



# EVOTEC Product range

Mobile industrial  
vacuum cleaner





## 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 25 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 and 22 !**

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## EVO ECODust



# NEW

(Details on P. 11)

### Application videos

New films are added constantly.

Visit our YouTube Channel

**EVOTEC Industriesauger**

(<http://www.youtube.com/user/EVOTECIndSauger?feature=watch>)



Articles from which you can find videos in our channel, are marked with this symbol!

## Decision support

Which vacuum cleaner fits for which application?

### Which type of suction material ?

Solids	
Dust ( <b>normal</b> ) Environmental dirt	EP 1036
Dust ( <b>fine</b> )	Class „M“ - Dry vacuum cleaner 230 V - Dry vacuum cleaner 400 V - Robusto
Dust ( <b>very fine</b> ) and/or health hazardous	Class „H“ - Dry vacuum cleaner 230 V - Dry vacuum cleaner 400 V - Robusto
Explosive materials ( <b>fine</b> dust)	Class „M/Type 22“ - Compact 15/Type 22 - Dry vacuum cleaner 400 V - Compressed air cleaner - Robusto
Explosive materials ( <b>very fine</b> dust)	Class „H/Type 22“ - Dry vacuum cleaner 400 V - Compressed air cleaner - Robusto
<b>Asbestos-Dust</b>	Class „H/Asbestos“ - EP 2122-35 H/Asbestos - Robusto Asbestos

Liquids	
Many or only liquids	- EP 1036 - EP 1024 Pump
Liquids (mixed with swarf)	-Swarf vacuum cleaner
Critical liquids	- Compressed air cleaner

**This is a decision tool and does not replace professional advice.**

**We can help to find the best option for you, depending on your requirements.**

# Robusto – Line 4000 – 400 volt – with dirt container

# EVOTEC

## EP 4130

## EP 4155

3.000 and 5.500 watt  
400 volt  
260 to 340 mbar  
330 to 500 m³/h  
With dirt container

Robust  
basic equipment

### Optional:

Vacuum limit valve  
Phase monitor

# NEW

Available in versions :





# Robusto – Line 4000 – 400 volt – Longopac system

**EVOTEC**

## EP 4130-LP

## EP 4155-LP

3.000 and 5.500 watt  
400 volt  
260 to 340 mbar  
330/500 m³/h  
Longopac-System for  
dust-free disposal

Robust  
basic equipment

### Optional:

Vacuum limit valve  
Phase monitor

**NEW**

Available in versions :



## Robusto – Line 4000 – 400 volt

# EVOTEC

**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** on AC. Can also be used on pipe systems or with very long hoses.

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

**Equipped with crane eyes** for easy transport, e.g. on construction sites.

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

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

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

**Sturdy polyester needle felt filter with PUR membrane**, dust class M certified according to EN 60335-2-69, powerful for long-time performance. Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk**.

**Optional:** phase direction monitor, vacuum limit valve.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose. Length of the connection cable: 8m.

**Suitable hoses and nozzles** you can find in our wide-ranging accessory.

Type		EP 4130	EP 4130-LP	EP 4155	EP 4155-LP
Voltage	volt	400	400	400	400
Power output	watt	3.000	3.000	5.500	5.500
max. air flow rate	m³/h	330	330	500	500
max. neg. pressure	mbar	260 / 340 max.	260 / 340 max.	260 / 340 max.	260 / 340 max.
Filter surface „M“	m²	1,75	1,75	2,2 (optional 3,3)	2,2 (optional 3,3)
Diameter of container	mm	Ø 400	Ø 400	Ø 500	Ø 500
Type of protection		IP 55	IP 55	IP 55	IP 55
Suction Connection	Ø mm	80	80	80	80
Dimension	cm	94 x 60 x 120	94 x 60 x 163	110 x 68 x 130	110 x 68 x 173
Weight	kg	142	142	195	195
Disposal		Container	Longopac	Container	Longopac
Dirt container <b>35 liter</b>	Art.-No.	<b>251-4140</b>	--	--	--
Dirt container <b>60 liter</b>	Art.-No.	--	--	<b>251-4160</b>	--
Dirt container <b>100 liter</b>	Art.-No.	--	--	<b>251-4170</b>	--
with <b>Longopac-System</b>	Art.-No.	--	<b>251-4150</b>	--	<b>251-4180</b>

# Robusto – Class H/**Asbestos** – 400 volt – Longopacsystem

**EVOTEC**

**EP 2115 AS-LP**  
**EP 2130 AS-LP**  
**EP 2155 AS-LP**  
**EP 2175 AS-LP**

1.500 to 7.500 watt  
 400 volt  
 200 to 380 mbar  
 220 to 510 m³/h  
 Longopac-System for  
 dust-free disposal

**complete set of  
 safety features**

**Asbestos-cleaner:**  
 Distribution through  
 exclusive partners

**NEW**

Available in versions :





# Robusto – Class H/**Asbestos** – 400 volt – with dirt container

**EVOTEC**

**EP 2115 AS**  
**EP 2130 AS**  
**EP 2155 AS**  
**EP 2175 AS**

1.500 to 7.500 watt  
 400 volt  
 200 to 380 mbar  
 220 to 510 m³/h  
 with dirt container

**complete set of  
 safety features**

**Asbestos-cleaner:**  
 Distribution through  
 exclusive partners

**NEW**

Available in versions :



# Robusto – Class H/**Asbestos** – 400 volt

**EVOTEC**

**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** on AC. Can also be used on pipe systems or with very long hoses.

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

**Equipped with crane eyes** for easy transport, e.g. on construction sites.

Easy disposal of the suction material with **low contamination** by

**Longopac system** („Endless bag“ which is to be pulled down as needed.)

Alternating: **Easy operated lowering** of the dirt container for **easy disposal** of the absorbed matter.

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

**1st level filter:** pocket filter with PUR-membrane, **dust class M**

**2nd level filter:** „Absolut“-cartridge filter, **dust class H (H14)**

All filters are certified according to EN 60335-2-69.

Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk** – easy and safe for staff and maintenance service.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose. Length of the connection cable: 8m.

**Included in delivery:** 3,5 m suction hose and crevice nozzle  
Ø 40 mm for EP 2115 AS / Ø 50 mm for EP 2122 AS and EP 2130 AS.

**ASBESTOS-construction includes:** 5,0 m outlet air hose Ø 70 mm

**Distribution of asbestos-cleaners through exclusive partners** possessing black zone according to TRGS 519.

Type		EP 2115 AS	EP 2130 AS	EP 2155 AS	EP 2175 AS	EP 2115 AS-LP	EP 2130 AS-LP	EP 2155 AS-LP	EP 2175 AS-LP
Voltage	Volt	400	400	400	400	400	400	400	400
Power output	Watt	1.500	3.000	5.500	7.500	1.500	3.000	5.500	7.500
max. air flow rate	m³/h	220	330	480	510	220	330	480	510
max. neg. Pressure	mbar	200 / 240 max.	240 / 340 max.	260 / 340 max.	340 / 380 max.	200 / 240 max.	240 / 340 max.	260 / 340 max.	340 / 380 max.
2 filter stages dust class <b>H</b>	m²	1,75 (M) + 1,7 (H)	1,75 (M) + 1,7 (H)	3,2 (M) + 4,3 (H)	5,2 (M) + 4,3 (H)	1,75 (M) + 1,7 (H)	1,75 (M) + 1,7 (H)	3,2 (M) + 4,3 (H)	5,2 (M) + 4,3 (H)
Disposal	liter	35	35	100	100	Longopac	Longopac	Longopac	Longopac
Type of protection		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
Suction Connection	Ø mm	80	80	80	80	80	80	80	80
Dimension		94 x 60 x 120h	94 x 60 x 120h	110 x 68 x 152h	110 x 68 x 152h	94 x 60 x 163h	94 x 60 x 163h	110 x 68 x 173h	110 x 68 x 173h
Weight	kg	140	140	195	215	140	140	195	215
Dust class „H“ Dust class „H/Asbestos“		<b>251-4090</b> <b>251-4091</b>	<b>251-4110</b> <b>251-4111</b>	<b>251-4120</b> <b>251-4121</b>	<b>251-4130</b> <b>251-4131</b>	<b>251-4092</b> <b>251-4093</b>	<b>251-4112</b> <b>251-4113</b>	<b>251-4122</b> <b>251-4123</b>	<b>251-4132</b> <b>251-4133</b>

## Dry vacuum cleaner – 230 volt – 25 liter-container

**EVO ECOdust 1200 \*)**

**EVO ECOdust 2400**

1.200 to 2.400 watt

230 volt

165 to 330 m³/h

210 mbar

25 liter container

1200-watt suitable for

**Asbestos-extraction \*)**



Available in versions :



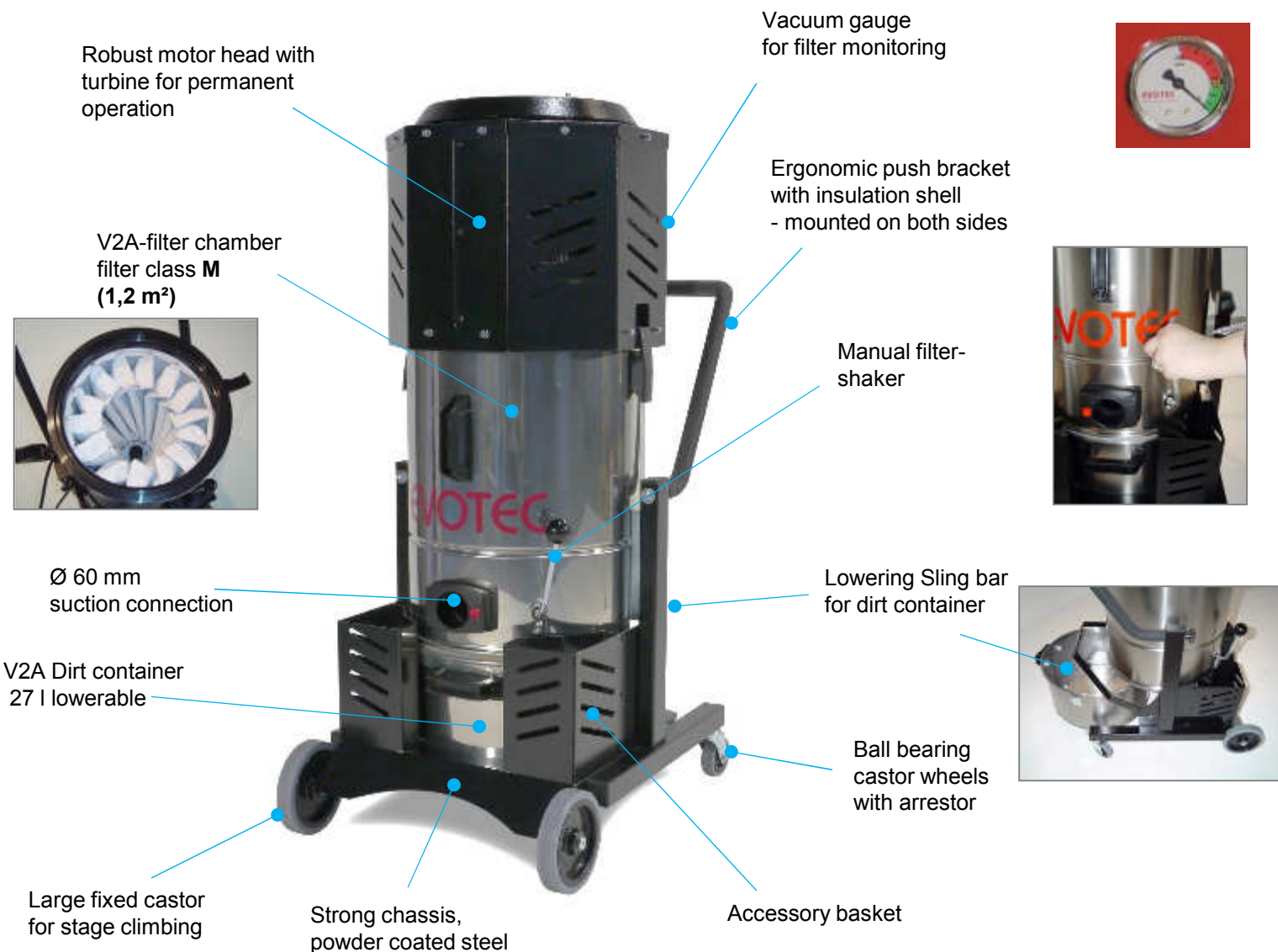
\*)announced for GS-test

## Dry vacuum cleaner – 230 volt – 27 liter-container

### Compact 15

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

Suitable for permanent operation, with side channel blower, able to climb stairs.



Available in versions :





## Dry vacuum cleaner – 230 volt – 35 liter-container

### EP 1122 EP 1122 S

2.400 Watt  
230 Volt  
330 m³/h  
210 mbar  
35 liter container

EP1122S:  
able to climb stairs



V2A-filter chamber  
Filter class M  
(1,75 m²)

Ø 80 mm  
Suction connection with  
closing plug

V2A dirt container 35 l

Fixed castor  
for heavy loads

Vacuum gauge  
for filter monitoring

Outlet for connecting  
electrical tools

Robust motor head with  
2 engines

Clamping ring for safe  
connection of motor head  
and filter chamber

Ergonomic push  
bracket with  
insulation shell

Manual filter-  
shaker

Accessory stowage

Clamps for  
attaching the  
dirt container

Ball bearing  
castor wheels  
with arrestor

Strong chassis,  
powder coated steel

EP1122S: Chassis in  
handcarts version



Available in versions :





## Dry vacuum cleaner – 230 volt – 35 liter-container

### **EP 1115**

1.500 Watt  
230 Volt  
220 m³/h  
200 mbar  
35 liter container

Very silent (63dbA),  
Suitable for  
permanent operation,  
with turbine (SKV)



Available in versions :



## Dry vacuum cleaner – 230 volt – 60 liter-container

### EP 1136

3.600 watt  
230 volt  
490 m³/h  
210 mbar  
60 liter container

Powerful  
vacuum flow



Motor switch

Vacuum gauge  
for filter monitoring

V2A-filter chamber  
with pocket filter  
Filter class **M**  
(2,2 m²)

Ø 80 mm suction  
Connection with  
closing plug

V2A dirt  
container 60 l



Fixed castor wheels  
for heavy loads

Silenced motor housing  
with 3 x 1,200 watt motors

Ergonomic push  
bracket with  
insulation shell

Double-sided lever  
for container-lowering

Accessory basket

Manual filter-  
shaker



Hand tube holder

Ball bearing castor wheels  
with arrestor

Mobile chassis,  
powder coated steel

Available in versions :



## Dry vacuum cleaner 230 volt

**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.

Yet type Compact 15 + EP 1115 :

Well designed, silenced and maintenance-free side channel blower for generating vacuum. **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-separating of fine dust particles and coarse matter.

**1st level filter:** pocket filter with PUR-membrane, **dust class M**

**2nd level filter:** „Absolut“-cartridge filter, **dust class H (H14)**

All filters are certified according to EN 60335-2-69.

Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk** – easy and safe for staff and maintenance service.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose. Length of the connection cable: 8m.

**Included in delivery:** 3,5 m suction hose Ø 40 mm and crevice (EP1136 yet Ø 50 mm)



Type		ECODust 1200	ECODust 2400	Compact 15	EP 1122	EP 1122	EP 1115	EP 1136
Voltage	Volt	230	230	230	230	230	230	230
Power output	Watt	1.200	2.400	1.500	2.400	2.400	1.500	3.600
max. air flow rate	m³/h	165	330	220	330	330	220	490
max. neg. pressure	mbar	210	210	200 /240 max.	210	210	200 / 240 max.	210
Filter area „M“	m²	1,00	1,00	1,20	1,75	1,75	1,75	2,2 or 3,2
Filter area „H“ (H14)	m²	+ 1,7	+ 1,7	--	+ 1,7	+ 1,7	+ 1,7	+ 2,0
Dirt container	liter.	25	25	27	35	35	35	60
Type of protection		IPX4	IPX4	IP55	IP 33	IP 33	IP 55	IP 33
Suction connection	Ø mm	60	60	60	80	80	80	80
Dimension	cm	48x48x105	48x48x105	84x50x110	83 x 59 x 120	83 x 59 x 120	119x58x122	86 x 68 x 138
Weight	kg	25	25	45	50	50	105	75
Dust class <b>M</b>	Art.-No.	<b>151-3020</b>	<b>151-3030</b>	<b>151-2080</b>	<b>151-1060</b>	<b>151-1062</b>	<b>151-1050</b>	<b>151-1080</b>
Dust class <b>M/Typ22</b>	Art.-No.	--	--	<b>151-2081</b>	--	--	<b>151-1051</b>	--
Dust class <b>H</b>	Art.-No.	<b>151-3021</b>	<b>151-3031</b>	--	<b>151-1061</b>	<b>151-1063</b>	<b>151-1052</b>	<b>151-1081</b>
Dust class <b>H/Typ22</b>	Art.-No.	--	--	--	--	--	<b>151-1053</b>	--
Dust class <b>H/Asbestos</b>	Art.-No.	<b>151-3022</b>	--	--	--	--	--	--

## Dry vacuum cleaner – 400 volt – 35 liter-container

**EP 2115**

**EP 2122-35**

1.500 to 2.200 watt

400 volt

220 to 330 m³/h

200 to 300 mbar

35 liter container

Very silent



Available in versions :



## Dry vacuum cleaner – 400 volt – 60 liter-container

### **EP 2122 ECO**

### **EP 2130 ECO**

2.200 to 3.000 watt

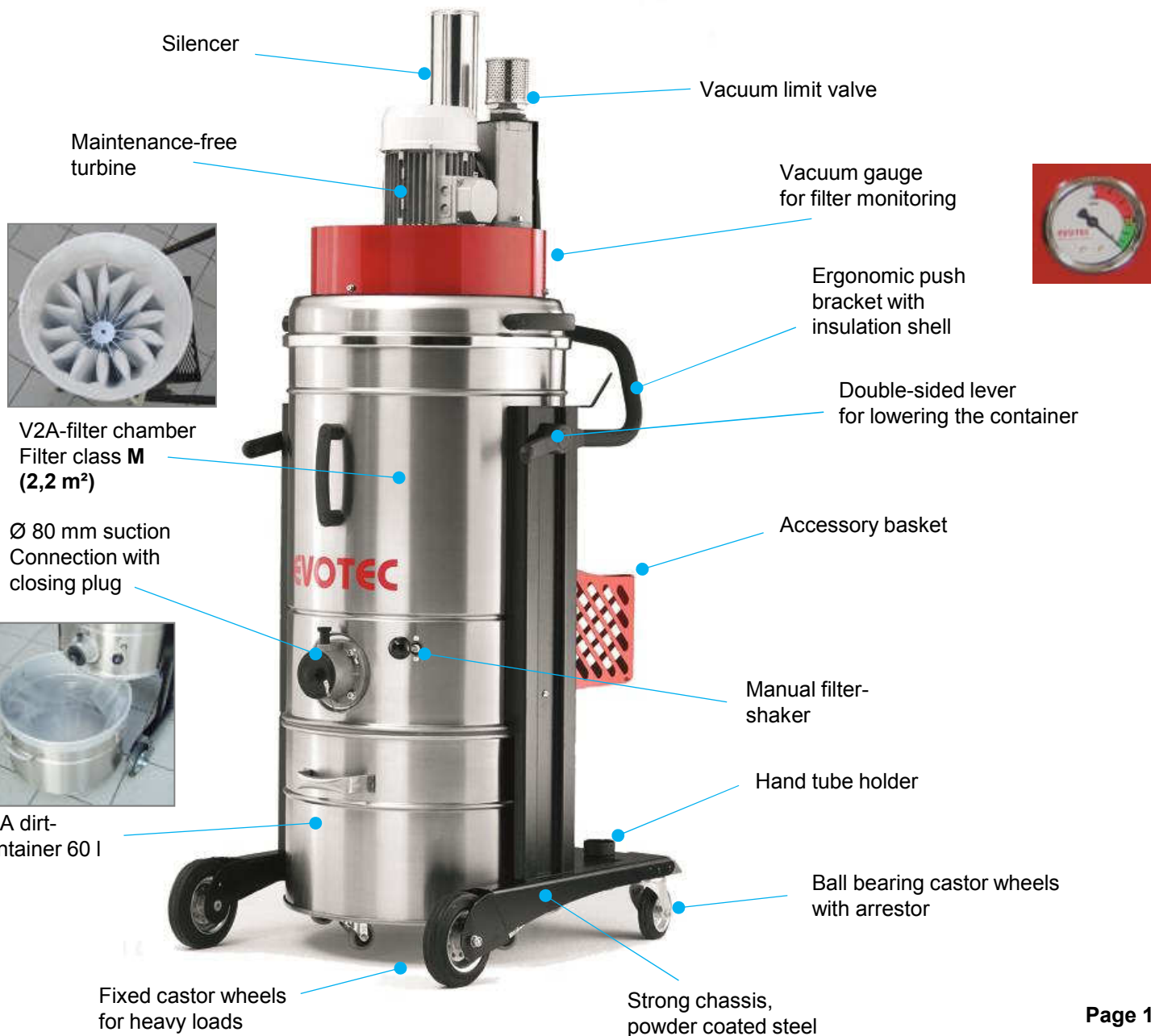
400 volt

330 m³/h

240 to 340 mbar

60 liter container

Powerful  
and suitable for  
permanent operation



Available in versions :





# Dry vacuum cleaner – 400 volt – 60 liter-container

**EP 2122**

**EP 2130**

**EP 2140 ECO**

**EP 2155 ECO**

2.200 to 5.500 watt

400 volt

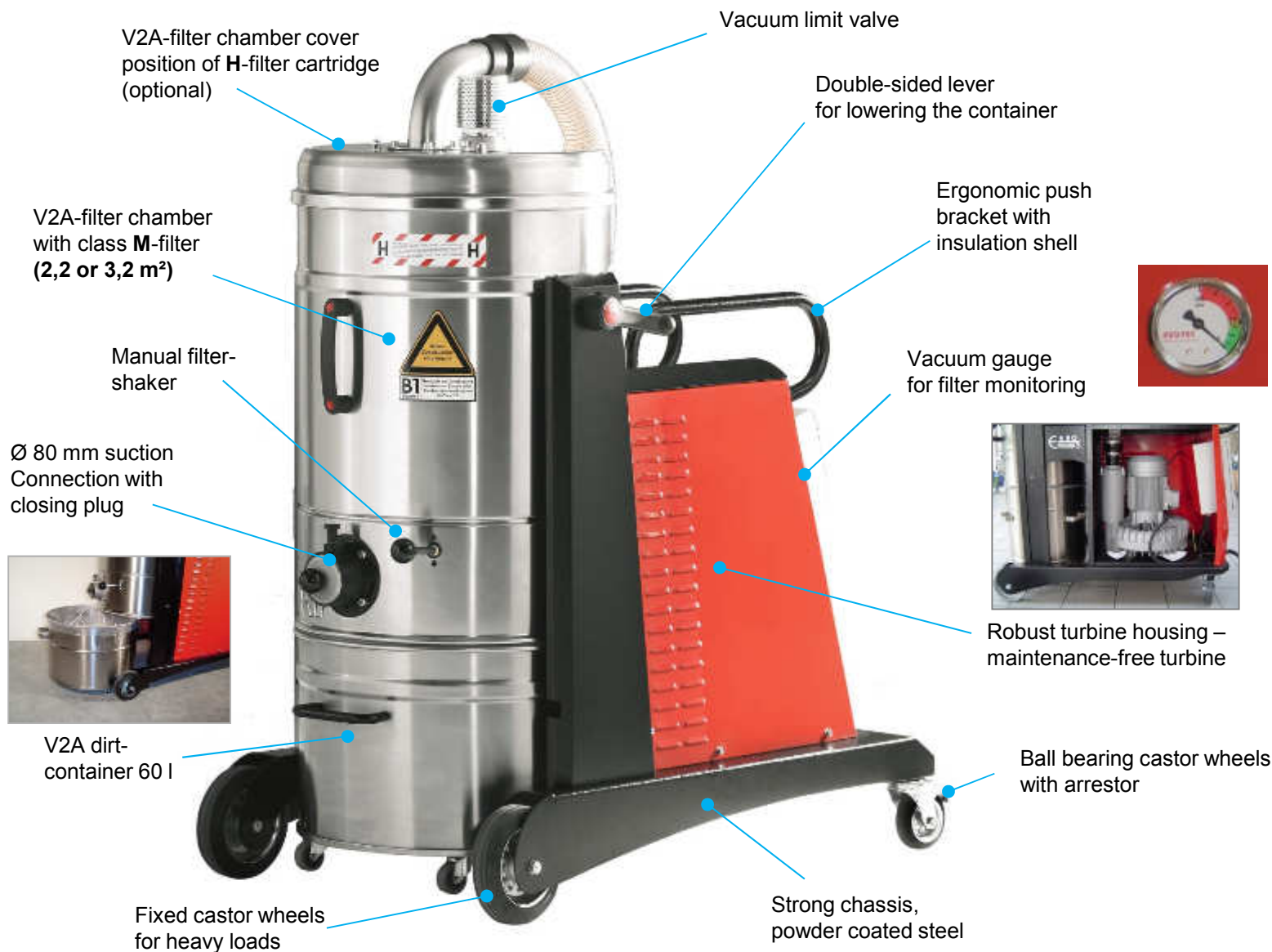
330 to 500 m³/h

240 to 340 mbar

60 liter container

Powerful  
and suitable for  
permanent operation

Available in versions :



## Dry vacuum cleaner 400 volt – 35 and 60 liters

**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** on AC. Can also be used on pipe systems or with very long hoses.

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

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

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

**1st level filter:** pocket filter with PUR-membrane, **dust class M**

**2nd level filter:** „Absolut“-cartridge filter, **dust class H (H14)**

All filters are certified according to EN 60335-2-69.

Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk** – easy and safe for staff and maintenance service.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose. Length of the connection cable: 8m.

**Included in delivery:** 3,5 m suction hose Ø50 mm and crevice nozzle

Type		EP 2115	EP 2122-35	EP 2122 ECO	EP 2130 ECO	EP 2122	EP 2130	EP 2140 ECO	EP 2155 ECO
Voltage	Volt	400	400	400	400	400	400	400	400
Power output	Watt	1.500	2.200	2.200	3.000	2.200	3.000	4.000	5.500
max. air flow rate	m³/h	220	330	330	330	330	330	410	500
max. neg. pressure	mbar	200 / 240 max.	240 / 300 max.	240 / 300 max.	260 / 340 max.	240 / 300 max.	260 / 340 max.	240 / 300 max.	260 / 320 max.
Filter area „M“	m²	1,75	1,75	2,2	2,2	2,2 or 3,2	2,2 or 3,2	3,2	3,2
Filter area „H“ (H14)	m²	+ 1,7	+ 1,7	+ 2,0	+ 2,0	+ 2,0	+ 2,0	+ 4,3	+ 4,3
Dirt container	liter.	35	35	60	60	60	60	60	60
Type of protection		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
Suction connection	Ø mm	80	80	80	80	80	80	80	80
Dimension	cm	119x58x122	119x58x122	83 x 68 x 165	83 x 68 x 165	120x68x135	120x68x135	120x68x135	120x68x135
Weight	kg	105	105	95	100	150	160	180	190
Dust class <b>M</b>	Art.-No.	<b>251-2070</b>	<b>251-1010</b>	<b>251-1020</b>	<b>251-1030</b>	<b>251-1040</b>	<b>251-1050</b>	<b>251-1060</b>	<b>251-1070</b>
Dust class <b>M/Typ22</b>	Art.-No.	<b>251-2071</b>	<b>251-1011</b>	<b>251-1021</b>	<b>251-1031</b>	<b>251-1041</b>	<b>251-1051</b>	<b>251-1061</b>	<b>251-1071</b>
Dust class <b>H</b>	Art.-No.	<b>251-2072</b>	<b>251-1012</b>	<b>251-1022</b>	<b>251-1032</b>	<b>251-1042</b>	<b>251-1052</b>	<b>251-1062</b>	<b>251-1072</b>
Dust class <b>H/Typ22</b>	Art.-No.	<b>251-2073</b>	<b>251-1013</b>	<b>251-1023</b>	<b>251-1033</b>	<b>251-1043</b>	<b>251-1053</b>	<b>251-1063</b>	<b>251-1073</b>
Dust class <b>H/Asbestos</b>	Art.-No.	--	<b>251-1015</b>	--	--	--	--	--	--

# Dry vacuum cleaner – 400 volt – 100 liter-container

**EVOTEC**

**EP 2140**

**EP 2155**

**EP 2175 ECO**

4.000 to 7.500 watt

400 volt

500 to 510 m³/h

240 to 380 mbar

100 liter container

Suitable for  
pipe systems

V2A-filter chamber cover  
position of H-filter cartridge  
(optional)

Vacuum limit valve

V2A-filter chamber  
class M-Filter  
(3,2 m²)

Silencer

Ergonomic push  
bracket with  
insulation shell

Sling bar for lowering  
the dirt container

Vacuum gauge  
for filter monitoring

Manual filter-  
shaker

Ø 80 mm suction  
Connection with  
closing plug

V2A dirt-  
container 100 l

Robust turbine housing –  
maintenance-free turbine



Fixed castor wheels  
for heavy loads

Strong chassis,  
powder coated steel

Ball bearing castor wheels  
with arrestor

Available in versions :



## Dry vacuum cleaner – 400 volt – 100 liter-container

**EP 2175**

**EP 21130**

7.500 to 12.500 watt

400 volt

510 to 1100 m³/h

340 to 420 mbar

100 liter container

Suitable for  
pipe systems

V2A-filter chamber cover  
position of **H**-filter cartridge  
(optional)

V2A-filter chamber  
class **M**-filter  
(5,2 m²)

Sling bar for lowering  
the dirt container

Manual filter-  
shaker

Ø 80 mm suction  
Connection with  
closing plug

V2A dirt-  
container 100 l

Vacuum limit valve

Silencer

Ergonomic push  
bracket with  
insulation shell

Vacuum gauge  
for filter monitoring



Robust turbine housing –  
maintenance-free turbine



Heavy duty castors  
with brake

Strong chassis,  
powder coated steel

Fixed heavy duty castor wheels

Available in versions :





## Dry vacuum cleaners 400 Volt – 100 liters

**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** on AC. Can also be used on pipe systems or with very long hoses.

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

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

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

**1st level filter:** pocket filter with PUR-membrane, **dust class M**

**2nd level filter:** „Absolut“-cartridge filter, **dust class H (H14)**

All filters are certified according to EN 60335-2-69.

Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk** – easy and safe for staff and maintenance service.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose. Length of the connection cable: 8m.

**Type EP 2140 and EP 2155 include**

5 m suction hose Ø50 mm and crevice nozzle.

Type		EP 2140	EP 2155	EP 2175 ECO	EP 2175	EP 21130
Voltage	Volt	400	400	400	400	400
Power output	Watt	4.000	5.500	7.500	7.500	12.500
max. air flow rate	m³/h	500	510	510	510	1.100
max. neg. pressure	mbar	240 / 280 max.	320 / 360 max.	340 / 380 max.	340 / 380 max.	360 / 420 max.
Filter area „M“	m²	3,2	3,2	3,2	5,2	5,2
Filter area „H“ (H14)	m²	+ 4,3	+ 4,3	+ 4,3	+ 4,3	+ 4,3
Dirt container	liter	100	100	100	100	100
Type of protection		IP 55	IP 55	IP 55	IP 55	IP 55
Suction connection	Ø mm	80	80	80	80	80
Dimension	cm	148 x 68 x 156	148 x 68 x 156	148 x 68 x 156	148 x 68 x 187	148 x 68 x 187
Weight	kg	190	200	210	340	350
Dust class <b>M</b>	Art.-No.	<b>251-1080</b>	<b>251-1090</b>	<b>251-3000</b>	<b>251-2000</b>	<b>251-2010</b>
Dust class <b>M/Typ22</b>	Art.-No.	<b>251-1081</b>	<b>251-1091</b>	<b>251-3001</b>	<b>251-2001</b>	<b>251-2011</b>
Dust class <b>H</b>	Art.-No.	<b>251-1082</b>	<b>251-1092</b>	<b>251-3002</b>	<b>251-2002</b>	<b>251-2012</b>
Dust class <b>H/Typ22</b>	Art.-No.	<b>251-1083</b>	<b>251-1093</b>	<b>251-3003</b>	<b>251-2003</b>	<b>251-2013</b>



## Compressed air dry vacuum cleaner– 60 liter container

### EP 312-60

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

2 compressed  
air ejectors



Vacuum gauge  
for filter monitoring

V2A-filter chamber  
with filter bag  
2,2 m² Filter M

Ø 80 mm suction  
Connection with  
closing plug

V2A dirt-  
container 60 l



Silenced housing  
with 2 pneumatic  
ejectors

Connection for  
compressed air



Double-sided lever for  
container-lowering

Earthing terminal for  
potential equalization

Accessory basket

Manual filter-  
shaker

Hand tube holder

Ball bearing castor wheels  
with arrestor



Strong chassis,  
powder coated steel

Fixed castor wheels  
for heavy loads

Available in versions :



## Compressed air wet vacuum cleaner– 120 liter container

**EVOTEC**

### **EP 302-120**

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

2 compressed air ejectors

Vacuum gauge for filter monitoring



Silenced housing with 2 pneumatic ejectors

Connection for compressed air



Ø 80 mm suction port

Earthing terminal for potential equalization

Including black drain hose

Tipping device

Tilting V2A Dirt container 120 l



Ball bearing castor wheels with arrestor

Fixed castor wheels for heavy loads

Strong chassis, powder coated steel

Available in versions:  
only for liquids

Dry cleaner-kit optional  
available

## Compressed air vacuum cleaner

**High quality standards** – Well designed, powerful **compressed air injectors** for secure operation even in explosive environments (area 21 and 22).

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

Length of earthing terminal: 2m.

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

**EP 312-60: Powerful compressed-air dry vacuum cleaner for sucking up all dry dust particles – from coarse dirt to fine dust(µm).**

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

**Cyclone separator** for better pre-separating of fine dust particles and coarse.

**1st level filter:** pocket filter with PUR-membrane, **dust class M**

**2nd level filter:** „Absolut“-cartridge filter, **dust class H (H14)**

All filters are certified according to EN 60335-2-69.

Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk**.

**EP 302-120: Powerful compressed air wet vacuum cleaner for the suction of liquids.**

Innovative **electronic fill-level control**, **tipper chassis** for **easy disposal** of the absorbed matter.

Fast coupling with locking mechanism and rotating device for secure connection of the suction hose. Length of the connection cable: 8m.

**Included in delivery:** 3,5 m suction hose Ø50 mm and crevice nozzle

Type		EP 312-60 Dry vacuum cleaner	EP 302-120 Wet vacuum cleaner
Pressured air ejectors	Count	2	2
Consumption	m³/h	56 (at a flow pressure of 4 bar)	56 (at a flow pressure of 4 bar)
Operating Pressure	Bar	6 – 10	6 - 10
max. air flow rate	m³/h	300	300
max. neg. pressure	mbar	200 - 280	200 - 280
Filter area „M“	m²	2,2 or 3,2	--
Filter area „H“ (H14)	m²	+ 2,0	--
Dirt container	liter.	60	120
Suction connection	Ø mm	80	80
Dimension	cm	83 x 68 x 140	50x65x105
Weight	kg	100	74
Dust class <b>M/Typ22</b>	Art.-No.	<b>151-1082</b>	--
Dust class <b>H/Typ22</b>	Art.-No.	<b>151-1083</b>	--
<b>Liquid-vacuum cleaner</b>	Art.-No.		<b>151-1041</b>

## Cleaner for compressible material– 400 Volt – 145 liter

**EVOTEC**

### **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



Fig. : Stationary version

Available in versions :



Intake bend with Kamlock coupling for connecting the suction hose

Sight glass for level monitoring

Position of re-usable cloth filter bag



V2A dirt container 145 l

Silencer

Vacuum gauge for filter monitoring



Robust turbine housing – maintenance-free turbine

Castor wheels with arrestor, optional: supporting feet

Fixed castor for heavy loads

Strong chassis, powder coated steel



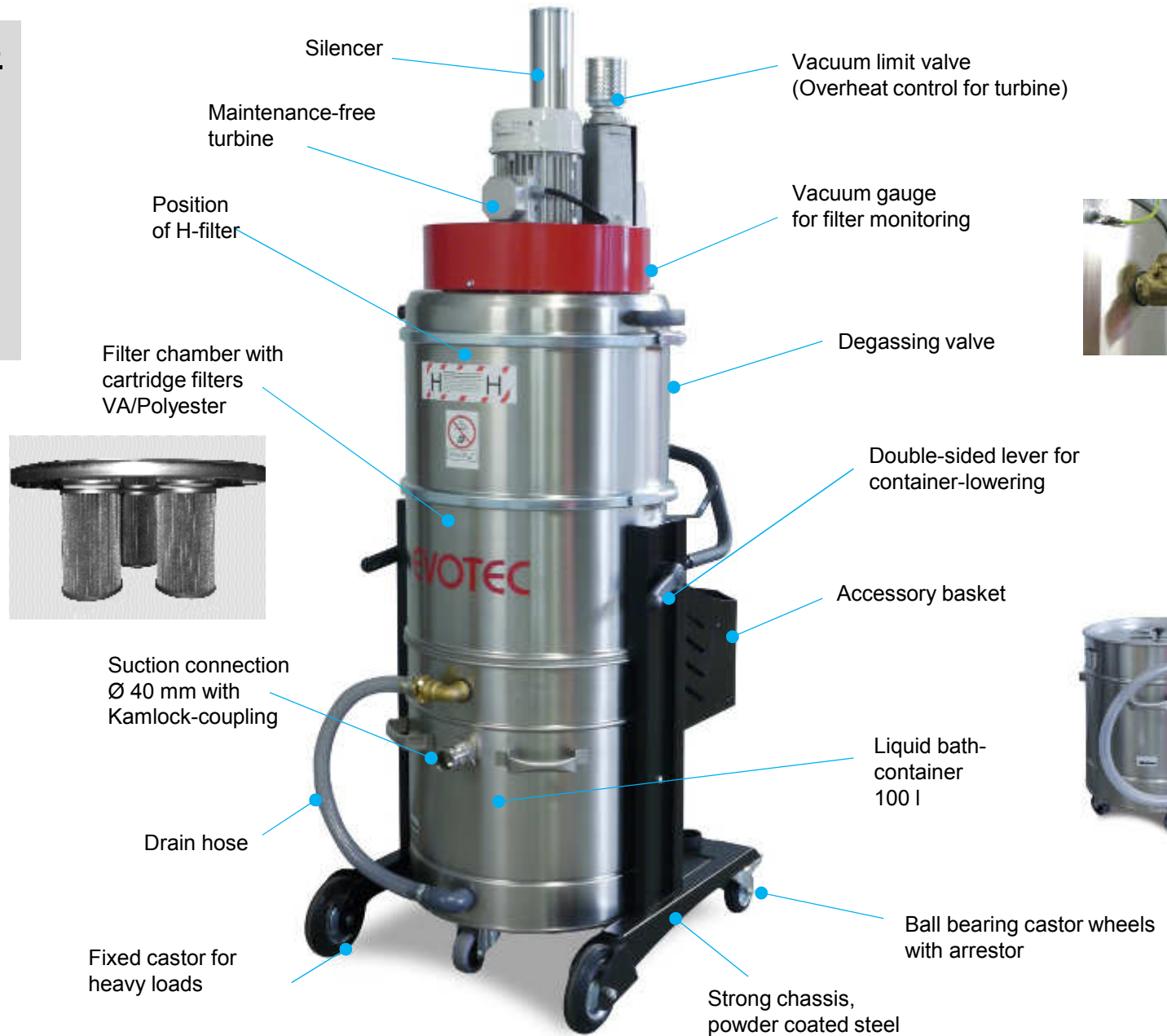
# Liquid bath vacuum cleaners – 400 Volt – 100 liter-container

# EVOTEC

## EP 2122 ECO-WB

2.200 watts  
400 volt  
330 m³/h  
240 to 340 mbar  
100 liter container

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



Available in versions :





## Special vacuum cleaners – 400 Volt

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

**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.

**Included in delivery:**

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

**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.

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.

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

**Included in delivery:**

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

Type		EP 2330	EP 2340
Voltage	Volt	400	400
Power output	Watt	3.000	4.000
max. air flow rate	m³/h	330	330
max. neg. pressure	mbar	340	360
Filter area	m²	1,3	1,3
Dirt container	liter.	145	145
Suction connection	Ø mm	50	50
Dimension	cm	120x68x136	120x68x136
Weight	kg	85	87
	Art.-No.	<b>251-2040</b>	<b>251-2050</b>

Type		EP 2122 ECO WB
Voltage	Volt	400
Power output	Watt	2.200
max. air flow rate	m³/h	330
max. neg. pressure	mbar	240 /300 max.
Filter area <b>VA-Filter</b> Filter area „H“ (H14)	m² m²	1,0 + 2,0
Dirt container	liter.	100
Type of protection		IP 55
Suction connection	Ø mm	40 mm Kamlock
Dimension	cm	83 x 68 x 165
Weight	kg	100
Dust class <b>H/Typ22</b>	Art.-No.	<b>251-3080</b>

## **SuperSilent - 58 dB(A) Heavy duty industrial vacuum cleaner**

# EVOTEC

# EPS 1115/2115

# EPS 2122

# EPS 2130

# EPS 2140

**1.500 to 4.000 watts**

230/400 volts

200 to 300 mbar

220 to 410 m<sup>3</sup>/h

Longopac-System  
Very silent (58 dbA)

**NEW**

Available in versions :



## Special vacuum cleaners - SuperSilent

# EVOTEC

**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 59 dB(A)**

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

Sturdy, 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:** pocket filter with PUR-membrane, **dust class M**

**2nd level filter:** „Absolut“-cartridge filter, **dust class H (H14)**

All filters are certified according to EN 60335-2-69.

Effective, easy-to-use **filter cleaning** for a long filter lifetime.

**Vacuum gauge** for filter monitoring. Patented, tool less **filter change** with **low contamination risk** – easy and safe for staff and maintenance service.

**Figure:** Optional with atmospheric pulse-cleaning (PPU)

**Included in delivery:**

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

Type		EPS 1115 EPS 2115	EPS 2122	EPS 2130	EPS 2140
Voltage	Volt	230/400	400	400	400
Power output	Watt	1.500	2.200	3.000	4.000
max. air flow rate	m³/h	220	330	330	410
max. neg. pressure	mbar	200/ 240 max.	240 / 300 max.	260 / 340 max.	240 / 300max.
Filter area „M“	m²	1,75 od. 5,0	1,75 od. 5,0	1,75 od. 5,0	1,75 od. 5,0
Filter area „H“ (H14)	m²	+ 1,7	+ 1,7	+ 1,7	+ 1,7
Sound level	dB(A)	55		59	
Type of protection		IP 55	IP 55	IP 55	IP 55
Suction connection	Ø mm	80	80	80	80
Dimension	cm	108x55x163	108x55x163	108x55x163	108x55x163
Weight	kg				
Dust class <b>M</b>	Art.-No.	<b>251-4000</b>	<b>251-4010</b>	<b>251-4020</b>	<b>251-4030</b>
Dust class <b>M/Typ22</b>	Art.-No.	<b>251-4001</b>	<b>251-4011</b>	<b>251-4021</b>	<b>251-4031</b>
Dust class <b>H</b>	Art.-No.	<b>251-4002</b>	<b>251-4012</b>	<b>251-4022</b>	<b>251-4032</b>
Dust class <b>H/Typ22</b>	Art.-No.	<b>251-4003</b>	<b>251-4013</b>	<b>251-4023</b>	<b>251-4033</b>

# Wet / Dry vacuum cleaners / Pump vacuum cleaners – 230 Volt **EVOTEC**

## **EP 1036**

3.600 watt/230 volt  
490 m³/h  
210 mbar  
120 l container  
Pocket filter  
Drain hose

## **EP 1024 Pump**

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

EP 1024:  
built-in 900-W-Pump



Available in versions:



EP 1036: Filter for the suction of dry materials



## Wet / Dry vacuum cleaners / Pump vacuum cleaners

### EP 1036

#### Powerful **wet and dry vacuum cleaner**

**Wet:** With innovative **electronic fill level sensor** (patented), shutting down the engine when the liquid reaches the highest level.

**Dry:** **Cyclone separator** for better pre-separating fine dusts and coarse. Surface coated Euronorm-filter according to EN 60335-2-69 with high filtering capacity.

**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. Incl. 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

#### Included in delivery:

3,5 m suction hose and Ø50 mm crevice nozzle

Type		EP 1036 Wet / dry vacuum cleaners	EP 1024 Pump-vacuum cleaners
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 area	m²	1,0	--
Dirt container	liter.	120	120
Type of protection		IP 33	IP 33
Suction connection	Ø mm	80	80
Dimension	cm	50x65x105	50x65x105
Weight	kg	68	70
	Art.-No.	<b>151-1040</b>	<b>151-1030</b>



# Swarf vacuum cleaner – 230 Volt – 140 liter container

# EVOTEC

## EP 1236-140

3.600 watt/230 volt  
490 m³/h  
210 mbar  
140 l container

360° Suction port  
Swarf basket  
Optical control  
via dump hose



## Swarf vacuum cleaner – 230 Volt – 100 liter container

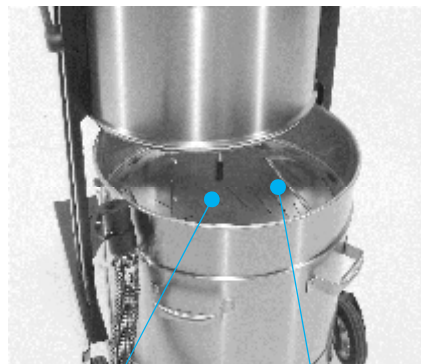
**EVOTEC**

### **EP 1236-100**

#### **EP 1236-100 Sensor**

3.600 watt/230 volt  
490 m³/h  
210 mbar  
100 l container  
360° Suction port  
Swarf separating base  
Optical control  
via dump hose

**EP 1236-100 Sensor:**  
Automatic fill-level control



Level-Sensor

Swarf basket optional



# Swarf vacuum cleaner – 230/400 Volt – pressure emptying

# EVOTEC

**EP 1236**

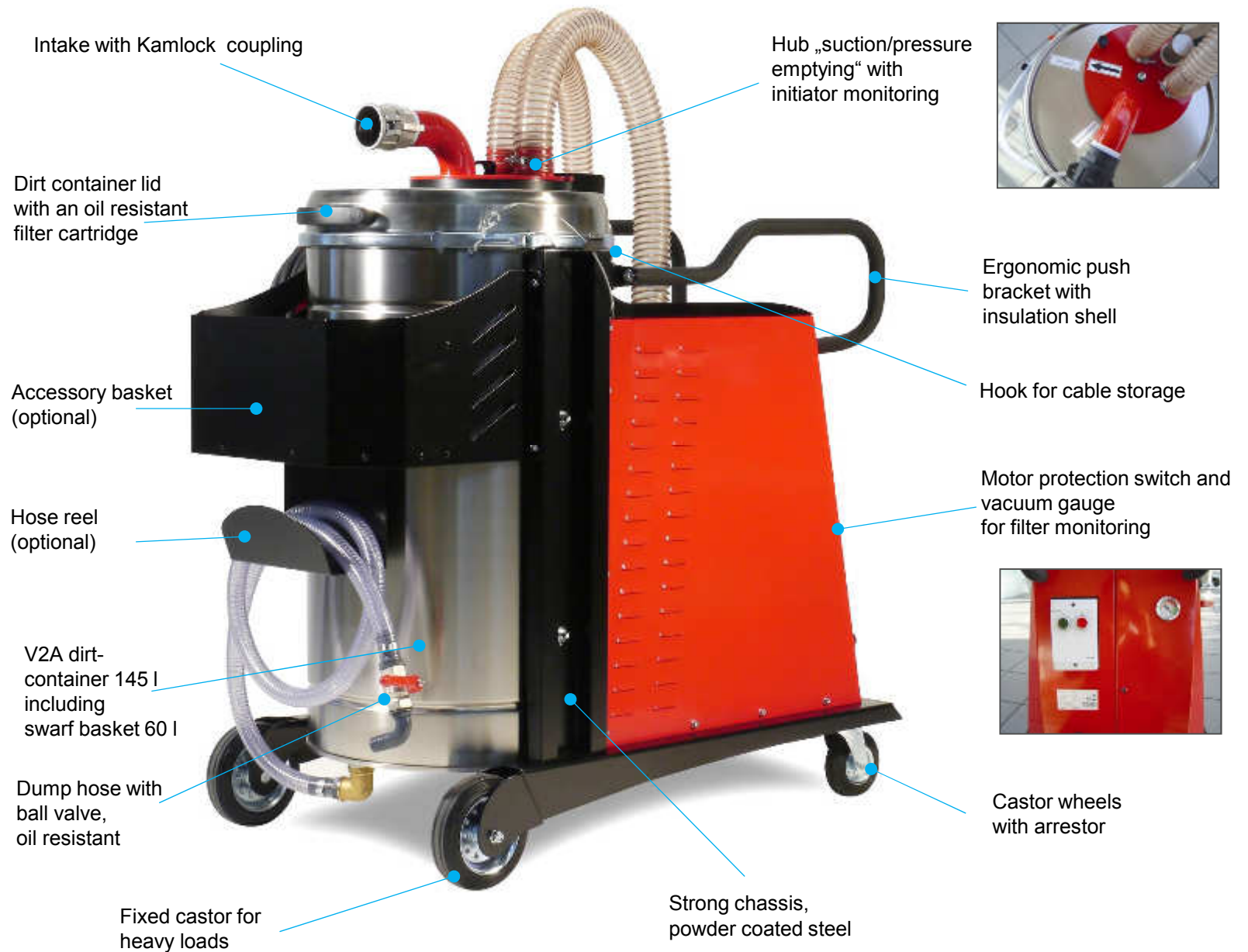
**EP 2230**

**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



## Swarf vacuum cleaners

### EP 1236-140 – EP 1236-100 – EP 1236-100 Sensor

**Powerful industrial vacuum cleaners for the suction of swarfs.**

For the **suction and separate disposal** of solid material / swarfs and liquid / emulsions.

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

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

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

360° pivotable intake with Kamlock-coupling.

### EP1236 – EP 2230 – EP 2240 – EP2255:

**Powerful swarf vacuum cleaners with pressure emptying**

For the **suction and separate disposal** of solid material / swarfs and liquid / emulsions.

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

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

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

**Includes oil resistant dump hose**, length 2 m, 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

**Included in delivery:**

3,5m suction hose Ø50 mm and crevice nozzle

Type		EP 1236-140	EP 1236-100	EP 1236-100 Sensor	EP 1236	EP 2230	EP 2240	EP 2255
Voltage	Volt	230	230	230	230	400	400	400
Power output	Watt	3.600	3.600	3.600	3.600	3.000	4.000	5.500
max. air flow rate	m³/h	490	490	490	490	330	330	510
max. neg. pressure	mbar	210	210	210	210	300	320	320
Filter area	m²	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Dirt container	liter.	140	100	100	145	145	145	145
Swarf basket	liter.	60	Separating base	Separating base	60	60	60	60
level control	Art	electronic	optical	electronic	electronic	electronic	electronic	electronic
Type of protection		IP 33	IP 33	IP 33	IP 33	IP 55	IP 55	IP 55
Suction connection	Ø mm	Kamlock - 50	Kamlock – 50	Kamlock – 50	Kamlock-50	Kamlock-50	Kamlock-50	Kamlock-50
Dimension	cm	50x65x105	75 x 65 x 131	75 x 65 x 131	120x68x136	120x68x136	120x68x136	125x68x136
Weight	kg	80	70	70	100	168	170	191
	Art.-No.	<b>151-2010</b>	<b>151-3000</b>	<b>151-3001</b>	<b>151-2000</b>	<b>251-2020</b>	<b>251-2030</b>	<b>251-2080</b>



## Pocket filters for all Types of EVOTEC

(When subsequently changing from 2,2 m<sup>2</sup> to 3,2 m<sup>2</sup>, the filter basket has to be changed as well.)



### 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 m <sup>2</sup> , Ø 400 mm =	<b>054-20085B</b>
2,20 m <sup>2</sup> , Ø 500 mm (fig.) =	<b>054-20086B</b>
3,20 m <sup>2</sup> , Ø 500 mm =	<b>054-20087B</b>
5,20 m <sup>2</sup> , Ø 500 mm =	<b>054-20088</b>



### 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 m <sup>2</sup> , Ø 400 mm =	<b>054-20115</b>
2,20 m <sup>2</sup> , Ø 500 mm =	<b>054-20116</b>
3,20 m <sup>2</sup> , Ø 500 mm (fig.) =	<b>054-20117</b>
5,20 m <sup>2</sup> , Ø 500 mm =	<b>054-20118</b>



### 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 m <sup>2</sup> , Ø 400 mm =	<b>054-20127</b>
2,20 m <sup>2</sup> , Ø 500 mm (fig.) =	<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>

## Pocket filters / Absolute cartridge filters



### For series COMPACT:

### 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)

1,2 m <sup>2</sup> , Ø 390 mm =	<b>054-20077</b>
Matching filter ring =	<b>124-0473</b>
(Please order as well)	



### For EVO ECODust:

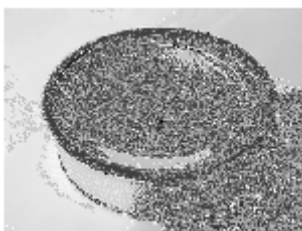
### Dust class M

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 m <sup>2</sup> , Ø 400 mm =	<b>054-20156</b>
---------------------------------	------------------



### Dust class H (H14)

### Absolute cartridge filter for all types of EVOTEC

Double-sided support grid,  
to buy for replacement

1,7 m <sup>2</sup> , Ø 400 mm =	<b>054-20018</b>
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>



## 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-Behälter =	<b>235-1011</b>
60-l-Behälter =	<b>235-1021</b>
100-l-Behälter =	<b>235-1031</b>



### 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



### 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**



### Spark trap


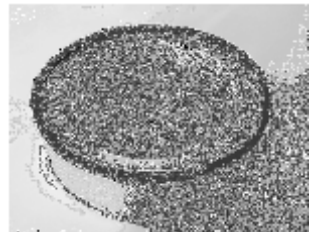
Prevents the suction of sparks into the vacuum cleaner. Due to the air redirection, the sparks bounce against the copper plates and expire. Via the detachable faceplate, the trap can be cleaned.

**053-4000**



Accessory for wet- and swarf vacuum cleaners	
	<p><b>Pocket filter for EP 1036</b> For wet- and dry vacuum cleaner EP 1036 1,0 m², 9 pockets, Ø 500 mm, to buy for replacement.</p> <p><b>Filter =</b> <b>054-10144</b> <b>Ring =</b> <b>054-10136</b></p>
	<p><b>Cartridge filter for swarf vacuum cleaners</b> (EP 1236, EP 1236-100 and EP 1236-140) To buy for replacement</p> <p>1,0 m², Ø 50 cm = <b>054-10059</b></p>
	<p><b>Swarf basket 60 liters</b> Bottom height adjustable from 190 to 375 mm</p> <p><b>Instead of separating plate</b> Optional <b>053-3090</b></p> <p><b>To buy for replacement</b> As a spare part <b>054-30075</b></p>
	<p><b>PUR-suction hose</b> For swarf –and emulsion vacuum cleaner With fitting for Kamlock-coupling</p> <p>3,5 m, Ø 50 mm = <b>052-0278</b> 5,0 m, Ø 50 mm = <b>052-0279</b></p> <p><b>Suitable Kamlock-fitting</b> for suction hose Ø 50 mm <b>052-0261</b></p>

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



## Options / accessory for line ROBUSTO

	<b>ASBESTOS-Exhaust air hose</b> Complete with Stortz-coupling for connecting it to the exhaust vent.  1,5 kW to 5,5 kW = <b>053-3092</b> 7,5 kW = <b>053-3093</b>
	<b>Only for line 4000:</b> <b>Absolute-cartridge filter</b> Dust class H (H14) Double-sided support grid 1,7 m <sup>2</sup> , Ø 400 mm = <b>054-20018</b> 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>
	<b>Only for line 4000:</b> <b>Surcharge for EX-protection</b> EX-proof equipping of the vacuum cleaner for secure suction of dusts in zone 22. Includes vacuum limit valve, direction guard, earthing bridge and zone 22-examination. for 3,0 kW = <b>054-6433</b> for 5,5 kW = <b>054-6453</b>
	<b>Only for line 4000:</b> <b>Vacuum limit valve</b> Additional overheating protection for the turbine Suitable for: 3,0 kW = <b>052-1131</b> 5,5 kW = <b>052-1242</b>

## Pre-separators

	<b>Filter- pre-separator V2A</b>  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  <b>Dust class M</b> Incl. pocket filter <b>053-2030</b> 2,2 m <sup>2</sup> surface  <b>Matching absolute filter cartridge</b> Dust class H <b>054-20027</b> 2,0 m <sup>2</sup> surface  <u>Find suitable suction- and connection hoses for pre-separators at „accessories“.</u>
	<b>Wet- pre-separator V2A</b>  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  <u>Attention:</u> The suction hose needs two suction side fittings!  <b>053-1070</b>

Pre-separators															
	<p><b>Pre-separator 100 liters</b> Completely made of stainless steel with 4 swivel castors.</p> <p>Different connector bends:</p> <table> <tr> <td>Ø 60 + Ø 50 =</td> <td><b>053-1090</b></td> </tr> <tr> <td>Ø 60 + Ø 40 =</td> <td><b>053-1091</b></td> </tr> <tr> <td>Ø 50 + Ø 50 =</td> <td><b>053-1092</b></td> </tr> <tr> <td>Ø 40 + Ø 40 =</td> <td><b>053-1093</b></td> </tr> </table> <p><u>Attention:</u> The suction hose needs two suction side fittings!</p> <p><b>Floating system for pre-separator</b> For the suction of liquids <b>053-1051</b></p> <p><b>Draining hose for pre-separator</b> Universally suitable <b>053-3010</b></p> <p><b>Connection hose</b> for the connection to the vacuum cleaner, complete with fittings, length 2,0 m, Ø 60 mm</p> <table> <tr> <td><b>PUR</b></td> <td>=</td> <td><b>053-3081</b></td> </tr> <tr> <td><b>Superflex</b></td> <td>=</td> <td><b>053-3080</b></td> </tr> </table>	Ø 60 + Ø 50 =	<b>053-1090</b>	Ø 60 + Ø 40 =	<b>053-1091</b>	Ø 50 + Ø 50 =	<b>053-1092</b>	Ø 40 + Ø 40 =	<b>053-1093</b>	<b>PUR</b>	=	<b>053-3081</b>	<b>Superflex</b>	=	<b>053-3080</b>
	Ø 60 + Ø 50 =	<b>053-1090</b>													
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<b>PUR</b>	=	<b>053-3081</b>													
<b>Superflex</b>	=	<b>053-3080</b>													
	<p><b>Tandem connection set</b> For 100 liter or 150 liter pre-separators.</p> <p>With this set the pre-separator can be combined with the industrial vacuum cleaner to form a mobile unit.</p> <p>Incl. connection hose from pre-separator to vacuum cleaner (angled hose coupling)</p> <p>Suitable for models EP 1136, EP 2122 ECO <b>053-2070</b> and EP 2130 ECO</p>														

Pre-separators	
	<p><b>Container with hinged floor 1000 liters</b> 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.</p> <p><b>053-2020</b></p>
	<p><b>Tilting container pre-separator 500 liters</b> 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.</p> <p><b>053-2010</b></p>

## Suction arm



The suction arm allows the spot-suctioning directly at the place of origin.

Simple handling and easy positioning due to **self-supporting construction**.

**Range: 1125 mm**

Anti-static and thus suitable for the **usage in ESD-areas** (grounded with a 1MΩ resistor).

Optionally available: **universal panel** for EVOTEC industrial vacuum cleaners with holder for the suction arm .

A broad variety of hoods allows the adjustment to the respective needs.

**Size Ø 50 mm, range 1.125 mm – perfect up to 3 kW**

Optimal for small coverage, e. g. in electronic industry, laboratories, dental realms, laser technics, manicure salons, goldsmiths etc.

**Size Ø 75 mm, range 1.290 mm – perfect from 3 kW and more**

Depending on the materials, Ø 75 mm is usable in a lot of different domains, e. g. laboratories, laser technics, chemical and pharmaceutical industry, food industry, in schools and universities or engineering.

## Suction arm and options

### Suction arm

Made of aluminum and PP, anti-static

Size Ø 50 mm, range 1.125 mm

**053-3050**

Size Ø 75 mm, range 1.290 mm

**053-3060**

**Suitable panel-holders** for the connection to EVOTEC- industrial vacuum cleaners

Size Ø 50 mm

**053-3051**

Size Ø 75 mm

**053-3061**



### Round hood

Recommended for hot gases, fumes and slight dust concentrations

Hood: Ø 200 mm

Aluminum, anti-static

Ø 50 mm =

**053-3052**

Ø 75 mm =

**053-3062**



### Suction tip (inclined tube)

For small, concentrated sources of pollutants.

High efficiency, since it can be brought very close without disturbing the working process.

Cantilevered for increased suction efficiency, aluminum, anti-static

Ø 50 mm =

**053-3053**

Ø 75 mm =

**053-3063**



### Flat hood

Particularly for heavy gases and fumes. High suction efficiency if positioned upright to the table plane.

Size 330 x 240 mm, material: PP, conductive

Ø 50 mm =

**053-3054**

Ø 75 mm =

**053-3064**



## Cartridge filter unit with Jet-cleaning



### Cartridge filter unit with Jet-cleaning

Filter surface 7,5 m<sup>2</sup>, 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 and EP 2150 ECO **053-3022**

For models EP 2140 and EP 2155 **053-3021**

For models EP 2175 and EP 21130 **053-3020**

### To buy for replacement

conical, Filter surface 7,5 m<sup>2</sup>, PTFE antistatic **054-20092**



## Filter-cleaning and spare 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 1,75 m<sup>2</sup> and cartridge filter up to 5 m<sup>2</sup>, 1 ¼" inch **053-3026**

For Pocket filter ab 2,2 m<sup>2</sup> and cartridge filter up to 10 m<sup>2</sup>, 1 ½" inch **053-3025**



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

5,0 m<sup>2</sup>, electrically conductive **054-20123**

5,0 m<sup>2</sup>, PTFE, electrically conductive **054-20122**

10,0 m<sup>2</sup> **054-20102**

10,0 m<sup>2</sup>, V4A, electrically conductive, food safe **054-20103**

without illustration

### 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



**NEW**



### Frequency converter (FU)

For variable speed control and increased performance of the turbine.

Including a big switch box for the electronic equipment (replaces the motor protection switch)

#### Version for 230 Volts:

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

#### Version for 400 Volts:

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**



**NEW**

### 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**

**NEW**



### 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 1122**  
Width 600 mm **053-1030**

**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	
	<p><b>Barrel pre-separator 210 liters</b></p> <p>210 liters powder coated standard barrel, universally suitable as pre-separator with suction connections</p> <p>Ø 40 mm = <b>053-1043</b> Ø 50 mm = <b>053-1044</b></p> <p><b>Floating system for pre-separator</b> Universally suitable, also for the assembly set <b>053-1051</b></p>
	<p><b>Assembly kit for barrel pre-separator</b> Universally fitting for 200 liters lidded drum (without lid) for self assembly, with suction connections Ø 40 mm = <b>053-1041</b> Ø 50 mm = <b>053-1042</b></p>
	<p><b>Barrel filling adapter</b> To fill 200-Litre-bunghole-barrels Bunghole width 2" Suction connection Ø 50 mm, Accessories connection Ø 40 mm <b>053-1060</b></p>

Device options	
	<p><b>Activated carbon filter module</b> To absorb odors and fumes. 25-l-container filled with activated carbon, individual matching, suitable for all models with turbine chassis <b>053-2060</b></p>
	
	<p><b>Electronic liquid level control</b> 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. <b>Only for dust classes M and H (not Type22).</b> Consisting of a flex probe, holder and electronics <b>053-3040</b></p>

## Practical accessory kits



### Machine cleaning set



Optimized for the cleaning of production machines, complete antistatic.

Consisting of bulk suction nozzle, inclined tube rubber nozzle, pointed rubber nozzle and round brush nozzle (not EX)

Ø 40 mm  
Ø 50 mm

**052-1080**  
**052-1070**



### Industrial floor cleaning set



For the cleaning of all floors, complete antistatic.

Consisting of multi-part hand tube, metal revolving nozzle with brush strip and replacement rubber strip, round brush nozzle (not EX)

Ø 40 mm, work width 370 mm  
Ø 40 mm, work width 450 mm  
Ø 50 mm, work width 370 mm  
Ø 50 mm, work width 450 mm  
Ø 50 mm, work width 500 mm

**052-1030**  
**052-1035**  
**052-1040**  
**052-1050**  
**052-1060**



### Set for cleaning at altitude

For the cleaning of e.g. supply tubes

Consisting of 2 m hand tube, curved tubular nozzles 100 mm and 200 mm, as well as a wall-and floor nozzle.

Ø 40 mm  
Ø 50 mm

**052-1090**  
**052-1100**

(All indications concerning the diameter describe the *inner diameter* of the hose )

## PP-hose and - components

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



### PP-suction hose antistatic, complete with fittings

length 3,5 m Ø 40 mm	<b>052-0151</b>
length 3,5 m Ø 50 mm	<b>052-0248</b>
length 5 m Ø 40 mm	<b>052-0152</b>
length 5 m Ø 50 mm	<b>052-0249</b>



### Linear meter (for extension or self-manufacturing)

Ø 40 mm	<b>052-0130</b>
Ø 50 mm	<b>052-0230</b>



### Fitting (suction side) for PP-hose antistatic

Ø 40 mm	<b>052-0140</b>
Ø 50 mm	<b>052-0240</b>



### Fitting (boiler side) for PP-hose antistatic incl. retaining ring

Ø 80 - 40 mm	<b>052-0159</b>
Ø 80 - 50 mm	<b>052-0256</b>
Ø 60 - 40 mm (only ECODust/Compact)	<b>052-0145</b>
Ø 60 - 50 mm (only ECODust/Compact)	<b>052-0244</b>

## Superflex-hose and - components

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

**Discharging** = when spiral is grounded / **Electrically conductive** =  $10^3 \Omega$



### Superflex-suction hose, electrically conductive, complete with fittings

length 3,5 m Ø 40 mm	<b>052-0153</b>
length 3,5 m Ø 50 mm	<b>052-0250</b>
length 5 m Ø 40 mm	<b>052-0154</b>
length 5 m Ø 50 mm	<b>052-0251</b>



### Linear meters (for extension or self-manufacturing)

	<u>conductive</u>	<u>discharging</u>
Ø 40 mm	<b>052-0200</b>	<b>052-0133</b>
Ø 50 mm	<b>052-0287</b>	<b>052-0233</b>
Ø 60 mm	--	<b>054-90037</b>



### Fitting (suction side) for Superflex-hose antistatic

Ø 40 mm	<b>052-0200</b>
Ø 50 mm	<b>052-0287</b>



### Fitting (boiler side) for Superflex-hose antistatic incl. retaining ring

Ø 80 - 40 mm	<b>052-0158</b>
Ø 80 - 50 mm	<b>052-0255</b>
Ø 60 - 40 mm (only ECODust/Compact)	<b>052-0144</b>
Ø 60 - 50 mm (only ECODust/Compact)	<b>052-0243</b>



(All indications concerning the diameter describe the *inner diameter* of the hose )

## PUR hoses and - components

Made of polyurethane (PUR). Enhanced by 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 / **Electrically conductive** =  $10^3 \Omega$



### PUR-suction hose, conductive, complete with fittings

length 3,5 m	Ø 40 mm	<b>052-0155</b>
length 3,5 m	Ø 50 mm	<b>052-0252</b>
length 5 m	Ø 40 mm	<b>052-0156</b>
length 5 m	Ø 50 mm	<b>052-0253</b>

**Linear meters**  
(for extension or self-manufacturing)



	<u>Conductive</u>	<u>Discharging</u>
Ø 40 mm	<b>052-0196</b>	<b>052-0136</b>
Ø 50 mm	<b>052-0281</b>	<b>052-0236</b>
Ø 70 mm	--	<b>052-0309</b>
<b>reinforced version:</b>		
Ø 40 mm	<b>052-0197</b>	<b>052-0157</b>
Ø 50 mm	<b>052-0284</b>	<b>052-0254</b>
Ø 70 mm	--	<b>052-0310</b>



### Fitting (suction side) for **PUR** -hose antistatic

Ø 40 mm	<b>052-0141</b>
Ø 50 mm	<b>052-0241</b>
Ø 70 mm	<b>052-0311</b>



### Fitting (boiler side) for **PUR** - hose antistatic incl. retaining ring

Ø 80 - 40 mm	<b>052-0160</b>
Ø 80 - 50 mm	<b>052-0257</b>
Ø 60 - 40 mm (only ECODust/Compact) =	<b>052-0146</b>
Ø 60 - 50 mm (only ECODust/Compact) =	<b>052-0245</b>

## Metal-hoses and - components

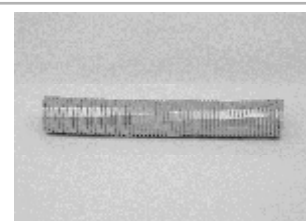
Made of metal, reinforced with metal bands and sealing threads. Axial flexible, torsionally rigid, heat proof up to 400° C.

**Suitable for dry dusts only.**



### Metal-suction hose, fiberglass-compressed, complete with fittings

length 3,5 m	Ø 40 mm	<b>052-0186</b>
length 3,5 m	Ø 50 mm	<b>052-0271</b>
length 5 m	Ø 40 mm	<b>052-0187</b>
length 5 m	Ø 50 mm	<b>052-0272</b>



**Linear meters**  
(for extension or self-manufacturing)

Ø 40 mm	<b>052-0185</b>
Ø 50 mm	<b>052-0270</b>



### Fitting (suction side) for **Metal** – hose

Ø 40 mm	<b>052-0112</b>
Ø 50 mm	<b>052-0208</b>










### Universal fitting (boiler side) for all hose types


Ø 80 - 40 mm	<b>052-0175</b>
Ø 80 - 50 mm	<b>052-0266</b>
Ø 80 - 60 mm	<b>054-90013</b>
Ø 80 - 70 mm	<b>052-0312</b>
Ø 80 - 80 mm	<b>052-0322</b>

Accessory		
	<b>PP-crevice nozzle</b> Ø 36 x 200 mm <b>052-0002</b> Ø 40 x 240 mm <b>052-0101</b> Ø 50 x 270 mm <b>052-0201</b> Ø 50 x 360 mm <b>052-0202</b>	
	<b>PP round brush</b> Ø 36 mm <b>052-0005</b> Ø 40 mm <b>052-0102</b> Ø 50 mm <b>052-0204</b>	
	<b>PP reducer</b> Ø 40 mm x Ø 36 mm <b>052-0104</b>	
	<b>PP reducer</b> To attach crevice nozzle 052-0101 and round brush 052-0102 to metal-hand tubes Ø 40 mm <b>052-0168</b>	


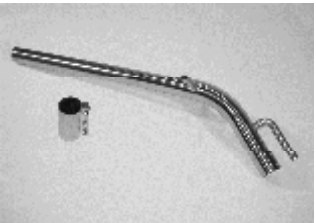
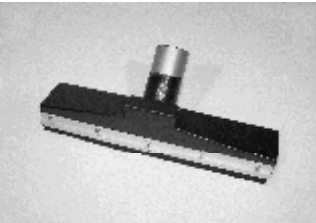

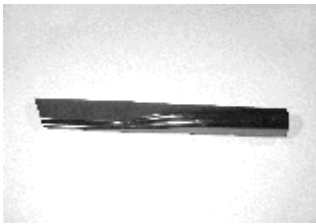
Ex - accessory		
	<b>Crevice nozzle, metal</b> Ø 40 x 300 mm <b>052-0109</b> Ø 40 x 500 mm <b>052-0108</b> Ø 40 x 800 mm <b>052-0107</b> Ø 50 x 300 mm <b>052-0218</b> Ø 50 x 600 mm <b>052-0219</b>	
	<b>Inclined tube nozzle, metal</b> Ø 40 x 300 mm <b>052-0110</b> Ø 50 x 300 mm <b>052-0217</b>	
	<b>Crevice nozzle metal, curved</b> Ø 50 mm <b>052-0220</b>	
	<b>Rubber crevice nozzle, with connecting tube</b> Antistatic Ø 40 x 400 mm <b>052-0150</b> Ø 50 x 430 mm <b>052-0203</b>	<b>NEW</b>

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

Accessory	
	<b>Floor nozzle with carpet strip and lateral rollers</b> Ø 40 x 400 mm <b>052-0118</b> Carpet strip for replacement <b>052-0030</b>
	 <b>Alu-floor nozzle with rollers and</b> <b>Brush strip</b> Ø 40 x 370 mm <b>052-0120</b> Ø 40 x 450 mm <b>052-0121</b> Ø 50 x 370 mm <b>052-0213</b> Ø 50 x 450 mm <b>052-0214</b> Ø 50 x 500 mm <b>052-0215</b> <b>Rubber strip</b> Ø 40 x 370 mm <b>052-0192</b> Ø 40 x 450 mm <b>052-0193</b> Ø 50 x 370 mm <b>052-0276</b> Ø 50 x 450 mm <b>052-0277</b>
	<b>Brush strip for replacement</b> length 370 mm <b>052-0173</b> length 450 mm <b>052-0171</b> length 500 mm <b>052-0264</b> <b>Rubber strip for replacement</b> length 370 mm <b>052-0174</b> length 450 mm <b>052-0172</b> length 500 mm <b>052-0265</b> <b>Oil resistant rubber strip</b> length 370 mm <b>052-0194</b> length 450 mm <b>052-0195</b> length 500 mm <b>052-0280</b>

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

Ex - Accessory	
	<b>Flat rubber nozzle with connecting tube</b> Antistatic Ø 40 mm <b>052-0126</b> Ø 50 mm <b>052-0223</b> Ø 70 mm <b>052-0304</b>
	<b>Pointed rubber nozzle with connecting tube</b> Antistatic Ø 40 mm <b>052-0124</b> Ø 50 mm <b>052-0221</b>
	<b>Inclined tube rubber nozzle</b> With connecting tube, antistatic Ø 40 mm = <b>052-0125</b> Ø 50 mm = <b>052-0222</b> Ø 70 mm = <b>052-0303</b>
	<b>Solid PP round brush</b> Rubber with connection tube, broad brush head with brass components, antistatic Ø 40 mm = <b>052-0103</b> Ø 50 mm = <b>052-0205</b>

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

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



## 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 MAC will be considered: It defines the maximum allowable concentration. As lower the MAC, as more dangerous the dust.

### **Dust class L:**



Dust of dust class L are considered as "light" dangerous, so that the vacuum cleaner requirements are easy:

- measurement of air speed is not necessary
- no disposal requirements
- "normal" filtering requirements.

For all dusts with  $MAC > 1 \text{ mg/m}^3$  the maximum permeability of the vacuum cleaner isn't allowed to be over 1 %!

### **Dust class M:**



Dusts of dust class M are considered as "medium" dangerous. The vacuum cleaner requirements are:

- measurement of air speed
- Disposal: "low dust"
- "high" filtering requirements

For all dusts with  $MAC > 0,1 \text{ mg/m}^3$  and for wood dust.

The maximum permeability of the vacuum cleaner isn't allowed to be over 0,1 %!

### **Dust class H:**



Dusts of dust class H are considered as "high" dangerous. The vacuum cleaner requirements are:

- measurement of air speed
- Disposal "dust free"
- "highest" filtering requirements

For all dusts with  $MAC < 0,1 \text{ mg/m}^3$  (incl. cancer-causing dusts, dusts with germs/bacteria, asbestos\*), the maximum permeability of the vacuum cleaner isn't allowed to be over 0,005 %!

\*) in Germany additional requirements according to TRGS519 have to be fulfilled for asbestos.

## 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 incl. annexes AA and CC as well as ATEX 94/9/EG

Please note: All EVOTEC machines are equipped with Type 22-suitable accessories, to eliminate mistakes!



## Our measures for quality assurance:

We guarantee constant highest quality. Beside the machine guidelines there are many other legal requirements, like 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.

**HydroClean**  
s.r.o.

— čistící zařízení —