

EVOTEC



Dry Vacuum EP 2155 2175 ECO



INNOVATIVE
EXTRACTION
TECHNOLOGY



EP Dry vacuum– 400 Volt



- ★ Parts in contact with the product made of V2A stainless steel (1.4301)
- ★ Fully equipped for safety
- ★ Strong vacuum power, also suitable for pipe systems
- ★ Convenient dirt container lowering
- ★ Optional available with Longopac-disposal
- ★ With star-delta smooth start of the turbine
- ★ Zone 21 on request

EVOTEC

EP 2155
EP 2175 ECO

Versions:



EP Dry vacuum– 400 Volt

EVOTEC



Robust industrial vacuum cleaners for vacuuming all dry dusts - from coarse dirt to micro particles (µm)

High quality standards - Well-designed, soundproofed and maintenance-free turbine (side channel blower) as vacuum generator. **Suitable for 3-shift operation.**

Cyclone separator for better pre-separation of fine dusts and coarse material.

Effective, easy-to-use **filter cleaning** for long working intervals without interruption. **Vacuum gauge** for filter monitoring.

1st Filter stage:

Dust class M Resistant polyester needle felt filter with **PUR membrane**, high filtering power for long service life.

2nd Filter stage:

Dust class H
Absolute cartridge filter (H14).

Patented tool-free and **low-contamination filter change.**



Rotation direction phase monitor and vacuum limiting valve **for trouble-free use of the unit.**

Quick coupling with lock and turning device for safe connection of the hose.

Length connection cable: 8 m

On request also with Longopac disposal system: "Endless" plastic bag for easy and low-contamination disposal of the material.



Model		EP 2155	EP 2175 ECO
Voltage	Volt	400	
Engine power	Watt	5.500	7.500
Max. air volume	m³/h	510	700
Negative pressure	mbar	320 / 360 max.	260 / 320 max.
Filter area „M“	m²	3,2	
Filter area „H“ (H14)	m²	+ 4,3	
Dirt container	ltr.	100	
Protection class		IP 55	
Noise level	dB(A)	76	78
Vacuum connection	Ø mm	80	
Dimensions LxWxH	cm	148 x 68 x 156	
Weight	kg	200	210
Dust class M	Item-No.	251-1090	251-3000
Dust class M/Typ22 	Item-No.	251-1091	251-3001
Dust class H	Item-No.	251-1092	251-3002
Dust class H/Typ22 	Item-No.	251-1093	251-3003

Scope of delivery EP 2155 includes:

5,0 m hose Ø 50 mm and scoring nozzle
(please note, EP 2175 ECO without accessories)



Accessories and options EVOTEC vacuum cleaners



Pocket and cartridge filters	
	<p>Dust class M robust polyester needle felt with PTFE membrane Non-stick property - for sticky or adhesive dusts Heat resistant short term (30 min.) up to 200 °C Continuous up to 150 °C</p> <p>3,20 m², Ø 500 mm = 054-20117 5,20 m², Ø 500 mm = 054-20118</p>
	<p>Dust class M Polyester needle felt with antistatic PUR membrane Antistatic - for the extraction of dusts that can become statically charged (installed as standard in EVOTEC units)</p> <p>3,20 m², Ø 500 mm = 054-20129 5,20 m², Ø 500 mm = 054-20130</p>
	<p>Dust class H (H14) Absolute cartridge filter for all EVOTEC models Support grille on both sides, Replacement filter for repurchasing</p> <p>4,3 m², Ø 500 mm = 054-20033</p>

Disposal options	
	<p>Plastic waste disposal bags, antistatic ESD  PU = 10 pieces for the dust-free disposal of dust of the dust classes M and H. Extremely stable and "nail-test"-tested. Perfect fit due to round base design - by-pass not necessary! Suitable for:</p> <p>100-l-Container = 235-1031</p>
 	<p>Longopac - Bags „Endless" bag for easy and dust-free disposal of the material. 20 metre foil tube with cable ties for sealing. PU = 4 units á 20 meters Strong ESD quality Thickness: 68 mic. 235-1050 Strong quality (not ESD) Thickness: 68 mic. 235-1060</p> <p><i>Optionally with horizontal tensioner (prevents the bag from floating up)</i></p>

Practical accessory sets EP 2155

Machine cleaning Set

optimal for cleaning
of production machines, completely antistatic

Consisting of mass vacuum nozzle,
inclined pipe rubber nozzle, pointed rubber nozzle

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



Industrial floor cleaning set

for the cleaning of all floors,
completely antistatic



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

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



Height cleaning set

For cleaning at height, e.g. of supply pipes

consisting of 4 hand tubes Ø 40 mm, each 500 mm long (052-1100 including
connector from Ø 40 to Ø 50 mm),

pipe elbow nozzles 100 mm and 200 mm,
and a wall and floor nozzle

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



YouTube



On our YouTube channel you will find helpful application
videos for industrial floor cleaning.

(All Ø specifications refer to the hose inner diameter)

PP-Hoses and - components

Hose material Polypropylene (PP), antistatic, with matching connection sleeves.
Best suitable material for industrial use.

	<p>PP-Hose antistatic, complete with fittings</p> <p>3,5 m long Ø 40 mm = 052-0151 3,5 m long Ø 50 mm = 052-0248 5 m long Ø 40 mm = 052-0152 5 m long Ø 50 mm = 052-0249</p>
	<p>Linear Meter, antistatic (for extension or self-assembly)</p> <p>Ø 40 mm = 052-0130 Ø 50 mm = 052-0230</p>
	<p>Hose sleeve (vacuum side) for PP-Hose antistatic</p> <p>Ø 40 mm = 052-0140 Ø 50 mm = 052-0240</p>
	<p>Hose sleeve (boiler side) for PP-Hose antistatic Including retaining ring</p> <p>Ø 80 - 40 mm = 052-0159 Ø 80 - 50 mm = 052-0256</p>

Superflex hoses and - components

Hose material made of polypropylene (PP), thread-reinforced and spiral-supported
Particularly light and flexible even over longer distances. Best suitable material for industrial use. Conductive = conductive when the spiral is grounded

	<p>Superflex-Hose, conductive, complete with sleeves</p> <p>3,5 m Ø 40 mm = 052-0153 3,5 m Ø 50 mm = 052-0250 5 m Ø 40 mm = 052-0154 5 m Ø 50 mm = 052-0251</p>
	<p>Linear Meter, conductive (for extension or self-assembly)</p> <p>Ø 40 mm = 052-0133 Ø 50 mm = 052-0233 Ø 60 mm = 054-90037</p>
	<p>Hose sleeve (vacuum side) for Superflex-Hose antistatic</p> <p>Ø 40 mm = 052-0139 Ø 50 mm = 052-0239</p>
	<p>Hose sleeve (boiler side) including retaining ring for Superflex-Hose antistatic</p> <p>Ø 80 - 40 mm = 052-0158 Ø 80 - 50 mm = 052-0255</p>

(All Ø specifications refer to the hose inner diameter)


PUR-hoses and - components


Hose material: polyurethane (PUR). Reinforced by integrated steel spiral. Oil resistant, very stable and suitable for abrasive dusts. Heat resistant to 125°C. Highly suitable material for extreme industrial use.


Conductive = Conductive when the spiral is grounded

	PUR- hose, conductive, complete with sleeves
	3,5 m long Ø 40 mm = 052-0155 3,5 m long Ø 50 mm = 052-0252 5 m long Ø 40 mm = 052-0156 5 m long Ø 50 mm = 052-0253

Running metre, conductive
(for extension or self-assembly)

	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


	Hose sleeve (vacuum side) for PUR-Hose antistatic
	Ø 40 mm = 052-0141 Ø 50 mm = 052-0241 Ø 70 mm = 052-0311

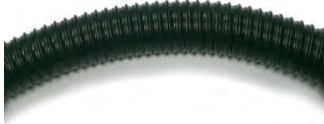
	Hose sleeve (boiler side) for PUR-Hose antistatic Including retaining ring
	Ø 80 - 40 mm = 052-0160 Ø 80 - 50 mm = 052-0257


ESD-hoses and - components


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

Completely electrically conductive 10³ to 10⁴ Ω

	ESD-Superflex-Hose
	Completely electrically conductive 10 ⁴ Ω light and flexible, spiral-supported and thread-reinforced Ø 40 mm = 052-0200 Ø 50 mm = 052-0287

	ESD-PUR-Hose
	Completely electrically conductive 10 ³ Ω robust and spiral supported Ø 40 mm = 052-0196 Ø 50 mm = 052-0281

	Hose sleeve (vacuum side) for ESD-Superflex-Hose antistatic
	Ø 40 mm = 052-0139 Ø 50 mm = 052-0239
	for ESD-PUR-Hose antistatic
	Ø 40 mm = 052-0141 Ø 50 mm = 052-0241

	Hose sleeve (boiler side) Including retaining ring for ESD-Superflex-Hose antistatic
	Ø 80 - 40 mm = 052-0158 Ø 80 - 50 mm = 052-0255
	for ESD-PUR-Hose antistatic
	Ø 80 - 40 mm = 052-0160 Ø 80 - 50 mm = 052-0257

Accessories and options

Metal-hoses and- components

Hose material metal, metal tapes with sealing threads, flexible, axial mobility, torsional stability, heat resistant to 400° C.

Only suitable for dry dust

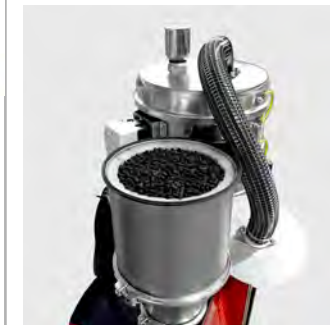
	<p>Metal hose, glass thread sealed, complete with sleeves</p> <p>3,5 m length Ø 40 mm = 052-0186 3,5 m length Ø 50 mm = 052-0271 5 m length Ø 40 mm = 052-0187 5 m length Ø 50 mm = 052-0272</p>
	<p>Linear metres (for extension or self-assembly)</p> <p>Ø 40 mm = 052-0185 Ø 50 mm = 052-0270</p>
	<p>Universal trousers sleeve (boiler side) suitable for all hose qualities</p> <p>Ø 80 - 40 mm = 052-0175 Ø 80 - 50 mm = 052-0266</p>
	<p>Hose sleeve (vacuum side) for Metal - Hose</p> <p>Ø 40 mm = 052-0112 Ø 50 mm = 052-0208</p>

Device options



Activated carbon filter module
for absorbing odours and vapours. 4,3 kg activated carbon.
Suitable for all models with turbine chassis, illustration is an example

053-2060



Cartridge filter system with compressed aircleaning



Cartridge filter system with automatic compressed air cleaning

Filter area 3 x 4.2 m² Dust class M, electrically conductive. The combination with Dust class H is possible.

Ideal for automatic and continuous cleaning of the filter cartridge during the vacuuming of fine or sticky dust.

The cleaning cycles of the automatic control system can be defined according to requirements. The system cleans the filter elements in the cartridge with compressed air blasts **without having to switch off the vacuum cleaner.**

Attention: external compressed air required (operating pressure 6 - 8 bar)

Scope of delivery includes: compressed air reservoir, volume expansion, control unit, cartridge filter, cleaning unit (multi jet nozzles)

053-3032

Replacement filter for later purchase Filter cartridge - Dust class M

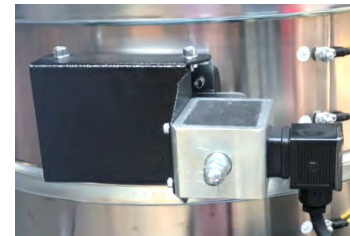
Polyester fleece Aluminium-coated, cylindrical, electrically conductive (3 pieces are required) L 500 mm / 4,2 m² **054-20182**



When ordering in combination with Vacon-FI 10% discount



Filter cleaning options



Atmospheric pulse Cleaning (PPU)

Sudden atmospheric pressure cleans the pockets/folds of the filter at defined intervals, including automatic control

For pocket or cartridge filters

1,75 m² to 10 m²

053-3025

This requires a volume expansion:

For container Ø 400 mm, height 150 mm

053-3028

For container Ø 500 mm, height 150 mm

053-3029

→ When ordering in combination with Vacon-FI 10% discount



Electromechanical filter cleaning

The filter is cleaned automatically when the vacuum is switched off. The pockets or folds of the filter are vibrated by a shaker motor and the dust is shaken off, controlled by time relays.

Universal

053-3027

→ When ordering in combination with Vacon-FI 10% discount



Control options

	<p>Frequency inverter (FI) for stepless speed regulation and increase of efficiency and performance of the turbine.</p> <p>Functions FI Esco:</p> <ul style="list-style-type: none"> - Speed control - Remote ON/OFF <p>4,0 kW – 5,5 kW 054-6944 7,5 kW – 15 kW 054-6945</p>
	<p>Functions FI Vacon:</p> <ul style="list-style-type: none"> - Speed control - Remote ON/OFF - Atmospheric pressure cleaning - PID control - Level control - Operating hours counter - Vibrator motor control - Automatic filter cleaning - Cartridge filter cleaning <p>4,0 kW - 5,5 kW 054-6941 7,5 kW – 15 kW 054-6942</p> <p>The FI takes over control functions. The corresponding hardware must be ordered separately as an option.</p>

Control options

	<p>Remote ON/OFF via cable (FSK) 24 Volt with power supply unit (potential-free contact), output voltage 24 Volt AC with transfer point, motor protection relay, switch = 0/Automatic/Manual.</p> <p><u>If not in combination with FI, FSK needs its own switch box.</u></p> <p>Without Switch box 054-6931 With Switch box 054-6930 Bracket console Switch box 054-40208</p>
	<p>Remote ON / OFF via Radio (FSF) Including handheld transmitter and receiver, works to 350 m range</p> <p><u>If not in combination with FI, FSK needs its own switch box.</u></p> <p>With out Switch box 054-6933 with Switch box 054-6932 Bracket console Switch box 054-40208</p> <p>Additional handheld transmitter 054-60322</p>

Options

<h2>Dry pre-seperator</h2>	
	<p>Pre-separator with Longopac disposal system Stainless steel container with Longopac disposal system for easy pre-separation of the material. "Endless" bag for easy and low-contamination disposal.</p> <p>Mit Rohrbogen-Anschlussstutzen</p> <p>1 x Ø 60 mm 053-2032 2 x Ø 50 mm 053-2033</p> <p><u>Suitable vacuum and connection hoses for pre-separators can be found online.</u></p>
	<p>Filter pre-separator V2A 60 litres dirt container with simple lever lowering for convenient disposal of the material. Robust barge chassis including accessory basket. Connection pipe Ø 80 mm</p> <p>Dust class M incl. pocket filter 2.2 m² filter area 053-2030</p> <p>Suitable absolute filter cartridge Dust class H - 2,0 m² Filter area 054-20027</p> <p><u>Suitable vacuum and connection hoses for pre-separators can be found online.</u></p>

<h2>Wet pre-seperator</h2>	
	<p>Pre-separator 100 Liters Completely made of stainless steel with 4 swivel castors.</p> <p>Various connecting bends:</p> <p>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</p> <p><u>Attention:</u> Vacuum hose requires two muffs on the vacuum side.</p> <p>Float system for pre-separators for vacuuming of liquids 053-1051</p> <p>Drain hose for pre-separator universally suitable 053-3010</p> <p><u>Suitable vacuum and connection hoses for pre-separators can be found online.</u></p>
	<p>Wet pre-separator V2A 140 litres dirt container V2A with robust tilting chassis.</p> <p>Drain hose for easy disposal of liquids. Including float system for pre-separator Connecting elbow Ø 60 and inlet bend Ø 50 mm</p> <p><u>Attention: The vacuum hose to be used requires two muffs on the vacuum side!</u></p> <p>053-1070</p>

Options

	<p>Container with hinged floor 1000 liters With Ø 80 connections For pre-separation of solids (e.g. peat, earth, sand, etc.) Tension springs dampen the bottom flap during the emptying process</p> <p>Automatic closing of the bottom flap during settling Unlocking by cable from the forklift seat Chain protection against slipping off the tines</p> <p style="text-align: right;">053-2020</p>
 	<p>Barrel pre-separator 210 Litres 210 litres standard drum powder coated, diameter 595 mm, height 860 mm, universal use as pre-separator with vacuum connections Ø 40 mm = 053-1043 Ø 50 mm = 053-1044</p> <p>Float system for pre-separators Universal fit, also suitable for the kit 053-1051</p> <p>Or only as kit for drum pre-separator for self-installation, with vacuum connections Ø 40 mm = 053-1041 Ø 50 mm = 053-1042</p>

	<p>Pre-separator</p> <p>Big bag silo pre-separator For the pre-separation of solids (e.g. peat, soil, sand, etc.).</p> <p>Pre-separator container with hopper and heavy-duty flap. Connection bends 2 x Ø 100 mm</p> <p style="text-align: right;">053-2050</p> <p>Optionally available in other versions: Various discharge options</p> <ul style="list-style-type: none"> - Heavy - duty flap - Rotary valve - Butterfly valve. <p>Various connections and Ø sizes available on request.</p>
	<p>Tipping container pre-separator 500 litres With Ø 80 connections For pre-separation of solids and liquids. Tipping at any height by cable pull from the forklift seat. Stable base frame with drive-in pockets, favourable load centre of gravity. Secured against unintentional slipping and tipping out</p> <p style="text-align: right;">053-2010</p>

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