5,5 - 7,5 kW = **054-6453**



ASBESTOS-Exhaust air hose
 Complete with Stortz-coupling for connecting it to the exhaust vent, diameter Ø 70 mm

1,5 kW to 5,5 kW = **053-3092**
 7,5 kW = **053-3093**

Pre-separators



Filter- pre-separator V2A

60 liter dirt container with easy lowering via levers for the comfortable disposal of absorbed matters.

Robust chassis including accessory box.
 Connection sleeve Ø 80 mm

Dust class M
 including pocket filter 2,2 m² surface
053-2030

Matching absolute filter cartridge
dust class H - 2,0 m² surface

054-20027

Find suitable suction- and connection hoses for pre-separators at „accessories“.



Wet- pre-separator V2A

140 liter dirt container V2A with robust tilting chassis.

Dump hose for easy disposal of liquids.

Includes floating system for pre-separators

Connection sleeve Ø 60 and suction bend Ø 50 mm

Attention: The suction hose needs two suction side fittings!

053-1070

Pre-separator



Pre-separator 100 liters

Completely made of stainless steel with 4 swivel castors.

Different connector bends

Ø 60 + Ø 50 mm = **053-1090**

Ø 60 + Ø 40 mm = **053-1091**

Ø 50 + Ø 50 mm = **053-1092**

Ø 40 + Ø 40 mm = **053-1093**

Ø 40 + Ø 50 mm = **053-1094**

Attention: The suction hose needs two suction side fittings!

Floating system for pre-separator

for suction of liquids **053-1051**

Draining hose for pre-separator

universally suitable **053-3010**

Connection hose for the connection to the vacuum cleaner,

complete with fittings, length 2,0 m, Ø 60 mm

PUR = **053-3081**

Superflex = **053-3080**



Tandem connection set

For 100 liter or 150 liter pre-separators.

With this set the pre-separator can be combined with the industrial vacuum cleaner to form a mobile unit.

Incl. connection hose from pre-separator to vacuum cleaner (angled hose coupling)

Suitable for models

EP 1136, EP 2122 ECO und EP 2130 ECO
053-2070

Pre-separator



Container with hinged floor 1000 liters

With Ø 80-connections

To pre-separate solids (e.g. turf, sand, etc.)

Pull springs buffer the bottom flap during the discharging process.

Automatic closure of the bottom flap when container is deposited.

Unlocking per cable operation without leaving the lifter.

Chain protection against sliding of the tines

053-2020



Tilting container pre-separator 500 liters

With Ø 80-connections

To pre-separate solids and liquids.



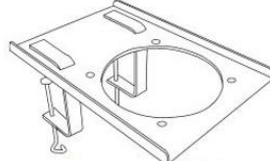
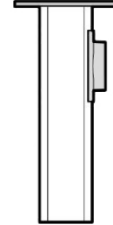
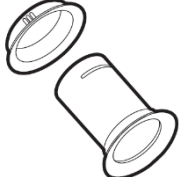
Tilting in every height per cable control without leaving the lifter.

Stable basic frame with fork pockets, favorable load center

Protected against unintentional sliding and spilling

053-2010

Suction arms 	
	<p>The suction arm allows the punctual suction directly at the point of origin. Due to the self-supporting construction simple to handle and easy to position.</p> <p>Antistatic design and therefore usable for the use in ESD-areas (grounded with a resistance of 1MΩ).</p> <p>Size Ø 50 mm – ideal up to 3 kW Optimal for small coverage areas, e.g. in electronic industries, laboratories, dentistry, laser technologies, nail spa, gold smith etc.</p> <p>Size Ø 75 mm – ideal from 3 kW Usable in many different sectors, e.g. laboratories, laser technology, chemical and pharmaceutic industry, food industry, schools, universities or machine industry.</p>
	<p>Suction arm ESD, for table mounting Inclusive holder for table duct.</p> <p>Ø 50 mm Reach 1.300 mm 072-0400 Reach 1.500 mm 072-0401</p> <p>Ø 75 mm Reach 1.300 mm 072-0402 Reach 1.500 mm 072-0403</p>
	<p>Absaugarm ESD, zur Decken- o. Wandmontage Inklusive Wand-/Decken-Halterung</p> <p>Ø 50 mm Reichweite 1.300 mm 072-0404 Reichweite 1.500 mm 072-0405</p> <p>Ø 75 mm Reichweite 1.300 mm 072-0406 Reichweite 1.500 mm 072-0407</p>

Suction arms and options 	
	<p>Universal console</p> <p>Bracket / console for the extraction arm of EVOTEC industrial vacuum cleaners.</p> <p>Ø 50 mm 053-3051 Ø 75 mm 053-3061</p>
	<p>Flexible table console ESD</p> <p>Holder/Console for mounting the arm on a (table-)plate, universal for</p> <p>Ø 50 mm / Ø 75 mm 072-0428</p>
	<p>Ceiling console ESD</p> <p>Universal holder/console for arm Ø 50 mm and Ø 75 mm, diverse lengths:</p> <p>Length 250 mm 072-0418 Length 500 mm 072-0419 Length 750 mm 072-0420 Length 1000 mm 072-0421 Further lengths on request</p>
	<p>Straight hood tube ESD</p> <p>Spare part for hood, also usable as straight inlet nozzle.</p> <p>Ø 50 mm 072-0429 Ø 75 mm 072-0430</p>

Cartridge filter system with jet cleaning



Cartridge filter unit with Jet-cleaning

Filter surface 7,5 m², PTFE antistatic, with FDA certificate

Perfect for automatic and continuous cleaning of filter cartridge while sucking up very fine and dry dust particles.

Cleaning cycles are induced by the automatic control and can be defined as required.

The system cleans the filter elements in the cartridge with blasts of compressed air. It is not necessary to shut down the engine.

Filter cartridge class M, antistatic (standard). Combination with filter dust class H (H14) is possible.

Attention: external compressed air necessary!

Included in delivery:

Reservoir for compressed air, volume expansion, control unit, cartridge filter, cleaning unit

For models:

EP 2122, EP 2130, EP 2140 ECO, EP 2150 ECO
053-3022

EP 2140 and EP 2155
053-3021

EP 2175 and EP 21130
053-3020

To buy for replacement

conical, Filter surface 7,5 m², PTFE antistatic
054-20092



Filter cleanings and replacement filters



Atmospheric Pulse-cleaning (PPU)

Sudden atmospheric pressure cleans the pockets/pleats of the filter at defined time intervals. Including automatic controls

For Pocket filter from 1,75 m² and cartridge filter up to 5 m², 1 ¼" inch
053-3026

For Pocket filter from 2,2 m² and cartridge filter up to 10 m², 1 ½" inch
053-3025



Cartridge filter – to buy for replacement for pulse-cleaning (PPU), Dust class M

5,0 m² electrically conductive
054-20123

5,0 m² PTFE electrically conductive
054-20122

10,0 m²
054-20102

10,0 m², V4A electrically conductive and food safe
054-20103

without picture

Electromechanical filter-cleaning

Automatic filter-cleaning after switching off the vacuum cleaner. The pockets or folds are set in vibration with a shaker motor and the dust is shaken off

universal
053-3027

Control Options

**Frequency converter (FU)**

For variable speed control and increased performance of the turbine.

Version for 230 Volt:

1,5 kW **054-6911**
2,2 to 3,0 kW **054-6912**

Version for 400 Volt:

1,5 kW **054-6921**
2,2 to 3,0 kW **054-6922**
4,0 to 5,5 kW **054-6923**
5,5 to 7,5 kW **054-6924**
7,5 to 11,0 kW **054-6925**
11,0 to 15,0 kW **054-6926**

Suitable holding console for the switch box please order as well: **054-40208**

**Remote ON/OFF via cable (FSK)**

24 volts with power supply unit (potential free contact), output voltage 24 volts AC with interconnection point, motor protection relay, switch = 0/automatic/hand.

If not in combination with FU, additional switch box is needed for FSK.

Without switch box **054-6931**
With switch box **054-6930**
holding console for switch box **054-40208**

**Remote ON/OFF via radio (FSF)**

With hand-held transmitter and receiver, operates up to 350 m distance.

If not in combination with FU, additional switch box is needed for FSK.

Without switch box **054-6933**
With switch box **054-6932**
holding console for switch box **054-40208**
Additional hand-held transmitter **054-60322**

Device Options

**Nozzle for large floor areas**

To clean wide floor areas
Easy self-assembly, incl. connection hose

Suitable for:

EP 1136, EP 2122 ECO, EP 2130 ECO
Width 700 mm
053-1020

**Hose bracket**

Optimal for the storage of long hoses.

Suitable for all models with 60 liter dirt container
(EP1136, EP2122 ECO, EP2130 ECO, EP 2122, EP 2130, EP 2140 ECO, EP 2155 ECO)

Suitable for up to 10 m hose
053-3070

Barrel suction



Barrel pre-separator 210 liters

210 liters powder coated standard barrel, universally suitable as pre-separator with suction connections

Ø 40 mm = **053-1043**
Ø 50 mm = **053-1044**

Floating system for pre-separator

Universally suitable, also for the assembly set
053-1051



Kit for barrel pre-separator

Universal for 200 liter lidded drums (without lid) for self-assembly, with suction ports

Ø 40 mm = **053-1041**
Ø 50 mm = **053-1042**



Assembly kit for barrel pre-separator

Universally fitting for 200 liters lidded drum (without lid) for self-assembly, with suction connections

053-1060

Device Options



Activated carbon filter module

To absorb odors and fumes.

25-l-container filled with activated carbon, individual matching, suitable for all models with turbine chassis

053-2060



Electronic liquid level control

Can be ordered directly with the vacuum cleaner. The control allows the suction of liquids with a dry vacuum cleaner due to the flex probe.

The probe plunges into the dirt container and prevents the spilling over of liquids.

Only for dust classes M and H (not Type22).

Consisting of a flex probe, holder and electronics

053-3040

Practical accessory sets

Machine cleaning kit

optimized for the cleaning
of production machines, complete antistatic

Consisting of bulk suction nozzle,
inclined tube rubber nozzle and
pointed rubber nozzle



Ø 40 mm **052-1081**
Ø 50 mm **052-1071**

Set for cleaning at altitude

for the cleaning in heights,
e.g. supply tubes

consisting of 4 hand tubes Ø40mm,
each 500mm long
(052-1100 including connector from
Ø40 to Ø50mm), curved tubular
nozzles 100 mm and 200 mm,
as well as a wall- and floor nozzle



Ø 40 mm **052-1090**
Ø 50 mm **052-1100**

Industrial floor cleaning kit

for the cleaning of all floors,
complete antistatic



Consisting of multi-part hand tube, metal revolving nozzle with
brush strip and replacement rubber strips

Ø 40 mm, width 370 mm **052-1031**
Ø 40 mm, width 450 mm **052-1036**
Ø 50 mm, width 370 mm **052-1041**
Ø 50 mm, width 450 mm **052-1051**
Ø 50 mm, width 500 mm **052-1061**



YouTube

(All Ø specifications refer to the inner hose diameter)

PP- hose and - components

Made of polypropylene (PP), antistatic, with suitable fittings.
Well suitable for the industrial usage.

	PP-suction hose antistatic, complete with fittings Length 3,5 m Ø 40 mm = 052-0151 Length 3,5 m Ø 50 mm = 052-0248 Length 5 m Ø 40 mm = 052-0152 Length 5 m Ø 50 mm = 052-0249
	Linear meters (for extension or self-manufacturing) Ø 40 mm = 052-0130 Ø 50 mm = 052-0230
	Fitting (suction side) for PP-hose antistatic Ø 40 mm = 052-0140 Ø 50 mm = 052-0240
	Fitting (vessel side) for PP-hose antistatic incl. retaining ring Ø 80 - 40 mm = 052-0159 Ø 80 - 50 mm = 052-0256 only ECODust/Compact Ø 60 - 40 mm 052-0145 Ø 60 - 50 mm 052-0244

Superflex-hose and - components

Made of polypropylene (PP), thread-strengthened and spiral-protected. Extra light and flexible also for longer distances. Well-suitable for industrial usage.

Discharging = when spiral is grounded

	Superflex-suction hose, electrically conductive, complete with fittings Length 3,5 m Ø 40 mm = 052-0153 Length 3,5 m Ø 50 mm = 052-0250 Length 5 m Ø 40 mm = 052-0154 Length 5 m Ø 50 mm = 052-0251
	Linear meters (for extension or self-manufacturing) Ø 40 mm = 052-0133 Ø 50 mm = 052-0136 Ø 60 mm = 054-90037
	Fitting (suction side) for Superflex-hose antistatic Ø 40 mm = 052-0139 Ø 50 mm = 052-0239
	Fitting (vessel side) for Superflex-hose antistatic, incl. retaining ring Ø 80 - 40 mm = 052-0158 Ø 80 - 50 mm = 052-0255 only ECODust/Compact Ø 60 - 40 mm 052-0144 Ø 60 - 50 mm 052-0243

(All Ø specifications refer to the inner hose diameter)

PUR-hose and - components

Made of polyurethane (PUR). Enhanced bay integrated steel spiral. Oil-resistant, sturdy and suitable for abrasive dusts. Heat proof up to 125°C. Well-suitable for extreme industrial usage.

Discharging = when spiral is grounded

	PUR-suction hose, electrically conductive, complete with fittings Length 3,5 m Ø 40 mm = 052-0155 Length 3,5 m Ø 50 mm = 052-0252 Length 5 m Ø 40 mm = 052-0156 Length 5 m Ø 50 mm = 052-0253
	Linear meters (for extension or self-manufacturing) Discharging when spiral is grounded Ø 40 mm = 052-0136 Ø 50 mm = 052-0236 Ø 70 mm = 052-0309 Reinforced version: Ø 40 mm = 052-0157 Ø 50 mm = 052-0254 Ø 70 mm = 052-0310
	Fitting (suction side) for PUR-hose antistatic Ø 40 mm = 052-0141 Ø 50 mm = 052-0241 Ø 70 mm = 052-0311
	Fitting (boiler side) for PUR-hose antistatic incl. Retaining ring Ø 80 - 40 mm = 052-0160 Ø 80 - 50 mm = 052-0257 only ECODust/Compact Ø 60 - 40 mm = 052-0146 Ø 60 - 50 mm = 052-0245

ESD-hose and - components

Hose material: polyurethane (PUR) or polypropylene (Superflex). Both spiral-supported, Superflex additionally reinforced with thread. Ideally suited material for industrial use in potentially explosive atmospheres.

Completely electrically conductive 10³ to 10⁴ Ω





	ESD-Superflex-suction hose Completely electrically conductive 10 ⁴ Ω Ø 40 mm = 052-0200 Ø 50 mm = 052-0287
	ESD-PUR-suction hose Completely electrically conductive 10 ³ Ω Ø 40 mm = 052-0196 Ø 50 mm = 052-0281
	Fitting (suction side) for ESD-Superflex-suction antistatic Ø 40 mm = 052-0139 Ø 50 mm = 052-0239 for ESD-PUR-suction antistatic Ø 40 mm = 052-0141 Ø 50 mm = 052-0241
	Fitting (boiler side) for ESD-Superflex-suction hose antistatic incl. Retaining ring Ø 80 - 40 mm = 052-0158 Ø 80 - 50 mm = 052-0255 for ESD-PUR-suction hose antistatic Ø 80 - 40 mm = 052-0160 Ø 80 - 50 mm = 052-0257

Metal-hoses and - components

Made of metal, reinforced with metal bands and sealing threads.

Axial flexible, torsionally rigid, heat proof up to 400° C.



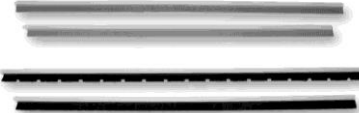
Suitable for dry dusts only.

	Metal-suction hose fiberglass-compressed, complete with fittings Length 3,5 m Ø 40 mm = 052-0186 Length 3,5 m Ø 50 mm = 052-0271 Length 5 m Ø 40 mm = 052-0187 Length 5 m Ø 50 mm = 052-0272
	Linear meters (for extension or self-manufacturing) Ø 40 mm = 052-0185 Ø 50 mm = 052-0270
	Universal fitting (boiler side), usable for all hose types Ø 80 - 40 mm = 052-0175 Ø 80 - 50 mm = 052-0266 Ø 80 - 60 mm = 054-90013 Ø 80 - 70 mm = 052-0312 Ø 80 - 80 mm = 052-0322
	Fitting (suction side) for Metal hose Ø 40 mm = 052-0112 Ø 50 mm = 052-0208

- Accessories

	Crevice nozzle, metal Ø 40 x 300 mm = 052-0109 Ø 40 x 500 mm = 052-0108 Ø 40 x 800 mm = 052-0107 Ø 50 x 300 mm = 052-0218 Ø 50 x 600 mm = 052-0219
	Inclined tube nozzle, metal Ø 40 x 300 mm = 052-0110 Ø 50 x 300 mm = 052-0217
	Crevice nozzle metal, curved Ø 50 mm = 052-0220
	Rubber crevice nozzle, with connecting tube antistatic Ø 40 x 400 mm = 052-0150 Ø 50 x 430 mm = 052-0203

Accessories	
	<p>Ex Curved tube, chrome-plated</p> <p>Ø 36 mm = 052-0014 Ø 40 mm = 052-0111 Ø 50 mm = 052-0209</p>
	<p>Ex Hand tube, chrome plated</p> <p>Ø 36 x 500 mm = 052-0012 Ø 40 x 500 mm = 052-0112 Ø 50 x 500 mm = 052-0208</p>
	<p>Floor nozzle with brush strip and lateral rollers</p> <p>Ø 40 x 400 mm = 052-0116 Ø 50 x 400 mm = 052-0210</p> <p>Brush strip for replacement = 052-0026</p>
	<p>Floor nozzle with rubber strip and lateral rollers</p> <p>Ø 40 x 400 mm = 052-0117 Ø 50 x 400 mm = 052-0211</p> <p>Rubber strip for replacement = 052-0027</p>

Accessories	
	<p>Floor nozzle with carpet strip and lateral rollers</p> <p>Ø 40 x 400 mm = 052-0118</p> <p>Rubber strip for replacement = 052-0030</p>
	<p>Ex Robust Alu-floor nozzle with rollers and brush strip</p> <p>Ø 40 x 370 mm = 052-0120 Ø 40 x 450 mm = 052-0121 Ø 50 x 370 mm = 052-0213 Ø 50 x 450 mm = 052-0214 Ø 50 x 500 mm = 052-0215</p> <p>with rollers and rubber strip</p> <p>Ø 40 x 370 mm = 052-0192 Ø 40 x 450 mm = 052-0193 Ø 50 x 370 mm = 052-0276 Ø 50 x 450 mm = 052-0277</p>
	<p>Brush strip for replacement</p> <p>Length 370 mm = 052-0173 Length 450 mm = 052-0171 Length 500 mm = 052-0264</p> <p>Rubber strip for replacement, oil resistant</p> <p>Length 370 mm = 052-0194 Length 450 mm = 052-0195 Length 500 mm = 052-0280</p>

Ex - Accessories

	<p>Flat rubber nozzle with connecting tube antistatic (Without extension tube can also be attached to hand pipe)</p> <p>Ø 40 mm = 052-0126 Ø 50 mm = 052-0223 Ø 70 mm = 052-0304</p>
	<p>Pointed rubber nozzle with connecting tube antistatic (Without extension tube can also be attached to hand pipe)</p> <p>Ø 40 mm = 052-0124 Ø 50 mm = 052-0221</p>
	<p>Inclined tube rubber nozzle antistatic (Without extension tube can also be attached to hand pipe)</p> <p>Ø 40 mm = 052-0125 Ø 50 mm = 052-0222 Ø 70 mm = 052-0303</p>
	<p>Solid PP round brush Rubber with connection tube, broad brush head with brass components, antistatic</p> <p>Ø 40 mm = 052-0103 Ø 50 mm = 052-0205</p>





Accessories

	<p>Hand tube set for cleaning at altitude</p> <p>Ø 40 x 2000 mm = 052-0113 Ø 50 x 2000 mm = 052-0216</p>
	<p>Curved tubular nozzle Also usable for cleaning at altitude Ø 40 mm</p> <p>Curve width 100 mm = 052-0122 Curve width 200 mm = 052-0123</p>
	<p>Wall-and floor nozzle with brush strips</p> <p>Ø 40 x 300 mm = 052-0114</p>
	<p>Wall-and floor nozzle with rubber strips</p> <p>Ø 40 x 300 mm = 052-0115</p>

- Accessories Ø 70 mm

	<p>Hand tube with 3 handles, stainless steel Ø 70 mm, entire length 1,40 m Inclusive metal rubber sleeve to connect inclined tube nozzle or floor nozzle</p> <p>052-0305</p>
	<p>Floor nozzle with rollers and brush strips Ø 70 mm, width = 500 mm Stahl pulverlackiert</p> <p>052-0301</p>
	<p>Inclined tube nozzle Ø 70 mm, Länge 300 mm powder varnished steel</p> <p>052-0302</p>
	<p>Crevice nozzle Ø 70 mm, length 500 mm Electro-galvanized</p> <p>052-0317</p>

- Universal metal sleeves

	<p>Universal fitting (boiler side), usable for all hose types</p> <table> <tr> <td>Ø 80 - 40 mm =</td> <td>052-0175</td> </tr> <tr> <td>Ø 80 - 50 mm =</td> <td>052-0266</td> </tr> <tr> <td>Ø 80 - 60 mm =</td> <td>054-90013</td> </tr> <tr> <td>Ø 80 - 70 mm =</td> <td>052-0312</td> </tr> <tr> <td>Ø 80 - 80 mm =</td> <td>052-0322</td> </tr> </table>	Ø 80 - 40 mm =	052-0175	Ø 80 - 50 mm =	052-0266	Ø 80 - 60 mm =	054-90013	Ø 80 - 70 mm =	052-0312	Ø 80 - 80 mm =	052-0322
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Ø 80 - 80 mm =	052-0322										
	<p>Y-Allocator for universal use to connect two suction hoses to the vacuum cleaner</p> <table> <tr> <td>Ø 80x40x40 mm =</td> <td>052-0178</td> </tr> <tr> <td>Ø 80x50x50 mm =</td> <td>052-0268</td> </tr> </table>	Ø 80x40x40 mm =	052-0178	Ø 80x50x50 mm =	052-0268						
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	<p>Y-Allocator INOX for universal use to connect two suction hoses to one main hose</p> <table> <tr> <td>Ø 50x40x40 mm =</td> <td>052-0282</td> </tr> <tr> <td>Ø 50x50x50 mm =</td> <td>052-0283</td> </tr> </table>	Ø 50x40x40 mm =	052-0282	Ø 50x50x50 mm =	052-0283						
Ø 50x40x40 mm =	052-0282										
Ø 50x50x50 mm =	052-0283										
	<p>Plug in-connector for the connection of two hoses – universal</p> <table> <tr> <td>Ø 40 – 40 mm =</td> <td>052-0148</td> </tr> <tr> <td>Ø 50 – 50 mm =</td> <td>052-0247</td> </tr> <tr> <td>Ø 40 – 50 mm =</td> <td>052-0149</td> </tr> <tr> <td>Ø 70 – 50 mm =</td> <td>052-0321</td> </tr> <tr> <td>Ø 70 – 70 mm =</td> <td>052-0313</td> </tr> </table>	Ø 40 – 40 mm =	052-0148	Ø 50 – 50 mm =	052-0247	Ø 40 – 50 mm =	052-0149	Ø 70 – 50 mm =	052-0321	Ø 70 – 70 mm =	052-0313
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Ø 50 – 50 mm =	052-0247										
Ø 40 – 50 mm =	052-0149										
Ø 70 – 50 mm =	052-0321										
Ø 70 – 70 mm =	052-0313										

Content

	<u>from page</u>	Dirt- container	Longopac	230 V	400 V	Liquids	Dust class M	Dust class H	Asbestos	EX/Protection Zone 22
<u>Mobile industrial vacuum cleaner</u>										
ECODust 1200 / 1500 / 2400	4	25		x			x	x	x	
ECODust Maxi 15	6	35		x			x	x		x
EP 1122 / EP 1122-LP	8	35	x	x			x	x		
EP 1136	10	60		x			x	x		
EP 2122 ECO / EP 2130 ECO	12	60			x		x	x		x
EP 1115 / EP 2115 / EP 2122-35	14	35		x	x		x	x	x	x
EP 2122 / EP 2130 / EP 2140 ECO / EP 2155 ECO	16	60	x		x		x	x		x
EP 2140 / EP 2155 / EP 2175 ECO	18	100	x		x		x	x		x
EP 2175 / EP 21130	20	100			x		x	x		x
Robusto 1122	22	35		x			x	x	x	x
Robusto 2115 / 2122 / 2130	22	35			x		x	x	x	x
Robusto 2155 / 2175	22	100			x		x	x	x	x
Robusto 1122-LP	22		x	x			x	x	x	x
Robusto 2115-LP / 2122-LP / 2130-LP	22		x		x		x	x	x	x
Robusto 2155-LP / 2175-LP	24		x		x		x	x	x	x
EP 1036 / EP 1024 Pump	26	120		x		x				
EP 1236-140 / EP 1236-100 (Swarf-liquid vacuum cleaner)	28	140		x		x				
EP 1236 (Späne)	30	145		x		x				
EP 2230 / EP 2240 / EP 2255 (Swarf-liquid vacuum cleaner)	30	145			x	x				
EP 2122 ECO WB (Liquid bath vacuum cleaners)	32	100			x	x	x	x		x
EP 312-60 compressed air	34	60					x	x		Zone 21 + 22 Zone 1 + 2
EP 302-120 compressed air	36	120				x				Zone 21 + 22 Zone 1 + 2
EP 2330 / EP 2340 (compression)	38	145			x		x			
EPS 1115 / EPS 2122 / EPS 2130 / EPS 2140 (SuperSilent)	40		x		x		x	x		x
<u>Stationary extraction systems (deduster)</u>									activated carbon	
FEX 1000 / FEX 2000	62	Memory Filter		x			x	x	x	x
FEX 3000	66	Memory Filter		x			x	x	x	x
EP 2815 / EP 2822 (Central suction)	70	35			x		x	x	x	x
EP 2830 / EP 2855 / EP 2875 / EP 28110 (Central suction)	76	60 / 100			x		x		x	x
EP 2701 / EP 2702 / EP 2703 (Central suction)	82	LP / 60 / 100	x		x		x	x		x
EP 1415 / EP 2415 / EP 2422 (Mounting suction)	88	30		x	x		x			x
Accessories EVOTEC	42	Filter	pre- separator	Suction arm	Suction hose	Clutches	Nozzle	Control	Disposal	Sets
General information and decision support	83									

Mobile fume extraction FEX 1000 und FEX 2000

EVOTEC



- Process-adapted suction system for the extraction of smoke, vapours or airborne particles
- Powerful EC-Turbine suitable for continuous 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

FEX 1000 **FEX 2000**

1.100 Watt
230 Volt or
110 Volt
10.000 Pa max.
200 m³/h
Storage filter

Available in versions:



In Germany exclusive distribution

by

IVH-Absaugtechnik e.K.

Kreuzbergstraße 14

97828 Marktheidenfeld

Tel.: +49 (0)9391/81060-0



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

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

Comfortable filter change by **2-respective 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.

Suction with up to two hoses, or suction arm, hose connection at the back, top or the sides.

Modern control technology allows the **continuously variable control** of the suction power during operation.

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.

EX-protected according to ATEX

for the secure suction in Zone 22:
Equipment and parts of the device electrically conductive.




W3-design

including expanded metal filter as spark trap to avoid fire hazard

Included in delivery:

- Initial equipment set Filter:
- Storage filter M5/F9
 - HEPA filter H13/H14
 - Activated carbon-Filter

Further suitable accessory like hoses, suction arm and spare filters can be found in the accessory list.

Modell		FEX 1000	FEX 2000
Voltage at 50/60 Hz.	Volt	230 (or 110)	230 (or 110)
Power output	Watt	1.100	1.100
Max. air flow free blowing at turbine	m³/h	350	350
Max. air flow in operation	m³/h	200	200
Maximal length of suction hose	m	12 (Ø 50 mm)	12 (Ø 50 mm)
Max. negative pressure	Pa	10.000	10.000
1. Filter step storage filter	m²	F9 + G4	1,4 + 5,0
2. Filter step HEPA filter H13/H14	m²	2,8	5,6
3. Filter step activated carbon	kg	3,0	5,8
Sound pressure level	dB(A)	62	62
Weight	kg	58	60
Dimensions	mm	436 x 527 x 638	436 x 527 x 882
Type of protection		IP 55	IP 55
Operation temperature	°C	5 – 40	5 – 40
Operating humidity (non condensing)	%	10 – 90%	10 – 90%
Quality of stainless steel	VA	1.4301	1.4301
EX-protection (electric. conductive) 	Art-No.	710-1111	710-1121
W3-design (Welding fumes)	Art-No.	710-1113	710-1123



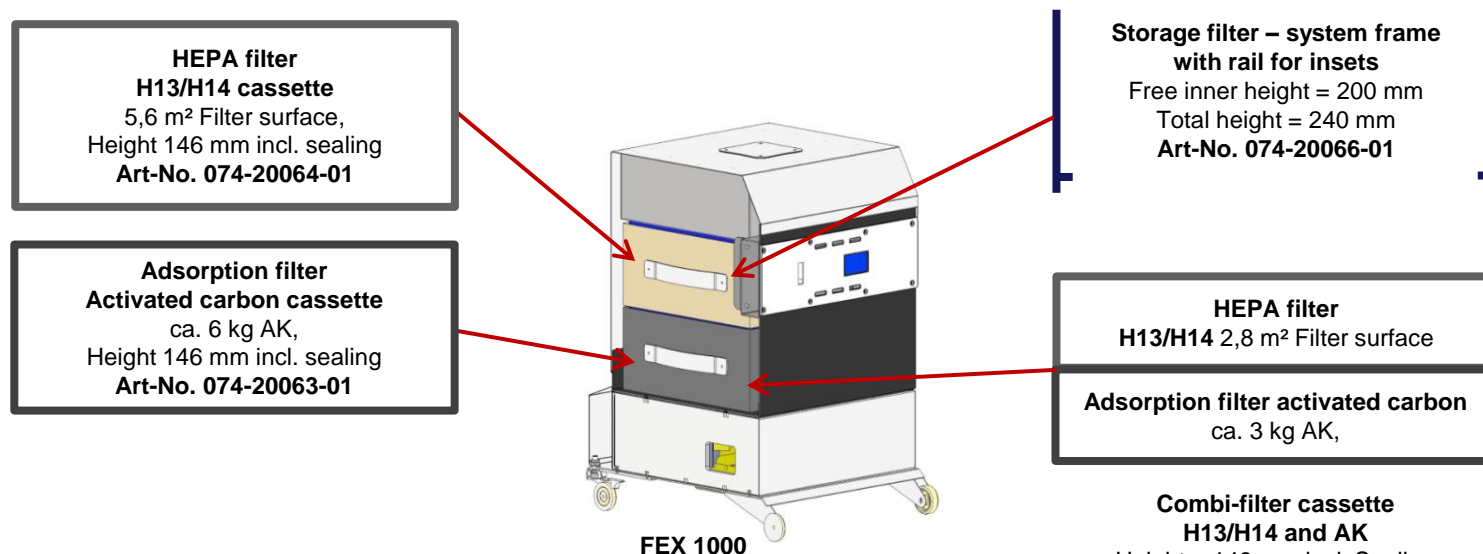
Replacement filter for FEX 1000

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, a system frame can be equipped with different filter insets depending on the application.

Possible combinations:

All cassettes height 146 can be combined with each other.



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

→ for more suitable accessories
please request separate brochure

Matching insets for storage filter

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

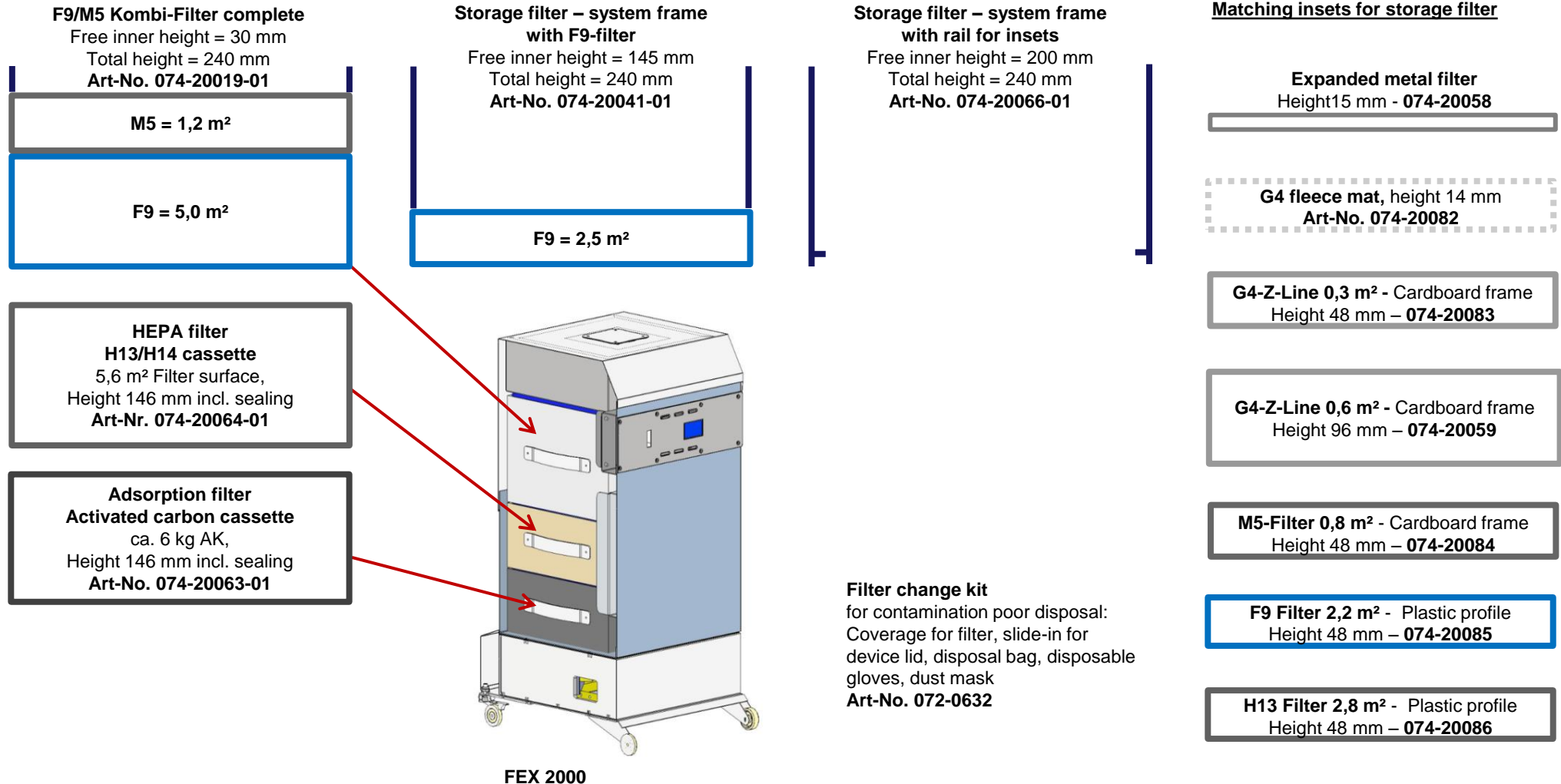
F9 Filter 2,2 m² - Plastic profile
Height 48 mm – 074-20085

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

Replacement filter for FEX 2000

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.



Mobile fume extraction FEX 3000

EVOTEC



- Process-adapted suction system for the extraction of smoke, vapours, aerosols and odours
- Powerful EC-Turbine suitable for continuous 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

In Germany exclusive distribution

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IVH[®] ABSAUGTECHNIK

FEX 3000

1.100 Watt
230 Volt or
110 Volt
10.000 Pa max.
260 m³/h
Storage filter

Available in versions:



*) Certifying in progress

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

High quality standards – suitable for **three-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.

Suction with one or two hoses, hose connection at the back or the sides. Installation of suction arm possible on request.

Modern control technology allows the **continuously variable control** of the suction power during operation.

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.

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

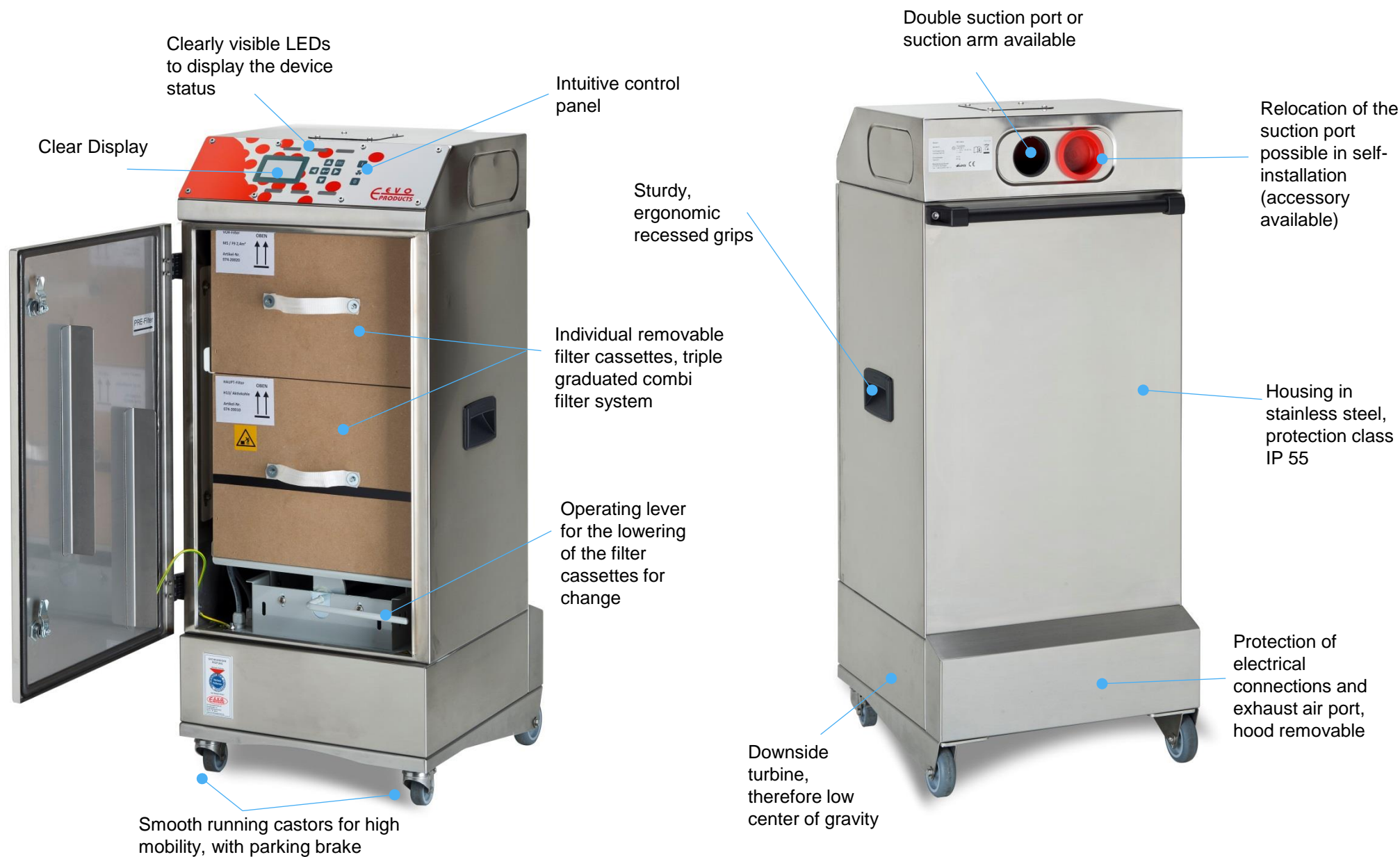
Included in delivery:

Initial equipment set Filter:
- Storage filter M5/F9
- HEPA filter H13/H14
- Activated carbon-Filter

Further suitable accessory like hoses, suction arm and spare filters can be found in the accessory list.

Modell		FEX 3000
Voltage at 50/60 Hz.	Volt	230 (or 110)
Power output	Watt	1.100
Max. air flow free blowing at turbine	m³/h	460
Max. air flow in operation	m³/h	260
Maximal length of suction hose	m	12 (Ø 50 mm)
Max. negative pressure	Pa	10.000
1. Filter step storage filter M5/F9	m²	1,4 + 5,0
2. Filter step HEPA filter H13/H14	m²	5,6
3. Filter step activated carbon	kg	5,8
Sound pressure level	dB(A)	62
Weight	kg	65
Dimensions	mm	430 x 400 x 996
Type of protection		IP 55
Operation temperature	°C	5 – 40
Operating humidity (non condensing)	%	10 – 90%
Quality of stainless steel	VA	1.4301
EX-protection (electrically conductive) 	Art-No.	710-1131
W3-design (Welding fumes)	Art-No.	710-1132





Filter 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.

F9/M5 Kombi-Filter complete

Free inner height = 30 mm

Total height = 240 mm

Art-No. 074-20019-02

M5 = 1,2 m²

F9 = 5,0 m²

Storage filter – system frame with F9-filter

Free inner height = 145 mm

Total height = 240 mm

Art-No. 074-20041-02

F9 = 2,5 m²

Storage filter – system frame with rail for insets

Free inner height = 200 mm

Total height = 240 mm

Art-No. 074-20066-02

Matching insets for storage filter

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

HEPA filter

H13/H14 cassette

5,6 m² Filter surface,
Height 146 mm incl. sealing

Art-No. 074-20064-02

Adsorption filter

Activated carbon cassette

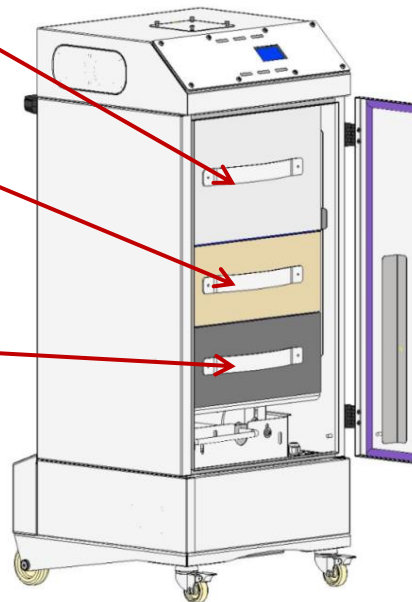
ca. 6 kg AK,
Height 146 mm incl. sealing

Art-No. 074-20063-02 €

Filter change kit

for contamination poor disposal:
Coverage for filter, slide-in for
device lid, disposal bag, disposable
gloves, dust mask

Art-No. 072-0632



FEX 3000

→ for more suitable accessories
please request separate brochure

Central extraction plant EP 2815 – EP 2822

EVOTEC



- For the extraction of free-flowing, dry dusts and fumes during welding, grinding, polishing as well as airborne particles
- Powerful intermediate pressure turbine, can be used in continuous operation (24/7), large air volume
- Frequency converter (FU) for volume flow control
- M-Filter cartridges with automatic filter cleaning
- PreCoat as filter aid agent (optional)
- H-cartridge filter H13/14 (optional)
- EX-protected according to ATEX Zone 22 (optional)

EP 2815

EP 2815-100

EP 2822

1,5 kW to 2,2 kW

400 Volt

8.000 Pa max.

1.000 – 2.500 m³/h

35 liter container

Available in types:



Powerful central extraction plant with high airflow rate for collection and filtration of dry and hazardous dusts.

Optimized for the suction of free-flowing, dry dusts and fumes during welding, grinding, polishing, cutting of metal or plastics or at filling stations.

High quality standards – maintenance free intermediate pressure turbine – **class IE3** - suitable for **continuous operation**. Suitable for the suction of large air volumes for the collection of airborne particles – **e.g. during laser cutting**.

Comfortable lowering of the 35-l-dirt container for easy disposal of the absorbed matter.

Cartridge filter system with robust polyester filter **Dust class M**. Automatic cleaning of the cartridge filters by compressed air. Separate compressed air connection required.

Integrated impact separator for the pre-separation of coarse suction material.

Optional PreCoat dosing unit for the protection of filters against sticky-adherent dusts.

Optional with EX-protection and suitable for the use according to ATEX in Zone 22.

Volume flow control by frequency converter (FU) and (optional) pressure transmitter

By sensors installed in the unit the demand of volume flow is calculated and forwarded to the FU. The FU regulates automatically the matching frequency. By the variation of the frequency, the rotational speed of the three-phase motor is adapted. Therefore the plant works extremely energy-efficient, because it applies only as much energy as needed.

BAUGRUPPEN	EP 2815	EP 2815-100	EP 2822
01. Motor and controlling			
Power output	1 x 1.500 Watt	1 x 1.100 Watt	1 x 2.200 Watt
Voltage	400 V – 3 ~ 50/60 Hz.	400 – 3 ~ 100 Hz	400 – 3 ~ 50/60 Hz.
Max. airflow rate	2.050 m³/h	1.000 m³/h	2.500 m³/h
Max. neg. pressure	3.300 Pa	8.000 Pa	3.500 Pa
Protection type:	IP 54	IP 54	IP 54
Noise level at 50 Hz.	65 dB(A)	65 dB(A)	65 dB(A)
Dimens.: L x W x H *)	74 x 80 x 197-238 cm	74 x 80 x 197-238 cm	74 x 80 x 197-238 cm
Weight ca.	180 kg	180 kg	180 kg
Art-Number:	054-8031	054-8032	054-8033
2. Filter chamber / Disposal unit			
4 x filter cartridge á 2,2 m² dust class M	- M4PF 054-8036	- M4PF 054-8036	- M4PF 054-8036
1 x filter cartridge 10 m² dust class M	-M1PF 054-8037	-M1PF 054-8037	-M1PF 054-8037
UPGRADES			
Dust class H 8,4 m² Filter surface H14	-H 054-8035	-H 054-8035	-H 054-8035
Activated carbon incl. 2 AK-Panels	-AK 054-8034	-AK 054-8034	-AK 054-8034
EX-Schutz acc. to ATEX for Zone 22	-EX 054-8042	-EX 054-8042	-EX 054-8042

*) Height and weight may differ due to the equipment of the device

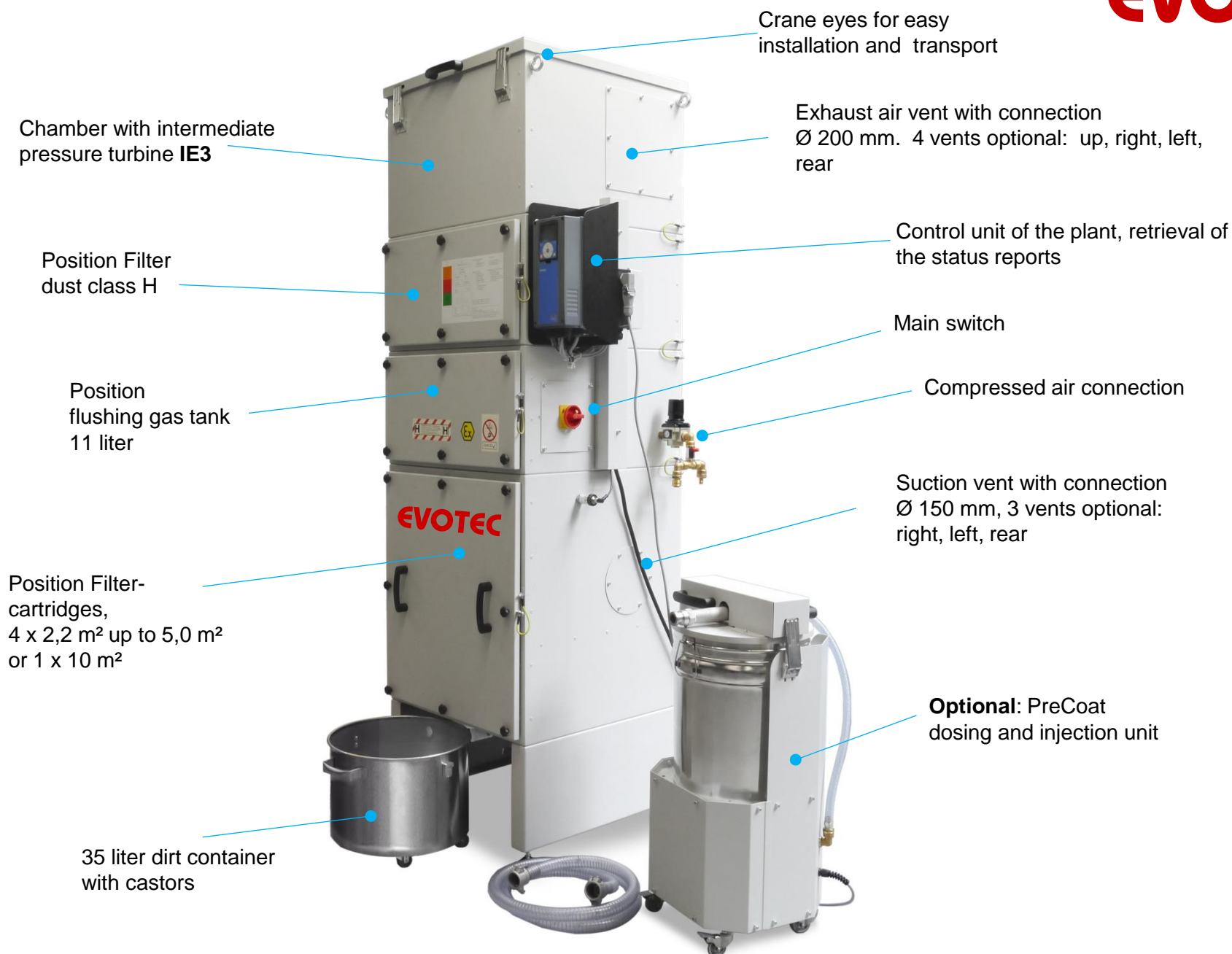
Configure your individual plant from the two assemblies:

- 1. Motor- and controlling components**
- 2. Filter chamber and disposal unit (35 l)**
- 3. Upgrades can be chosen optionally.**





The suction connection Ø 150 mm can be positioned optionally at one of the three vents in the filter chamber.

Also, the exhaust air vent Ø 200 mm can be positioned optionally at one of four vents at the motor head.

Capacity dirt container= 35 liters, optional with fill level control.



Filters and Options

Filter elements	
	<p>Filter cartridge – dust class M for 4-cartridge filter-System Polyester fleece aluminium coated, conic, electrically conductive, Ø 160 mm, round thread Ø 100 mm L 50 mm</p> <p>L 600 mm / 2,2 m² 054-20169</p>
	<p>Filter cartridge – dust class M for 4-cartridge filter-System Polyester fleece with PTFE membrane, conic, electrically conductive, Ø 160 mm, round thread Ø 100 mm L 50 mm</p> <p>L 600 mm / 2,2 m² 054-20170</p>
	<p>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 From 2019 also: L 600 mm / 5,0 m² 054-20178</p>
	<p>PTFE Filter cartridge – dust class M for 4-cartridge filter-System Polyester fleece with PTFE membrane, cylindrical, electrically conductive, Ø 200 mm, round thread Ø 100 mm L 50 mm L 500 mm / 4,2 m² 054-20183 From 2019 also: L 600 mm / 5,0 m² 054-20179</p>

Filter elements	
	<p>Filter cartridge – dust class M for 1-cartridge filter-System Polyester fleece aluminium coated, cylindrical, Length: 600 mm, electrically conductive Ø 328 mm,</p> <p>10,0 m² 054-20189</p>
	<p>PTFE Filter cartridge – dust class M for 1-cartridge filter-System Polyester fleece with PTFE membrane, cylindrical, Length: 600 mm, electrically conductive Ø 328 mm,</p> <p>10,0 m² 054-20190</p>
	<p>Filter cassette – dust class H as replacement for upgrade dust class H Filter cassette 497 x 497 x H150 mm dust class H (H13/H14) with handle and guide rollers</p> <p>8,4 m² 054-70176</p>
	<p>Activated carbon panel as replacement for upgrade AK for adsorption of odours Size: 605x605x32mm for the AK-Module, 2 pcs. are required</p> <p>1 pc. 054-70175</p>

Technical Options



PreCoat dosing unit

Dispenses a filter aid into the suction unit in defined cycles. The filters are coated with a "sacrificial layer". So they are protected against sticky adhesions, which otherwise can not be cleaned off from the filter

The filter life is extended and the filtration result improved.

Dosing unit controlled by compressed air inclusive 20-kg-container with ready for use EVOMIN-PreCoat-powder

054-7500



PreCoat EVOMIN replacement container

Ready for use filled replacement container for PreCoat dosing unit, content 20 kg

054-7501



Shaking unit for filter cartridge

Mechanical shaking unit supports the filter cleaning by mechanical tapping on the filter cartridge

054-3027

Technical Options



Pressure transducer (DMU)

for automatic performance adjustment.

A DMU integrated in the pipeline system monitors the negative pressure inside the plant. When one or more suction vents are opened or closed, the negative pressure in the plant respective the pipeline changes.

The DMU forwards this information to the frequency converter, which adjusts the speed of the turbine to maintain the preset negative pressure (nominal value)

The DMU is efficient and allows a constant, optimal suction effect.

054-8041



Spark arrestor with wire mesh inlay

prevents the suction of sparks into the vacuum cleaner. For the integration in pipeline systems or suction hose

Ø 75 mm	072-0627
Ø 80 mm	072-0628
Ø 100 mm	072-0629
Ø 150 mm	072-0630



Pre-separator

with mineral binding agent.

Helpful when sucking up problematic, sticky dusts.

For the connection to pipeline systems

Ø 120 mm	053-4005
Ø 150 mm	053-4006

Technical Options

	<p>Extension Electro-Box is required, if the standard relay outputs of the frequency converter are not sufficient, e.g. when choosing options like PreCoat-dosing unit, sensors etc.</p> <p>054-8038</p>
	<p>Alert unit For the optical display of alert- and fault messages</p> <p>054-8039</p>
	<p>Remote ON/OFF via cable (FSK) 24 volts with power supply unit (potential free contact), output voltage 24 volts AC with interconnection point, motor protection relay, switch = 0/automatic/hand. If not in combination with FU, additional switch box is needed</p> <p>Without switch box 054-6931 With switch box 054-6932</p>
	<p>Remote ON/OFF via radio (FSF) With hand-held transmitter and receiver, operates up to 350 m distance. If not in combination with FU, additional switch box is needed.</p> <p>Without switch box 054-6933 With switch box 054-6932 Handheld transmitter 054-60322</p>

Dirt container Options

	<p>Spare container or swap container allows easy and fast disposal outside the operation site</p> <p>35 liter 054-3111</p> <p>Matching lid with handle for 35-liter container Ø 400 mm 054-20114</p>
	<p>Plastic disposal bag, antistatic ESD Packing unit = 10 pcs – for the dust-free disposal of dust particles in dust class M and H. Highly stable and “nail tested” Perfect fit due to round bottom (By-Pass not required)</p> <p>35-l-container 235-1011</p>
	<p>Fill level monitor for dirt container Capacitive sensor monitors the fill level of the dirt container. The evaluation is done via SPS and needs to be adapted to the specific application. Processing of the signals in coordination with the customer.</p> <p>universal 054-8040</p>

Central extraction plant EP 2830 – EP 28110

EVOTEC



- Strong suction power - suitable for pipe systems with different openings to the connection
- Powerful intermediate pressure turbine, can be used in continuous operation (24/7), large air volume
- Automatic volume flow regulation by frequency converter and pressure transducer
- Remote ON/OFF
- Practical handheld
- Safety related full equipment



EP 2830
EP 2855
EP 2875
EP 28110

3,0 to 11,0 kW
400 Volt
3.900 bto 6.100 Pa
3.830 to 9.000 m³/h
60 liter container

Available in types:



Powerful central extraction plant with high airflow rate for collection and filtration of dry and hazardous dusts.

Optimized for the suction of free-flowing, dry dusts and fumes during welding, grinding, polishing, cutting of metal or plastics or at filling stations.

High quality standards – maintenance free intermediate pressure turbine – **class IE3** - suitable for **continuous operation**. Suitable for the suction of large air volumes for the collection of airborne particles – **e.g. during laser cutting**.

Comfortable lowering of the dirt container for easy disposal of the absorbed matter.

Cartridge filter system with robust polyester filter **Dust class M**. Automatic cleaning of the cartridge filters by compressed air. Separate compressed air connection required.

Integrated impact separator for the pre-separation of coarse suction material.

Optional PreCoat dosing unit for the protection of filters against sticky-adherent dusts.

Optional with EX-Protection and suitable for the use according to ATEX in Zone 22

Volume flow control by frequency converter (FU) and (optional) pressure transmitter

By sensors installed in the unit the demand of volume flow is calculated and forwarded to the FU. The FU regulates automatically the matching frequency.

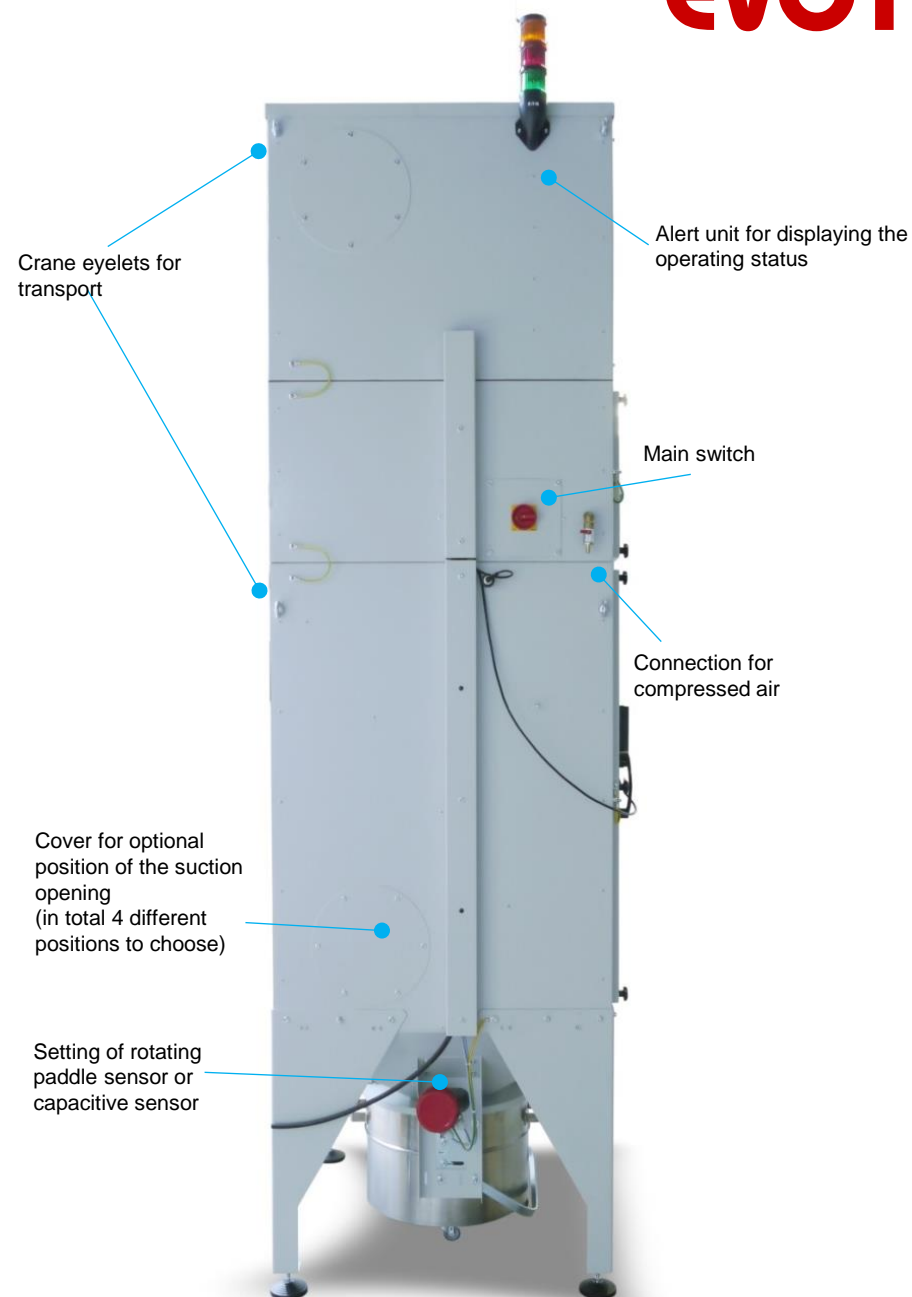
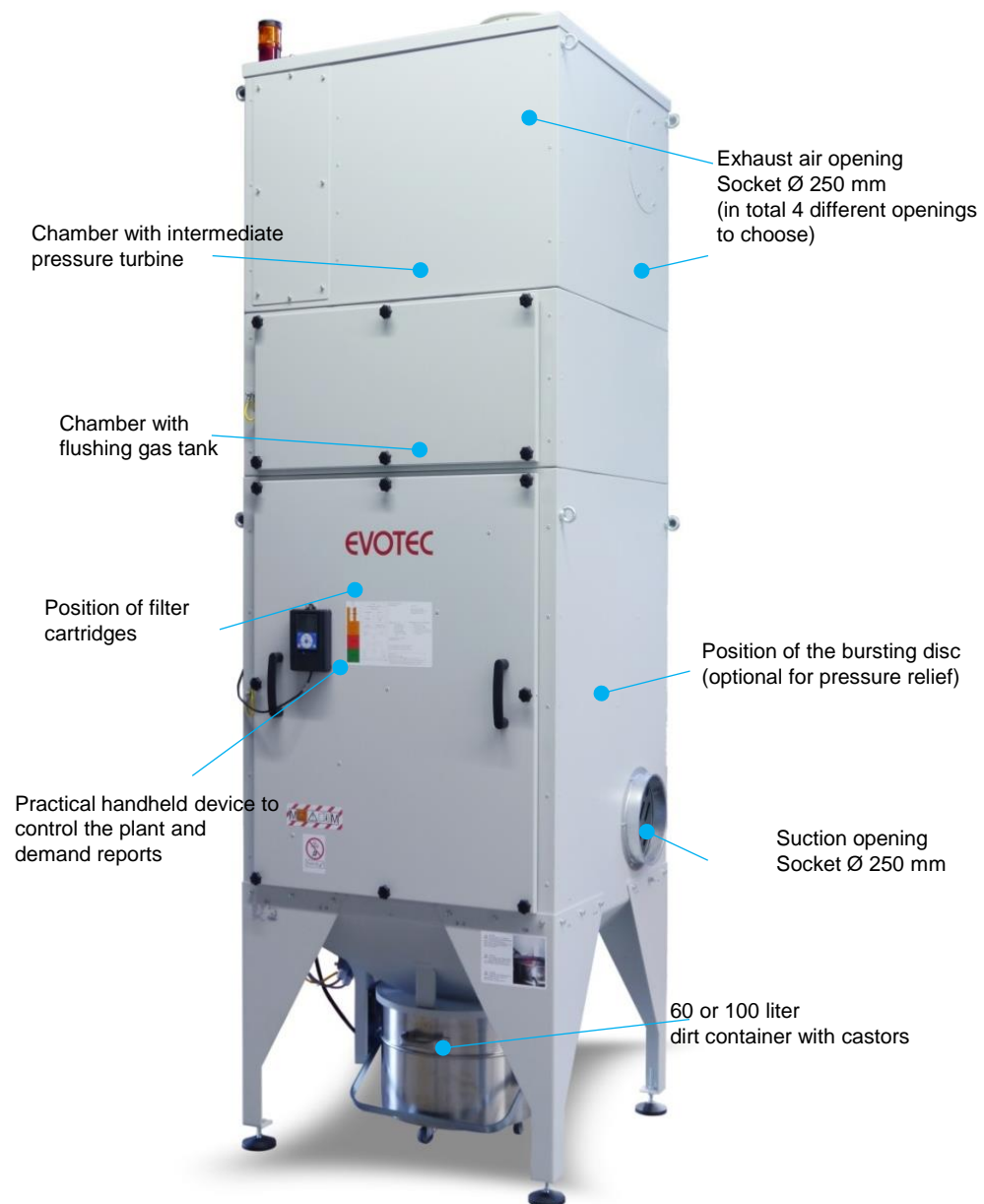
By the variation of the frequency, the rotational speed of the three-phase motor is adapted.

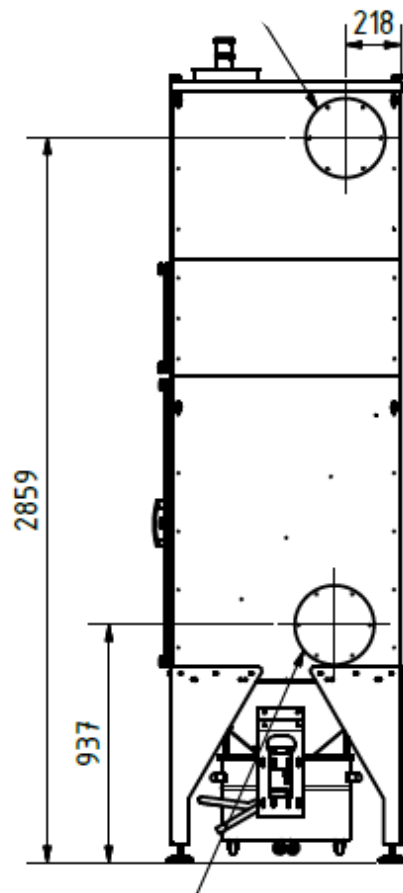
Therefore the plant works extremely energy-efficient, because it applies only as much energy as needed.



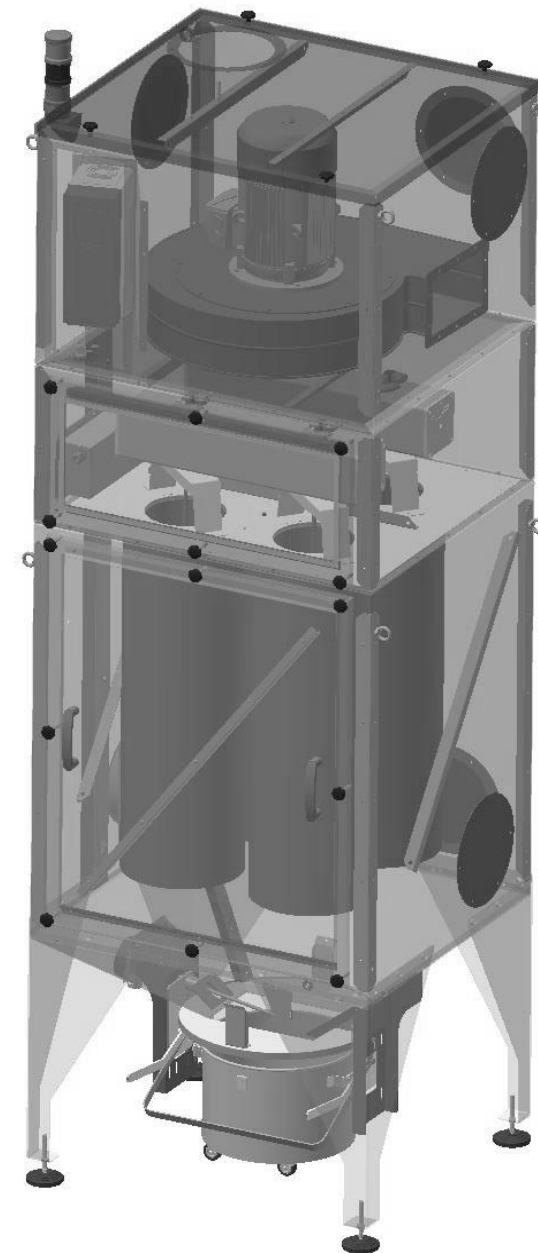
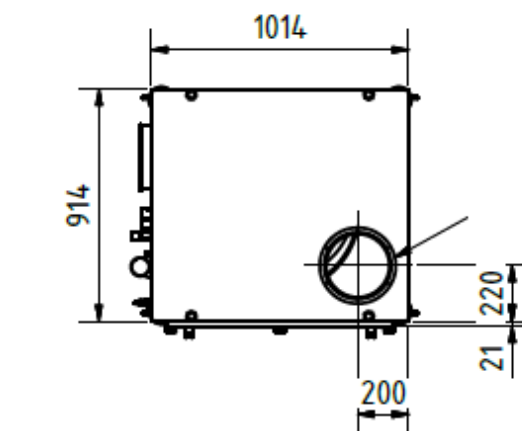
Model		EP 2830-40	EP 2830-64	EP 2855	EP 2875	EP 28110
Voltage	Volts	400	400	400	400	400
Power output	Watts	3,0	3,0	5,5	7,5	11,0
Max. airflow rate.	m³/h	3830	3830	6200	7.200	9.000
Max. neg. pressure	Pa	3900	3900	4500	6.100	6.000
Flushing gas tank	ltr.	2 x 10	2 x 10	2 x 10	2 x 10	2 x 10
Filterf surface „M“	m²	40	64	64	64	64
Dirt container	ltr.	60	60	60	60	60
Protection type		IP 54	IP 54	IP 54	IP 54	IP 54
Noise level at 50 Hz.	dB(A)	68	68	68	72	74
Suction connection	Ø mm	250 mm 4 vents optional	250 mm 4 vents optional	250 mm 4 vents optional	250 mm 4 vents optional	250 mm 4 vents optional
Dimension	cm	92 x 102 x 258	94 x 102 x 310	94 x 102 x 310	94 x 102 x 310	94 x 102 x 310
	Art.-No.	251-4220	251-4221	251-4240	251-4250	251-4260







EP 2855



Filters and options

Filter elements	
	<p>Filter cartridge – dust class M for 4-cartridge filter-System Polyester fleece aluminium coated, conic, electrically conductive, Length 1200 mm</p> <p>10 m² 054-20189 16 m² 054-20153</p>
	<p>Filter cartridge – dust class M for 4-cartridge filter-System Polyester fleece with PTFE membrane, conic, electrically conductive, Length 1200 mm</p> <p>10 m² 054-20190 16 m² 054-20187</p>
	<p>Upgrade – Dust class H additional housing with door and device for filter cassette dust class H (H13 / H14) with handle and guide rollers available up to 5,5 kW</p> <p>054-7330</p>
	<p>Upgrade – Activated carbon for the adsorption of odors additional housing with means for the activated carbon module available up to 3,0 kW</p> <p>054-7320</p>

Options	
	<p>Shaking unit for filter cartridge Mechanical shaking unit supports the filter cleaning by mechanical tapping on the filter cartridge 054-3027</p>
	<p>Spark arrestor with wire mesh inlay Prevents the suction of sparks into the system. For integration in pipe system or suction hose, 520 x 390 mm Ø 250 mm 054-7352</p>
	<p>Spare container or swap body, Ø 500 allows easy and fast disposal outside the operation site, with castor wheels</p> <p>60 liters 054-3210 100 liters 054-3220</p> <p>Matching lid with handle Ø 500 mm 054-20090</p>
	<p>Plastic disposal bag, antistatic ESD Packing unit = 10 pcs - for the dust-free disposal of dust particles in dust class M and H. Highly stable and “nail tested” Perfect fit due to round bottom</p> <p>60-l-container 235-1021 100-l-container 235-1031</p>

Technical options



PreCoat dosing unit

Dispenses a filter aid into the suction unit in defined cycles. The filters are coated with a "sacrificial layer". So they are protected against sticky adhesions, which otherwise can not be cleaned off from the filter

The filter life is extended and the filtration result improved.

Dosing unit controlled by compressed air
inclusive 20-kg-container with ready for use
EVOMIN-PreCoat-powder

054-7500



PreCoat EVOMIN replacement container

Ready for use filled replacement container for
PreCoat dosing unit, content 20 kg

054-7501



Remote ON/OFF via radio (FSF)

With hand-held transmitter and receiver, operates up to 350 m distance.

If not in combination with FU, additional switch box is needed.

Without switch box 054-6933

With switch box 054-6932

Handheld transmitter 054-60322

Notice

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Industrial dust extractor EP 2701 – EP 2702 – EP 2703

EVOTEC



- Parts which coming in contact with the product are made from stainless steel (1.4301)
- Strong suction motors, suitable for permanent operation
- M-Filter cartridges with automatic filter cleaning
- Output of the suction matter in „endless“ plastic disposal bag – ESD or dirt container
- Suction connection 80 mm or 150 mm
- H-Cartridge filter H13/14 (optional)
- EX-protected und therefore suitable for the use according to ATEX in Zone 22 (optional)



EP 2701 EP 2702 EP 2703

1, 2 or 3 Motors with
1.100 Watt each
230 or 400 Volt
10.000 Pa max.
450 – 1.360 m³/h

Available in types:



Powerful central extraction plant with high airflow rate for collection and filtration of dry and hazardous dusts.

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

Critical fine dusts are aspirated and filtered reliably.

Pneumatic filter cleaning via SPS controller. Separate compressed air connection required.

Volume flow stepless adjustable.

1. level filter: dust class M

M-filter cartridges or
M-pocket filter

2. level filter: dust class H

Absolut cartridge filter (H13/H14)
(Upgrade)

Vacuum gauge for filter monitoring

Optional: **Dirt container** or **Longopac-disposal system:**

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

Longopac-hopper with heavy-duty-lid **or** pneumatic actuated output for very light dusts.

Height and weight vary depending on the equipment.

ASSEMBLIES	EP 2701	EP 2702	EP 2703
1. Power output <u>Technical Details:</u> Max. airflow rate Max. neg. pressure Protection type: Noise level Dimensions L x B x H (varies depending equipment) Weight: Art-Number:	1 x 1.100 W 230 V – 1 ~ or 400 V – 3 ~ (N-conductor required) 450 m³/h 10.000 Pa IP 54 If exhaust air connected 72 dB(A) 90 x 72 x 140-230 cm 125 054-8001	2 x 1.100 230 – 1 ~ or 400 – 3 ~ (N-conductor required) 910 m³/h 10.000 Pa IP 54 If exhaust air connected 74 dB(A) 90 x 72 x 140-230 cm 125 054-8002	3 x 1.100 230 – 1 ~ or 400 – 3 ~ (N-conductor required) 1.360 m³/h 10.000 Pa IP 54 If exhaust air connected 74 dB(A) 90 x 72 x 140-230 cm 125 054-8003
2. Filter unit dust classM „M“ – 3 cartridges á 2,2 m² (6,6 m²) „M“ – 1 cartridge (10,0 m²) „M“ – Pocket filter (4,1m²)	-M3PF 054-8004 -M1PF 054-8005 -MTF 054-8006	-M3PF 054-8004 -M1PF 054-8005 -MTF 054-8006	-M3PF 054-8004 -M1PF 054-8005 -MTF 054-8006
3. Filter chamber suction connection Suction inlet Ø 80 mm Suction inlet Ø 150 mm	-D80 054-8009 (-D150 054-8010)	-D80 054-8009 -D150 054-8010	-D150 054-8010
4. Disposal system Longopac-Endless bag with heavy duty lid Longopac-Endless bag with pneumatic actuated output 60 l Dirt container 100 l Dirt container Hopper with universal connection	-LPS 054-8011 -LPP 054-8015 -60L 054-8012 -100L 054-8013 -TU 054-8014	-LPS 054-8011 -LPP 054-8015 -60L 054-8012 -100L 054-8013 -TU 054-8014	-LPS 054-8011 -LPP 054-8015 -60L 054-8012 -100L 054-8013 -TU 054-8014
UPGRADES Dust class„H“-Filter cartridge, 4,3 m² Activated carbon cassette with fill 5,0 kg EX-protection acc. to ATEX Zone 22	-H 054-8007 -AK 054-8008 -EX 054-8042	-H 054-8007 -AK 054-8008 -EX 054-8042	-H 054-8007 -AK 054-8008 -EX 054-8042

Customize your system from the four modules:

- 1. Engine**
- 2. Filter unit**
- 3. Filter chamber / suction connection**
- 4. Disposal system**

Dirt container with separator star



„Endless“-Bag



Exhaust air vent on top



Explanation Details

EVOTEC

Example: EP 2702-M3PF-H-D80-LP

Exhaust air vent Ø 150 mm provides the opportunity to connect 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-design – completely discharging for the use in Zone 22 (Upgrade).

Configure your individual plant from the four assemblies:

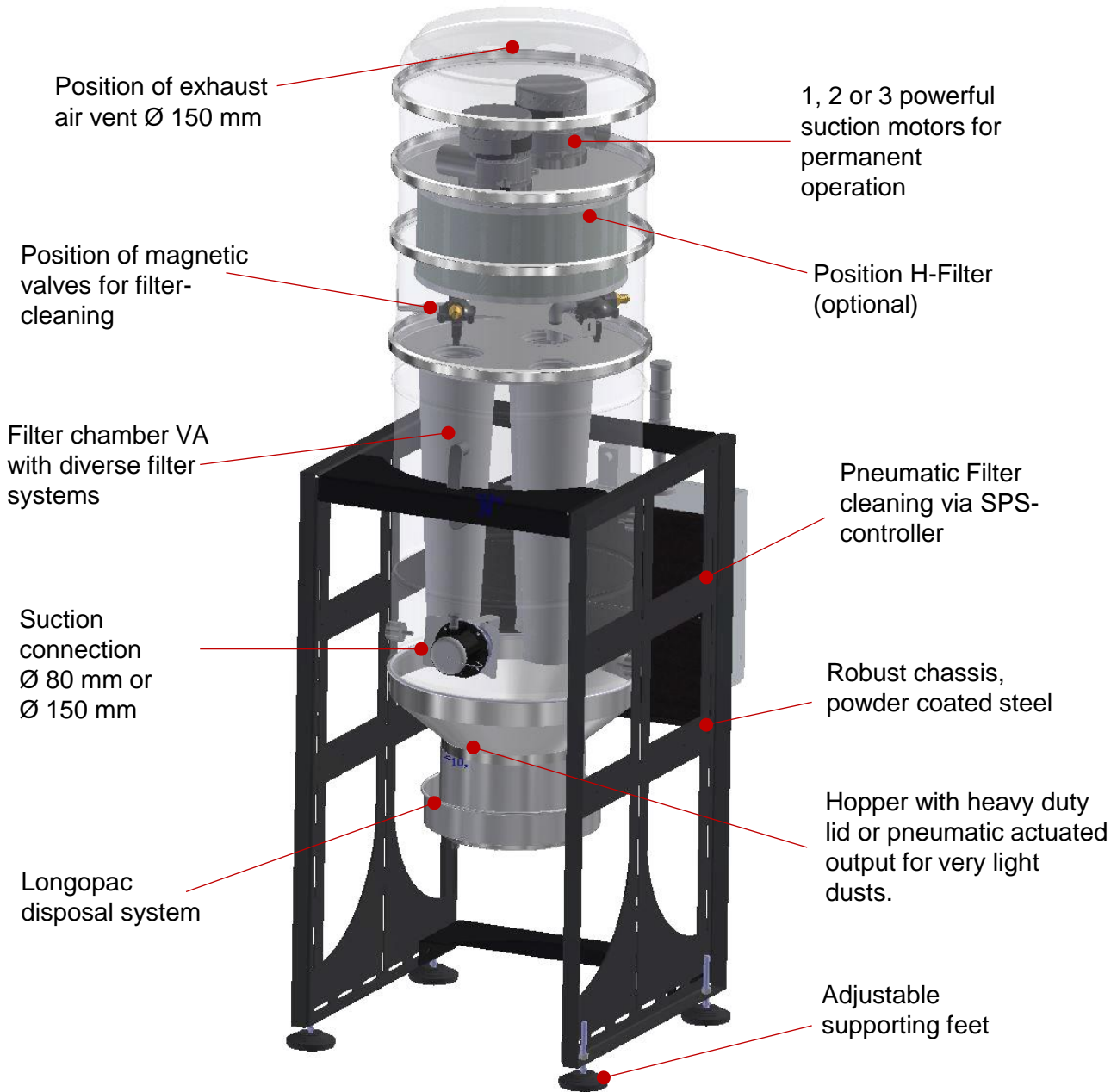
1. Power output
2. Filter components
3. Filter chamber with suction connection
4. Disposal system

Made in Germany

A quality guarantee of which we are proud!
And of course ISO certified.



Example: EP 2702-M3PF-H-D150-60L






Filter and options

Filter elements	
	Filter cartridge – dust class M for 3-cartridge filter-System Polyester fleece aluminium coated, conic, electrically conductive, Ø 160 mm, round thread Ø 100 mm L 50 mm L 500 mm / 2,2 m² 054-20165 Only with filter chamber Ø 150 mm (054-8010): L 600 mm / 2,2 m² 054-20169
	Filter cartridge – dust class M for 3-cartridge filter-System Polyester fleece with PTFE membrane, conic, electrically conductive, Ø 160 mm, round thread Ø 100 mm L 50 mm L 500 mm / 2,2 m² 054-20166 Only with filter chamber Ø 150 mm (054-8010): L 600 mm / 2,2 m² 054-20170
	Filter cartridge – dust class M for 3-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 Only with filter chamber Ø 150 mm (054-8010): L 600 mm / 5,0 m² 054-20178
	PTFE Filter cartridge – dust class M for 3-cartridge filter-System Polyester fleece with PTFE membrane, cylindrical, 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

Filter elements	
	Filter cartridge – dust class M for 1-cartridge filter-System Polyester fleece aluminium coated, cylindrical, Length: 600 mm, electrically conductive Ø 328 mm, 10,0 m² 054-20110
	PTFE Filter cartridge – dust class M for 1-cartridge filter-System Polyester fleece with PTFE membrane, cylindrical, Length: 600 mm, electrically conductive Ø 328 mm, 10,0 m² 054-20146
	Pocket filter – dust class M 4,1 m² Filter surface, 20 pockets Material: PUR-Coating NOVATES 4,1 m² 054-20108
	Dust class H (H14) - Absolut-cartridge filter Glass fibre, double sided support grid, Ø 500 mm as replacement for H-Upgrade 4,3 m² 054-20033

Technical Options

	<p>PreCoat dosing unit</p> <p>Dispenses a filter aid into the suction unit in defined cycles. The filters are coated with a "sacrificial layer". So they are protected against sticky adhesions, which otherwise can not be cleaned off from the filter</p> <p>The filter life is extended and the filtration result improved.</p> <p>Dosing unit controlled by compressed air inclusive 20-kg-container with ready for use EVOMIN-PreCoat-powder</p> <p>054-7500</p>
	<p>PreCoat EVOMIN replacement container</p> <p>Ready for use filled replacement container for PreCoat dosing unit, content 20 kg</p> <p>054-7501</p>
	<p>Alert unit</p> <p>For the optical display of alert- and fault messages</p> <p>054-8039</p>


Filter, Spark protection and Pre-separators

	<p>Spark arrestor with wire mesh inlay</p> <p>prevents the suction of sparks into the vacuum cleaner.</p> <p>Diverse diameter for the integration in pipeline systems or suction hose</p> <p>Ø 80 mm 072-0628 Ø 100 mm 072-0629 Ø 150 mm 072-0630</p>
	<p>Pre-separator</p> <p>with mineral binding agent.</p> <p>Helpful when sucking up problematic, sticky</p> <p>For the connection to pipeline systems</p> <p>Ø 150mm</p> <p>Ø 120 mm 053-4005 Ø 150 mm 053-4006</p>
	<p>Remote ON/OFF via cable (FSK)</p> <p>24 volts with power supply unit (potential free contact), output voltage 24 volts AC with interconnection point, motor protection relay, switch = 0/automatic/hand.</p> <p>If not in combination with FU, additional switch box is needed</p> <p>Without switch box 054-6931 With switch box 054-6932</p>
	<p>Remote ON/OFF via radio (FSF)</p> <p>With hand-held transmitter and receiver, operates up to 350 m distance.</p> <p>If not in combination with FU, additional switch box is needed.</p> <p>Without switch box 054-6933 With switch box 054-6932 Handheld transmitter 054-60322</p>

Dirt container Options

	<p>Spare container or swap body, Ø 500 allows easy and fast disposal outside the operation site, with castor wheels</p> <p>60 liters 054-3210 100 liters 054-3220</p> <p>Matching lid with handle Ø 500 mm 054-20090</p>
	<p>Plastic disposal bag, antistatic ESD Packing unit = 10 pcs - for the dust-free disposal of dust particles in dust class M and H. Highly stable and "nail tested" Perfect fit due to round bottom</p> <p>60-l-container 235-1021 100-l-container 235-1031</p>
	<p>Separator element for dirt container Avoids the hovering of very light suction matter, incl. earthing cable Suitable for dirt container Ø 500 mm.</p> <p>for 60-l-Behälter 054-30121 for 100-l-Behälter 054-30122</p>
	<p>Fill level monitor for dirt container Capacitive sensor monitors the fill level of the dirt container. The evaluation is done via SPS and needs to be adapted to the specific application. Processing of the signals in coordination with the customer.</p> <p>universal 054-8040</p>

Options

	<p>Additional suction connection for cleaning machines or the environment</p> <p>Different designs possible: e.g. Fork at the pipe system with ball valve connection for 3,5 m suction hose Ø 50 mm including connection fittings universal</p>
 	<p>Machine cleaning kit for the cleaning of production machines, complete antistatic</p> <p>Bulk suction nozzle, inclined tube rubber nozzle, pointed rubber nozzle, Ø 50 mm</p> <p>052-1071</p>
 	<p>Industrial floor cleaning kit for the cleaning of all floors, complete antistatic. Multi-part hand tube Ø 50 mm, metal revolving nozzle, brush strips, width 370 mm</p> <p>052-1041</p>
 <p>Example</p>	<p>Distribution plate Ø 150 mm Round plate with up to four welded connections, clamping ring and sealing ring Diameter of the connections individual</p> <p>054-8016</p>

High performance integrated suction devices

EVOTEC



- Small and compact, perfect for build-in solutions
- Modular system allows multiple equipment variations
- Strong suction performance
- Options available:
 - Noise absorption hood
 - Various turbines
 - Frequency converter
 - Automatic filter dedusting
 - Castor wheels

EP 1415
EP 2415
EP 2422

1.500 to 2.200 watt
230 or 400 volt
135 to 330 m³/h
180 to 300 mbar
30 l container

Available in types:



Compact build-in devices
stainless steel dirt container,
usable for **nearly all operational
purposes in industry and craft.**

The side channel blower is usable
for long term use, even in **three-
shift-operation.**

Durable polyester-needle felt-filter
(PNF) – powerful for long-time
performance.

Ideal for the use:

At conveyors (e.g. granulates
etc.) for vacuum generation and
filtration of residual dusts.

Integration in production- and
manufacturing processes to
generate vacuum.

Usage as silent unit for
installation under the working
desk at goldsmiths,

dental labs or while engraving.

Continuous suction of dusts from
producing or packaging
machines.

**Please request our detailed
brochure to learn more about
possible options as well as
connection hoses and
accessory.**



Figure e.g.:
EP 2422 with
castors, noise
absorption hood,
frequency converter
and alert unit.

Basic types		EP 1415	EP 2415	EP 2422
Voltage	volt	230	400	400
Power output	watt	1.500	1.500	2.200
Max. airflow rate	m³/h	220	220	330
Neg. pressure	mbar	200 / 240 max.	200 / 240 max.	240 / 300 max.
Filter surface PNF	m²	0,4	0,4	0,4
Dirt container	l	30	30	30
Type of protection		IP 55	IP 55	IP 55
Suction connection	Ø mm	60	60	60
Dimensions	cm	80x80x45	80x80x45	80x80x45
Weight	kg	40	40	49
	Art.-No.	151-2030	251-2090	251-2060

Suction hose and additional accessory optional available.



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 94/9/EG.

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 contradict. 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 expressly 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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