

EVOTEC



Dust Extractor
EP 2701/2702/2703



INNOVATIVE
EXTRACTION
TECHNOLOGY

Industrial dust extractor EP 2701 – EP 2702 – EP 2703

EVOTEC



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

EP 2701
EP 2702
EP 2703

Versions:



Detail explanation

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

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

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

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

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

Configure your individual plant from following assemblies:

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



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

Position of exhaust air vent Ø 150 mm

Position of magnetic valves for filter cleaning

Filter chamber VA with various filter systems

Pneumatic filter cleaning via SPS control system

Longopac disposal system (Endless bag)

Adjustable feet

1, 2 or 3 powerful vacuum motors for permanent operation

Position H-Filter (optional)

Vacuum connection Ø 80 mm or Ø 150 mm (Variable through reduction)

Robust chassis, powder-coated steel, RAL 7035, optional ESD

Hopper with: Heavy duty flap or pneumatically operated discharge for very light dusts



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

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

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

Critical fine dusts are reliably aspirated and filtered.

Pneumatic filter cleaning via SPS controller.

Volume flow stepless adjustable.

1st filter stage: Dust class M

M-cartridge filter or
M-pocket filter

2nd filter stage: Dust class H

Absolute cartridge filter (H13/14)
(Upgrade)

Filter differential pressure measurement for filter monitoring included.

Optional **dirt container or Longopac disposal system:**

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

Longopac hopper with:

Heavy duty flap or

pneumatically operated discharge for very light dusts.

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

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

The operating point varies due to the power setting and pipe design (Ø, length) as well as measurement at the suction point.

**) Regarded to the standard version, varying according to equipment.

EP 2701 to EP 2703

Control technology:

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

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

Options:

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



Easy to operate control system

Optional with text display



Filter state monitoring (DDMU)

Filters and options EP 2701 to EP 2703







Filter elements for EP 2701 to EP 2703	
	<p>Filter cartridge – Dust class M for 3 cartridges filter system, polyester fleece, aluminium coated, cylindrical, electrically conductive Ø 200 mm, round thread Ø 100 mm, L 50 mm L 500 mm / 4,2 m² 054-20182 Only with vacuum conn. Ø 150 mm (054-8010) L 600 mm / 5,0 m² 054-20178</p>
	<p>PTFE-Filter cartridge – Dust class M for 3 cartridges filter system, polyester fleece PTFE coated, cylindrical, electrically conductive Ø 200 mm, round thread Ø 100 mm, L 50 mm L 500 mm / 4,2 m² 054-20183 Only with vacuum conn. Ø 150 mm (054-8010) L 600 mm / 5,0 m² 054-20179</p>
	<p>Filter cartridge – Dust class M for 1 cartridge filter system, polyester fleece, aluminium coated, cylindrical, electrically conductive Length: 600 mm, Ø 328 mm 10,0 m² 054-20110</p>
	<p>PTFE-Filter cartridge – Dust class M for a cartridge filter system, polyester fleece PTFE coated, cylindrical, electrically conductive, installation on the clean gas side Length: 600 mm, Ø 328 mm, 10,0 m² 054-20146</p>

Filters and options for EP 2701 to EP 2703	
	<p>Pocket filter – Dust class M 4,1 m² filter area, 20 pockets Material: PUR-Coating NOVATES 4,1 m² 054-20108</p>
	<p>Dust class H (H14) – Absolut cartridge filter Glass fibre, support grid on both sides, Ø 500 mm for further purchase for H-Upgrade 4,3 m² 054-20033</p>
	<p>Vibratory motor for filter cleaning Supports filter cleaning by additional mechanical vibration, ideal for critical dusts that change their aggregate state. (Incl. extension module control) 054-8016</p>
	<p>DDMU Differential pressure transducer For monitoring negative pressure and filter states. 054-60486</p>

Accessories and options EP 2701 to EP 2703



Control technology EP 2701 to EP 2703	
	<p>Signal indicator tower, 24 V For optical reproduction of warning and fault messages.</p> <p>054-8046</p>
	<p>10-pole plug connection Additional seperable plug connection as a communication interface</p> <p>053-0067</p>
	<p>16-pole plug connection Additional seperable plug connection as a communication interface</p> <p>053-0085</p>
	<p>Text display control Text display to control the monitor of operating states and control the system</p> <p>054-60523</p>

Disposal options EP 2701 to EP 2703					
	<p>Plastic disposal bag, antistatic ESD VE = 10 pieces </p> <p>for dust-free disposal of dust classes M and H. Extremely stable and „nail test“-tested. Perfect fit due round bottom design – by-pass not necessary!</p> <p>Suitable for:</p> <table data-bbox="1621 699 2018 751"> <tr> <td>60-l container =</td> <td>235-1021</td> </tr> <tr> <td>100-l container =</td> <td>235-1031</td> </tr> </table>	60-l container =	235-1021	100-l container =	235-1031
60-l container =	235-1021				
100-l container =	235-1031				
	<p>Longopac disposal</p> <p>„Endless“ bag for simple and dust-free disposal of material. 20 meter film hose with cable ties for sealing.</p> <p>VE = 4 units á 20 metres</p> <p>Strong ESD quality Strength: 68 mic.  235-1050</p> <p>Strong quality (not ESD) Strength: 68 mic. 235-1060</p>				

Options EP 2701 – EP 2702 – EP 2703

Dirt container options EP 2701 to EP 2703	
	<p>Spare or replaceable container Ø 500 enables simple and quick disposal outside of site, with swivel castors</p> <p>60 litres 054-3210 100 litres 054-3220</p> <p>Matching lid with handles Ø 500 mm 054-20090</p>
	<p>Separating insert for dirt container Avoids hovering of very light suction matter, incl. earthing cable. Suitable for dirt container Ø 500 mm.</p> <p>für 60-l container 054-30121 für 100-l container 054-30122</p>
	<p>Level monitoring for dirt container Capacitive sensor monitors the level of the dirt container. The evaluation takes place via SPS and must be adapted to a customer-specific application.</p> <p>054-8040</p>
	<p>Remote ON/OFF via radio With hand transmitter and receiver, works with a range up to 350 m. If not in combination with frequency inverter a switch box is required.</p> <p>Without switch box 054-6933 With switch box 054-6932 Hand transmitter 054-60322</p>

Notes

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