

# EVOTEC



## **Compressed air Industrial Vacuum Cleaner EP 312-60**



**INNOVATIVE  
EXTRACTION TECHNOLOGY**



## EP Compressed air dry vacuum

# EVOTEC



- ★ Parts in contact with the product made of V2A stainless steel (1.4301)
- ★ Powerful compressed-air ejectors with silencers
- ★ **ATEX marking:**  
 **EX II 2 GD c IIB TX**  
suitable for zone 1 and 2 as well as zone 21 and 22 tested by IBExU
- ★ Fully equipped for safety
- ★ Convenient dirt container lowering for easy disposal

### EP 312-60

#### Versions:

Zone 1 + 2

Zone 21 + 22



# EP Compressed air dry vacuum

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**Powerful compressed air vacuum cleaner to vacuum all dry dust particles – from coarse dirt to fine dust ( $\mu\text{m}$ )**

**High quality standards**– well designed, powerful **compressed-air ejectors with silencer** for the secure usage even in explosive areas (Zones 1/2 and 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 Filter stage:** Pocket filter with PUR-membrane, **Dust class M**.

**2nd Filter stage:** Absolut-cartridge filter, **Dust class H (H14)**.

**Alternative as an**

**Upgrade:** Cartridge filter system with manual atmospheric pressure cleaning (**PFA m. ADA**).

Effective, easy-to-use **filter cleaning** for high filter power and long working 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 hose.

**When used in a zone:** Includes **ESD rollers and grounding terminal**

for potential bonding  
Length: 2 m

**Attention:** external compressed air required (operating pressure 6 - 10 bar).

| Model                                                                                                   |                 | EP 312-60 Dry vacuum        |
|---------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|
| Compressed air ejectors                                                                                 | Number          | 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                   |
| Filter area „M“<br>Filter area „H“ (H14)                                                                | m²<br>m²        | 2,2 or 3,2<br>+ 2,0         |
| Dirt container                                                                                          | ltr.            | 60                          |
| Vacuum connection                                                                                       | Ø mm            | 80                          |
| Noise level                                                                                             | dB(A)           | 78                          |
| Dimensions LxWxH                                                                                        | cm              | 83 x 68 x 140               |
| Weight                                                                                                  | kg              | 100                         |
| Dust class <b>M</b>                                                                                     | <b>Item-No.</b> | <b>151-1082</b>             |
| Dust class <b>H</b>                                                                                     | <b>Item-No.</b> | <b>151-1083</b>             |
| Dust class <b>M</b>  | <b>Item-No.</b> | <b>151-1084</b>             |
| <b>Zone 1, 2, 21, 22</b>                                                                                |                 |                             |
| Dust class <b>H</b>  | <b>Item-No.</b> | <b>151-1085</b>             |
| <b>Zone 21, 22</b>                                                                                      |                 |                             |
| <b>Upgrade PFA m. ADA</b>                                                                               | <b>Item-No.</b> | <b>053-3003</b>             |

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



# Filters and Accessories

**EVOTEC**

## 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)



**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

2,20 m<sup>2</sup>, Ø 500 mm = **054-20116**  
 3,20 m<sup>2</sup>, Ø 500 mm = **054-20117**



**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**)

2,20 m<sup>2</sup>, Ø 500 mm = **054-20128**  
 3,20 m<sup>2</sup>, Ø 500 mm = **054-20129**



### Dust class H (H14)

**Absolute cartridge filter for all EVOTEC models**  
 Support grille on both sides,

Replacement filter for repurchasing  
 2,0 m<sup>2</sup>, Ø 500 mm = **054-20027**

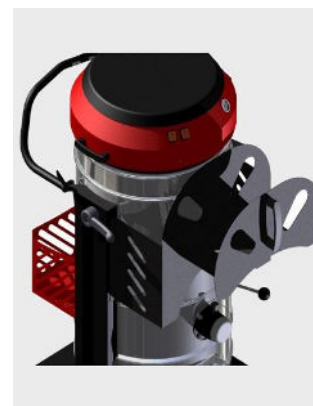
## Accessories



**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:

60-l-Container = **235-1021**



**Hose holder**

Suitable for all models with 60 litre dirt containers.

**For 10 m hose**  
**053-3070**

(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.



### PP-Hose antistatic, complete with fittings

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**



### Linear Meter, antistatic (for extension or self-assembly)

Ø 40 mm = **052-0130**  
Ø 50 mm = **052-0230**



### Hose sleeve (vacuum side) for PP-Hose antistatic

Ø 40 mm = **052-0140**  
Ø 50 mm = **052-0240**



### Hose sleeve (boiler side) for PP-Hose antistatic Including retaining ring

Ø 80 - 40 mm = **052-0159**  
Ø 80 - 50 mm = **052-0256**

## 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



### Superflex-Hose, conductive, complete with sleeves

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**



### Linear Meter, conductive (for extension or self-assembly)

Ø 40 mm = **052-0133**  
Ø 50 mm = **052-0233**  
Ø 60 mm = **054-90037**



### Hose sleeve (vacuum side) for Superflex-Hose antistatic

Ø 40 mm = **052-0139**  
Ø 50 mm = **052-0239**



### Hose sleeve (boiler side) including retaining ring for Superflex-Hose antistatic

Ø 80 - 40 mm = **052-0158**  
Ø 80 - 50 mm = **052-0255**

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



**ESD-Superflex-hose**

Completely electrically conductive 10<sup>4</sup> 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<sup>3</sup> 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**

(All Ø specifications refer to the hose inner diameter)

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

## 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.



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