

# EVOTEC



EP 2122

EP 2130

EP 2140 ECO

EP 2155 ECO



INNOVATIVE  
EXTRACTION  
TECHNOLOGY



# EP Dry vacuum – 400 Volt

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- ★ Parts in contact with the product made of V2A stainless steel (1.4301)
- ★ Side channel blowers for continuous operation and EX protection
- ★ Fully equipped for safety
- ★ Convenient dirt container lowering (optional with Longopac-disposal)
- ★ Zone 21 on request

EP 2122  
EP 2130  
EP 2140 ECO  
EP 2155 ECO

Versions:



Until 3,0 kW:



As of 4,0 kW:



# EP Dry vacuum – 400 Volt

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**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.

**Scope of delivery includes:**  
3,5 m hose Ø 50 mm and scoring nozzle

Model		EP 2122	EP 2130	EP 2140 ECO	EP 2155 ECO
Voltage	Volt	400		400 *)	
Engine power	Watt	2.200	3.000	4.000	5.500
Max. air volume	m³/h	330		410	500
Negative pressure	mbar	240 / 300 max.	260 / 340 max.	240 / 300 max.	260 / 320 max.
Filter area „M“	m²	2,2 or 3,2		3,2	
Filter area „H“ (H14)	m²	+ 2,0		+ 4,3	
Dirt container	ltr.	60			
Protection class		IP 55			
Noise level	dB(A)	70		76	
Vacuum connection	Ø mm	80			
Dimensions LxWxH	cm	120 x 68 x 135			
Weight	kg	150	160	180	190
Dust class <b>M</b>	I.-No.	<b>251-1040</b>	<b>251-1050</b>	<b>251-1060</b>	<b>251-1070</b>
Dust c. <b>M/Typ22</b> 	I.-No.	<b>251-1041</b>	<b>251-1051</b>	<b>251-1061</b>	<b>251-1071</b>
Dust class <b>H</b>	I.-No.	<b>251-1042</b>	<b>251-1052</b>	<b>251-1062</b>	<b>251-1072</b>
Dust c. <b>H/Typ22</b> 	I.-No.	<b>251-1043</b>	<b>251-1053</b>	<b>251-1063</b>	<b>251-1073</b>
<b>Upgrade:</b>					
<b>100-I</b> dirt container	I.-No.	<b>053-4042</b>			



\*) Direct start-up (optionally available with star-delta smooth start 054-6935)






# Accessories and options EVOTEC vacuum cleaners



Pocket filters and cartridge filters	
(When subsequently changing from 2.2 m <sup>2</sup> to 3.2 m <sup>2</sup> , the filter basket must also be replaced)	
	<p><b>Dust class M</b>  <b>robust</b> polyester needle felt with PTFE membrane  <b>Non-stick property</b> - for sticky or adhesive dusts  <b>Heat resistant</b> short term (30 min.) up to 200 °C                      Continuous up to 150 °C</p> <p>2,20 m<sup>2</sup>, Ø 500 mm = <b>054-20116</b>                      3,20 m<sup>2</sup>, Ø 500 mm = <b>054-20117</b>                      5,20 m<sup>2</sup>, Ø 500 mm = <b>054-20118</b></p>
	<p><b>Dust class M</b>                      Polyester needle felt with <b>antistatic PUR membrane</b>  <b>Antistatic</b> - for the extraction of dusts that can become statically charged (<b>installed as standard in EVOTEC units</b>)</p> <p>2,20 m<sup>2</sup>, Ø 500 mm = <b>054-20128</b>                      3,20 m<sup>2</sup>, Ø 500 mm = <b>054-20129</b>                      5,20 m<sup>2</sup>, Ø 500 mm = <b>054-20130</b></p>
	<p><b>Dust class H (H14)</b></p> <p><b>Absolute cartridge filter for all EVOTEC models</b>                      Support grille on both sides,                      Replacement filter for repurchasing</p> <p>2,0 m<sup>2</sup>, Ø 500 mm = <b>054-20027</b>                      4,3 m<sup>2</sup>, Ø 500 mm = <b>054-20033</b></p>

Disposal	
	<p> <b>Plastic waste disposal bags, antistatic ESD</b>                      PU = 10 pieces</p> <p>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>60-l-Container = <b>235-1021</b></p>

# Options

Device options	
	<p><b>Activated carbon filter module</b> for absorbing odours and vapours. 4,3 kg activated carbon. Suitable for all models with turbine chassis, illustration is an example.</p> <p><b>053-2060</b></p> 
	<p><b>Hose holder</b> Suitable for all models with 60 litre dirt containers.</p> <p><b>For 10 m hose</b> <b>053-3070</b></p>

## Cartridge filter system with compressed aircleaning



### Cartridge filter system with automatic compressed air cleaning

Filter area 3 x 4.2 m<sup>2</sup> 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 extraction 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)

### For Models

EP 2122, EP 2130, EP 2140 ECO, EP 2150 ECO  
**053-3033** (incl. switch cabinet)

### 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 m<sup>2</sup> **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 m<sup>2</sup> to 10 m<sup>2</sup>

**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><b>Frequency inverter (FI)</b> for stepless speed regulation and increase of efficiency and performance of the turbine.</p> <p><b>Functions FI Esco:</b></p> <ul style="list-style-type: none"> <li>- Speed control</li> <li>- Remote ON/OFF</li> </ul> <p>1,5 kW – 3,0 kW                      <b>054-6943</b>                  4,0 kW – 5,5 kW                      <b>054-6944</b></p>
	<p><b>Functions FI Vacon:</b></p> <ul style="list-style-type: none"> <li>- Speed control</li> <li>- Remote ON/OFF</li> <li>- Atmospheric pressure cleaning</li> <li>- PID control</li> <li>- Level control</li> <li>- Operating hours counter</li> <li>- Vibrator motor control</li> <li>- Automatic filter cleaning</li> <li>- Cartridge filter cleaning</li> </ul> <p>1,5 kW - 3.0 kW                      <b>054-6940</b>                  4,0 kW - 5,5 kW                      <b>054-6941</b></p> <p>The FI takes over control functions. The corresponding hardware must be ordered separately as an option.</p>

### Control options

	<p><b>Remote ON/OFF via cable (FSK)</b>                  24 Volt with power supply unit (potential-free contact), output voltage 24 Volt AC with transfer point, motor protection relay, switch = 0/Automatic/Manual.  <u>If not in combination with FU, FSK needs its own switch box.</u></p> <p><b>Without Switch box                      054-6931</b>  <b>With Switch box                          054-6930</b>                  Bracket console Switch box        <b>054-40208</b></p>
	<p>Upgrade soft start with star-delta contactor combination up to 5.5 kW        <b>054-6935</b></p>
	<p><b>Remote ON / OFF via Radio (FSF)</b>                  Including handheld transmitter and receiver, works to 350 m range  <u>If not in combination with FU, FSK needs its own switch box.</u></p> <p><b>With out Switch box                      054-6933</b>  <b>with Switch box                          054-6932</b>                  Bracket console Switch box        <b>054-40208</b></p> <p>Additional handheld transmitter    <b>054-60322</b></p>



## Dry pre-seperator



### 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.

With pipe bend connection piece  
1 x Ø 60 mm **053-2032**

2 x Ø 50 mm **053-2033**

Suitable vacuum and connection hoses for pre-separators can be found online.



### 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

**Dust class M**  
incl. pocket filter 2.2 m<sup>2</sup> filter area  
**053-2030**

**Suitable absolute filter cartridge** Dust class H -  
2,0 m<sup>2</sup> Filter area  
**054-20027**

Suitable vacuum and connection hoses for pre-separators can be found online.

## Wet pre-seperator



### Pre-separator 100 Litres

Completely made of stainless steel with 4 swivel castors.

Various connecting 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: Hose requires two muffs on the vacuum side.

### Float system for pre-separators

for vacuuming of liquids **053-1051**

**Drain hose for pre-separator**  
universally suitable **053-3010**

Suitable vacuum and connection hoses for pre-separators can be found online.



### Wet pre-separator V2A

140 litres dirt container V2A with robust tilting chassis.

Drain hose for easy disposal of liquids.

Including float system for pre-separator

Connecting elbow Ø 60 and inlet bend Ø 50 mm

Attention: The vacuum hose to be used requires two muffs on the vacuum side!

**053-1070**

Suitable vacuum and connection hoses for pre-separators can be found online.

## Practical accessory sets

### 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><b>PP- Hose</b> antistatic, complete with fittings</p> <p>3,5 m lang Ø 40 mm = <b>052-0151</b>          3,5 m lang Ø 50 mm = <b>052-0248</b>          5 m lang Ø 40 mm = <b>052-0152</b>          5 m lang Ø 50 mm = <b>052-0249</b></p>
	<p><b>Linear Meter, antistatic</b> (for extension or self-assembly)</p> <p>Ø 40 mm = <b>052-0130</b>          Ø 50 mm = <b>052-0230</b></p>
	<p><b>Hose sleeve (Vacuum side)</b> for <b>PP-Hose</b> antistatic</p> <p>Ø 40 mm = <b>052-0140</b>          Ø 50 mm = <b>052-0240</b></p>
	<p><b>Hose sleeve (boiler side)</b> for <b>PP- Hose</b> antistatic Including retaining ring</p> <p>Ø 80 - 40 mm = <b>052-0159</b>          Ø 80 - 50 mm = <b>052-0256</b></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><b>Superflex-Hose,</b> conductive, complete with sleeves</p> <p>3,5 m Ø 40 mm = <b>052-0153</b>          3,5 m Ø 50 mm = <b>052-0250</b>          5 m Ø 40 mm = <b>052-0154</b>          5 m Ø 50 mm = <b>052-0251</b></p>
	<p><b>Linear Meter, conductive</b> (for extension or self-assembly)</p> <p>Ø 40 mm = <b>052-0133</b>          Ø 50 mm = <b>052-0233</b>          Ø 60 mm = <b>054-90037</b></p>
	<p><b>Hose sleeve (Vacuum side)</b> for <b>Superflex- Hose</b> antistatic</p> <p>Ø 40 mm = <b>052-0139</b>          Ø 50 mm = <b>052-0239</b></p>
	<p><b>Hose sleeve (boiler side)</b> including retaining ring for <b>Superflex-Hose</b> antistatic</p> <p>Ø 80 - 40 mm = <b>052-0158</b>          Ø 80 - 50 mm = <b>052-0255</b></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**

	<p><b>PUR- hose, conductive, complete with sleeves</b></p> <p>3,5 m lang Ø 40 mm = <b>052-0155</b>          3,5 m lang Ø 50 mm = <b>052-0252</b>          5 m lang Ø 40 mm = <b>052-0156</b>          5 m lang Ø 50 mm = <b>052-0253</b></p> <p><b>Running metre, conductive</b> (for extension or self-assembly)</p>
	<p>Ø 40 mm = <b>052-0136</b>          Ø 50 mm = <b>052-0236</b>          Ø 70 mm = <b>052-0309</b></p> <p><b>reinforced version:</b></p> <p>Ø 40 mm = <b>052-0157</b>          Ø 50 mm = <b>052-0254</b>          Ø 70 mm = <b>052-0310</b></p>
	<p><b>Hose sleeve (vacuum side) for PUR-Hose antistatic</b></p> <p>Ø 40 mm = <b>052-0141</b>          Ø 50 mm = <b>052-0241</b>          Ø 70 mm = <b>052-0311</b></p>
	<p><b>Hose sleeve (boiler side) for PUR-Hose antistatic Including retaining ring</b></p> <p>Ø 80 - 40 mm = <b>052-0160</b>          Ø 80 - 50 mm = <b>052-0257</b></p>

## 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 10<sup>3</sup> to 10<sup>4</sup> Ω**

	<p><b>ESD-Superflex-Hose</b></p> <p>Completely electrically conductive 10<sup>4</sup> Ω light and flexible, spiral-supported and thread-reinforced</p> <p>Ø 40 mm = <b>052-0200</b>          Ø 50 mm = <b>052-0287</b></p>
	<p><b>ESD-PUR-Hose</b></p> <p>Completely electrically conductive 10<sup>3</sup> Ω robust and spiral supported</p> <p>Ø 40 mm = <b>052-0196</b>          Ø 50 mm = <b>052-0281</b></p>
	<p><b>Hose sleeve (vacuum side)</b></p> <p>for <b>ESD-Superflex-Hose</b> antistatic</p> <p>Ø 40 mm = <b>052-0139</b>          Ø 50 mm = <b>052-0239</b></p> <p>for <b>ESD-PUR-Hose</b> antistatic</p> <p>Ø 40 mm = <b>052-0141</b>          Ø 50 mm = <b>052-0241</b></p>
	<p><b>Hose sleeve (boiler side) Including retaining ring</b></p> <p>for <b>ESD-Superflex-Hose</b> antistatic</p> <p>Ø 80 - 40 mm = <b>052-0158</b>          Ø 80 - 50 mm = <b>052-0255</b></p> <p>for <b>ESD-PUR-Hose</b> antistatic</p> <p>Ø 80 - 40 mm = <b>052-0160</b>          Ø 80 - 50 mm = <b>052-0257</b></p>

## Notes

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