ACfilter

OVERPRESSURE FILTER SYSTEMS

Health @work

Clean air for a better world

INDEX

1. GENERAL INFORMATION

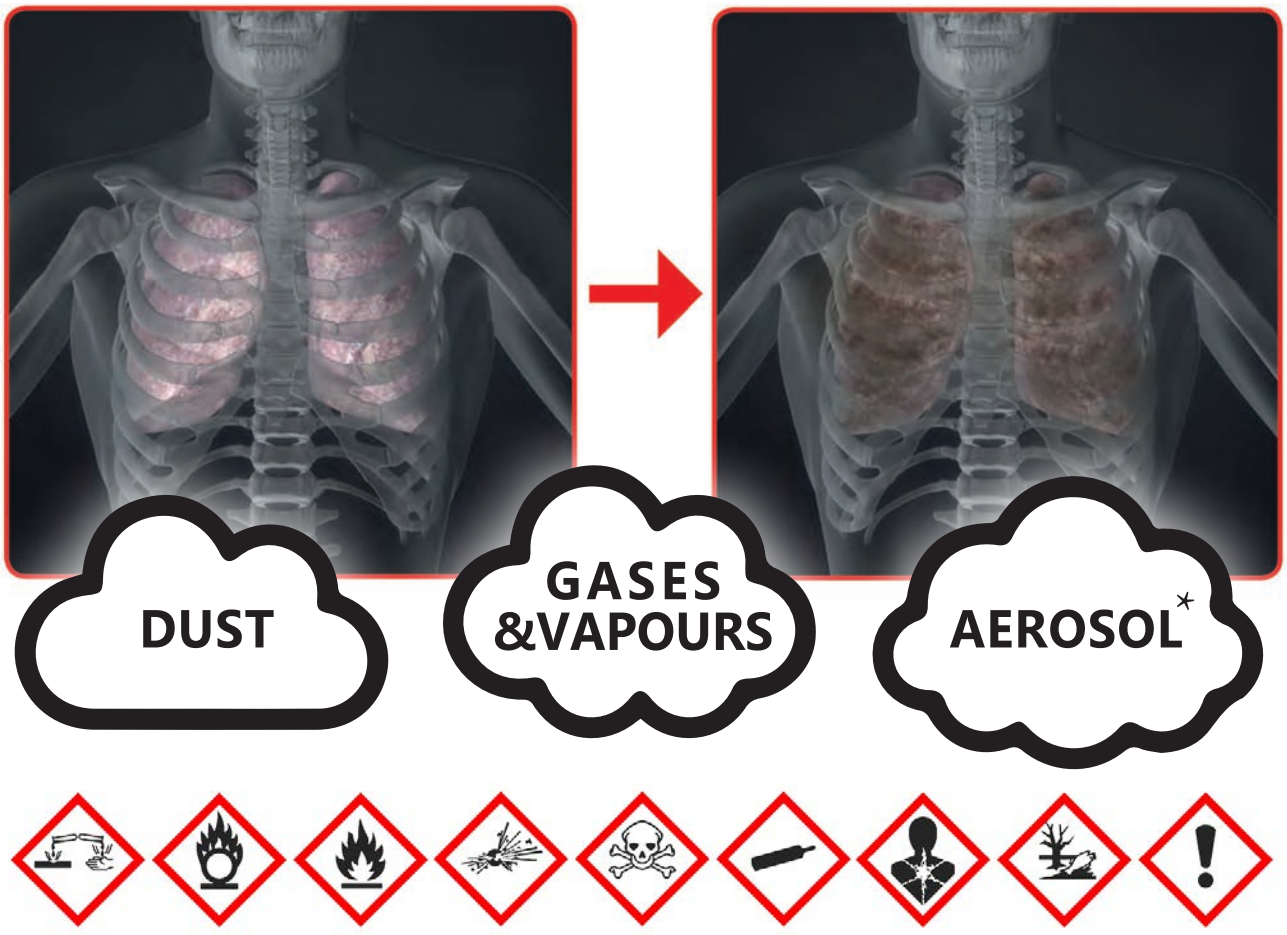
AC Filter has developed a range of Pressurized Filtration Systems
which meet all requirements as stated in the CROW-400, NEN 4444, NEN-EN 12941, NEN-EN 1822
NEN-EN -ISO 16890

1.1 Why would I need a Pressurized Filtration System?

When the concentration of dust, gas/ vapour or other aerosol* in the air is so high that there's no clean breathing air left in the cabin, we speak of air pollution. A pressurized filtration system is categorized as personal protective equipment (PPE). This system will purify the air in the cabin and make it safe to breathe.

This system:

- Prevents lung diseases such as asthma, bronchitis or worse for you or your colleagues
- Reduces the risk of sick absence of staff
- Protects your equipment and electrics in your machine
- Prevents prolonged (lung)diseases and unnecessary healthcare costs



*AEROSOL: Chemical & Biological particles in the air (atomized)

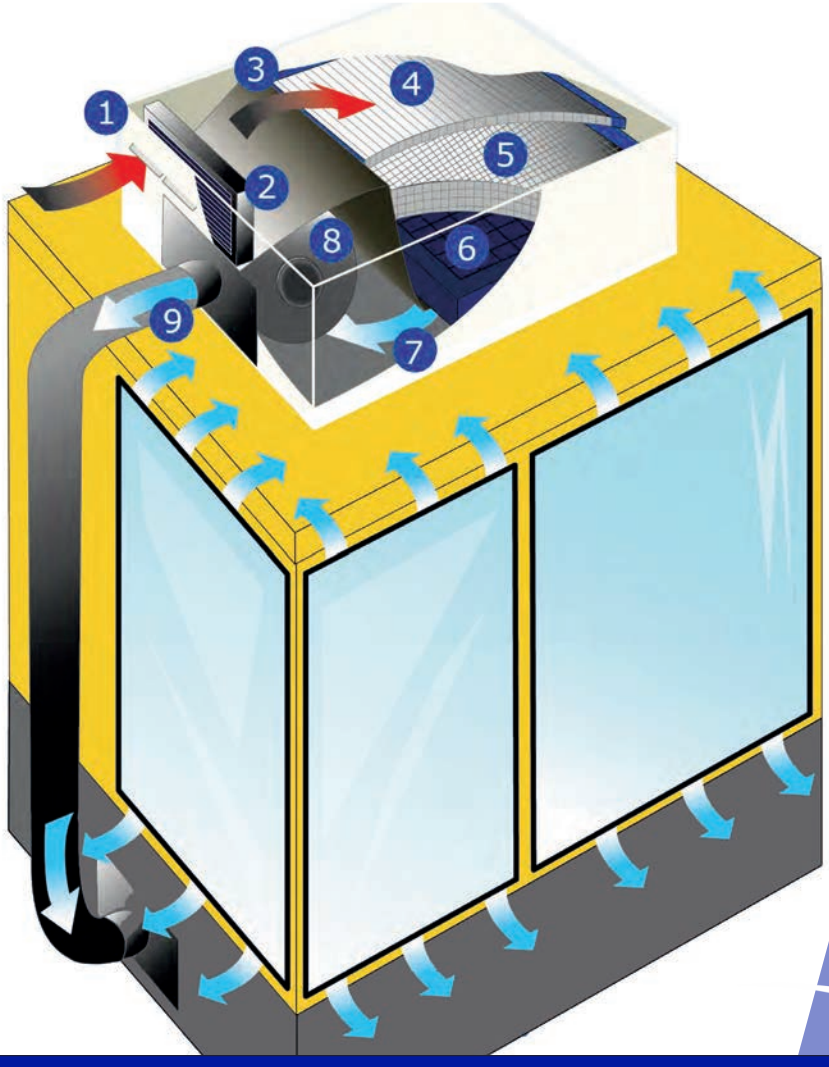
1.2 When do I need a Pressurized Filtration System?

For example when you are dealing with demolition or soil remediation, a pressurized filtration system is mandatory.
A safety officer monitors workplace activities to ensure that workers comply with company policies and government safety regulations. Safety officers inspect interior and exterior work areas to determine if there are any safety hazards. They usually decide when it's necessary for a driver / operator to use a Pressurized Filtration System. But also when drivers / operators find it necessary to have this type of system, they are obligated to request this system themselves.

1.3 How the system is built

The Pressurized Filtration System consists of a filter unit, controller, blower and dust HEPA and/or carbon filters. Air from outside is sucked into the system, then the air passes through dust and/or carbon filters. The clean filtered air is now blown into the cabin for you to breath during worktime.

1.4 How the system works



Health @work

1 | Air inlet
2 | Pre-filter P1 (G4)
3 | Polluted air
4 | Dust filter P1 (G4)
5 | HEPA filter P3 (H13)
6 | Carbon filter
7 | Filtered air
8 | Blower
9 | Air outlet

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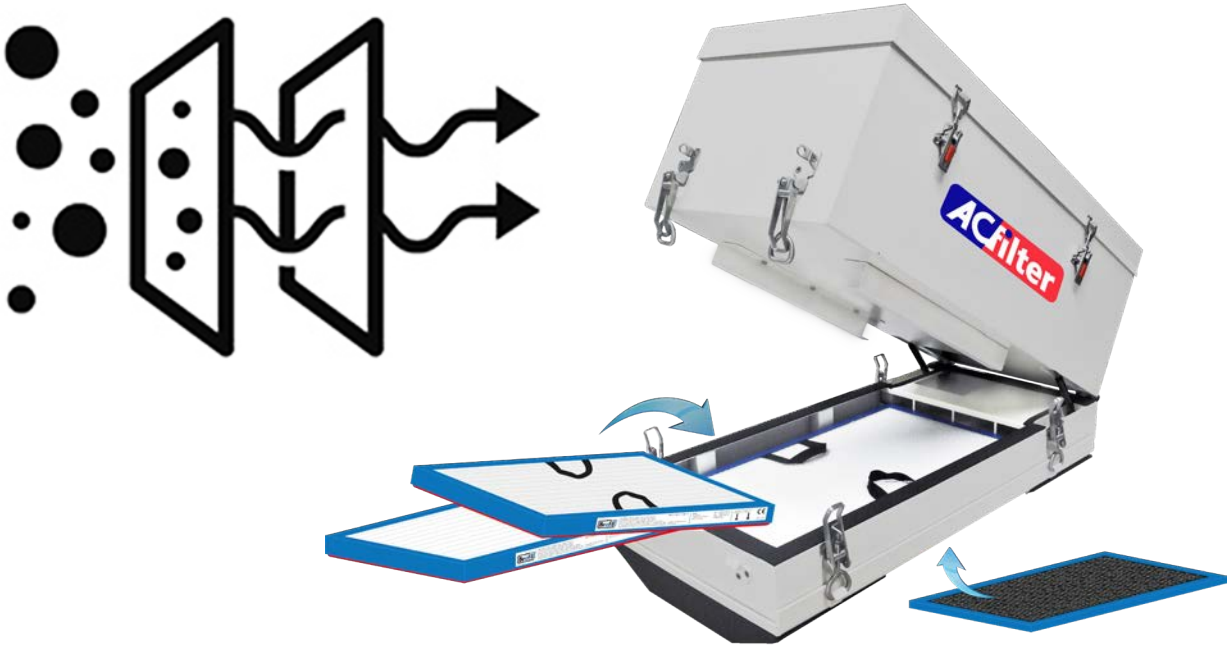
1. GENERAL INFORMATION

1.4.1 New feature: Forced Air

In cooperation with the Dutch companies TNO & Proqares, we have learned that Air Blast Filtration is the most efficient way to filter polluted air. This method is applicablefor military purposes and used in the AC10 forced air.

ABF means that air is pressed through the filters. This results in equal pressure on both sides of the filter to make sure that no air can slip through the sealing of the filters.

You make optimal use of the system and 100% clean breathing air is guaranteed!



1.4.2 What is necessary for a functioning system?

Beside a Pressurized Filtration System, airconditioning is needed to ensure a fresh and healthy work environment in your vehicle.

For optimum operation of the Pressurized Filtration System it is necessary to completely seal the cabin/workspace. No contaminated air can enter so pressure in the cabin remains optimal. The minimum pressure value is 120 Pa.

Our units will be equipped with an ACF controller. This monitoring device determines and controls the cabin air quality. The system is especially designed to maintain pressure in the cabin.

CAUTION: If the cabin is not sealed properly (large gaps, receding doors, holes) then the required pressure can not be achieved and unfiltered air can enter the cabin. With open windows and/ or doors, the pressure is no longer present. When closed, the system will automatically rebuild the correct amount of pressure in your cabin.

1.6 What is the system made of?

All AC Filter Pressurized Filtration Systems are completely made of Inox 304 (Stainless Steel and powder coated), including all fasteners. Some of the systems have a high quality plastic cover, like the AC4 Combi.

The carbon filter frames are made of galvanized steel. All of our dust filters have an aluminum frame.

AC Filter Pressurized Filtration Systems are powder coated standard in RAL 7047.
On request other colors are available.

All our Pressurized Filtration Systems carry the CE mark.

2. TYPES OF FILTER UNIT

In order to meet all requirements, we have a range of filter units for each machine and each application, including offices and control rooms as well as mobile equipment. All systems can be installed on a quick exchange frame. With this frame all of our systems can simply be exchanged between machines

2.1 AC4 Combi

The AC4 Combi is our most popular system and is ideal for use in the onroad & offroad sectors, mostly trucks.
AC Filter has designed special roof hatch adapters for assembly to make sure that everything fits perfectly.
The AC4 Combi is available in models where the air is expelled either from the rear or bottom, which also makes it suitable for installation on the back of the machine.
This system can be used for work in the 3T (heavy) contamination class, but also in cases of mixed contaminations, such as for composting work and asbestos removal projects.

Dimensions	735 x 660 x 205 mm
Weight	32 kg
Voltage	12 VDC & 24 VDC
Power	180W (12VDC), 120W (24VDC)
Current	max 16,7 A
Standard colour	RAL7047
Filter dimensions	600 x 336 mm
Material unit	Stainless Steel SS304
Material hood	Plastic ABS
Max. overpressure	444 Pa, 120m3/h
Filter possibilities	10 kg Carbon, P1, P2, P3 (HEPA)
Mounting	Horizontally or Vertical
Filter detection	2x
Controller	ACF

2. TYPES OF FILTER UNIT

2.2 AC6 Standard

The AC6 Standard is ideal for use with excavators and loaders.
The unit can be assembled on the engine compartment behind the cabin or even on the vehicle's mud-guard.
The AC6 Standard has larger filter capacity than the AC8 Ultra Low to provide a greater number of filter combinations

Dimensions	850 x 450 x 305 mm
Weight	41 kg
Voltage	12 VDC & 24 VDC
Power	180W (12VDC), 120W (24VDC)
Current	max 16,7 A
Standard colour	RAL7047
Filter dimensions	600 x 336 mm
Material unit	Stainless Steel SS304
Material hood	Stainless Steel SS304
Max. overpressure	444 Pa, 120m3/h
Filter possibilities	10 kg Carbon, P1, P2, P3 (HEPA)
Mounting	Horizontal
Filter detection	2x
Controller	ACF

2.3 AC8 Ultra Low

The AC8 Ultra Low has been specially developed for off-road machines with limited assembly space.
This unit combines compact dimensions with full capacity.
The AC8 Ultra Low does not make use of a pre-filter

Dimensions	850 x 450 x 260 mm
Weight	38 kg
Voltage	12 VDC & 24 VDC
Power	180W (12VDC), 120W (24VDC)
Current	max 16,7 A
Standard colour	RAL7047
Filter dimensions	600 x 336 mm
Material unit	Stainless Steel SS304
Material hood	Stainless Steel SS304
Max. overpressure	444 Pa, 120m3/h
Filter possibilities	10 kg Carbon, P1, P2, P3 (HEPA)
Mounting	Horizontal
Filter detection	2x
Controller	ACF

2. TYPES OF FILTER UNIT

2.4 AC10 Forced Air

One of the latest innovations of the AC Filteer Pressurized Filtration System is the AC10 Forced Air.

This unit has two filter compartments: The upper unit and the lower unit. These two parts can be opened with one push due to two gas cylinders.

The gas cylinders are activated when the unit gets unbuckled. When the air enters the system, it will first pass a water repellent filter at the bottom of the system. Then through dust filters in the lower unit and at last through the upper unit's dust and/or carbon filters

Dimensions	850 x 450 x 415 mm
Weight	62 kg
Voltage	12 VDC & 24 VDC
Power	180W (12VDC), 120W (24VDC)
Current	max 16,7 A
Standard colour	RAL7047
Filter dimensions	600 x 336 mm
Material unit	Stainless Steel SS304
Material hood	Stainless Steel SS304
Max. overpressure	444 Pa, 120m3/h
Filter dimensions	10 kg Carbon, P1, P2, P3 (HEPA)
Mounting	Horizontal
Filter detection	2x
Controller	ACF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3. TYPE OF FILTER

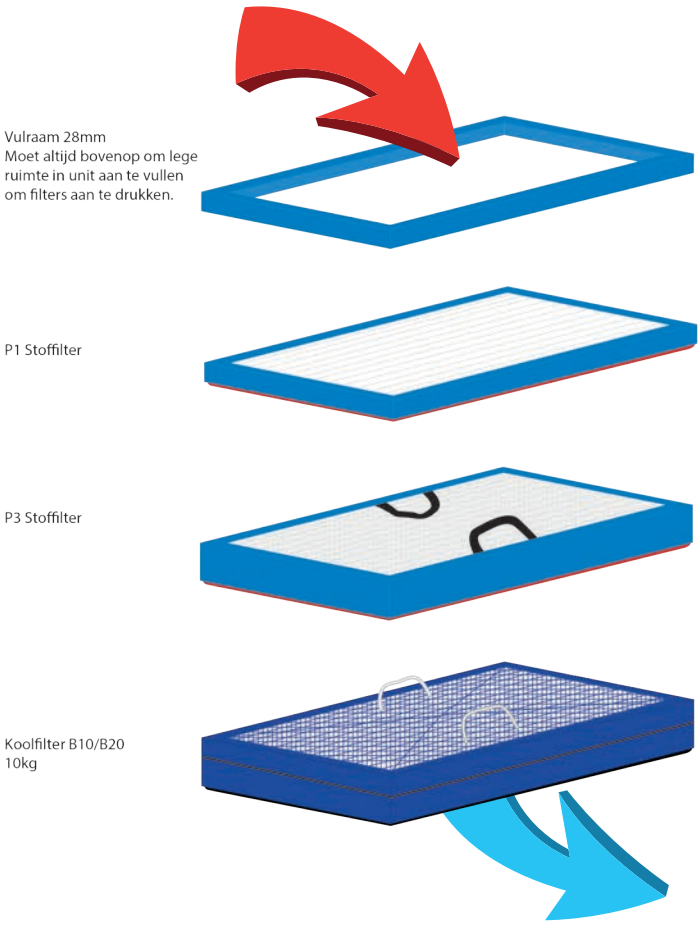
All our filters meet the standard NEN-EN 12941, NEN-EN 1822 and NEN-EN -ISO 16890

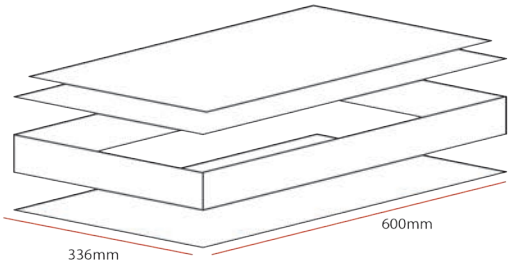
3.1 Pre-filter

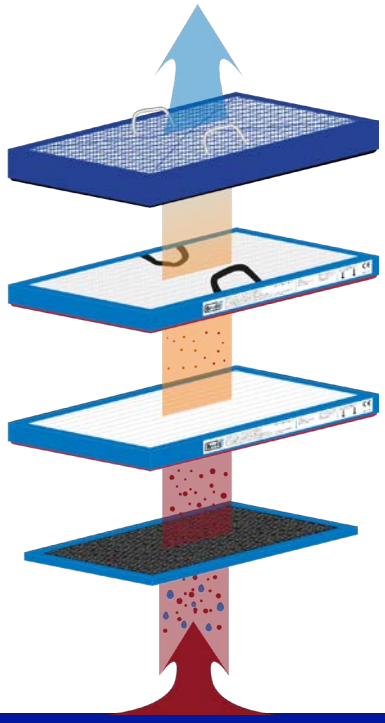
A pre-filter is placed to ensure the coarse dirt is collected first and to extend the life span of the dust, HEPA and carbon filters.

3.2 AC Filter Dust filters

Dust filters function as a sieve. The dust particles are collected by the P1 (G4) and/or P3 (H13) HEPA filters. It depends on the amount and density of the dust particles which dust filter you need.
Dust filters should be replaced when showing heavy contamination or up to 6 months after commissioning. Used filters should be treated as hazardous waste and must be disposed of in accordance with the rules of the Environmental Protection Act.







3.2.1 P1 Dust filter - Specifications

This type of filter provides protection against the inhalation of dust with the a MAC- value of >10 mg/m³

Dimentions	600x336x28 mm
Filter class	P1 / G4
Filter surface	0,2 M^2
Material frame	Aluminium

3.2.2 P2 Dust filter - Specifications

This type of filter provides protection against the inhalation of dust with the a MAC- value of >0,1-10 mg/m³

Dimentions	600x336x28 mm
Filter class	P2 / F9
Filter surface	4 M^2
Material frame	Aluminium

3.2.3 P3 HEPA filter - Specifications

This type of filter offers protection against the inhalation of toxic fine dust, asbestos, spores, bacteria, viruses, proteolytic enzymes, substances which are human carcionogens, with the a MAC- value of 0,1 mg/m³. These substances are generally referred to as materials from fabric class 2c.

Dimentions	600x336x28/60 mm
Filter class	P3 / H13
Filter surface	4 M^2
Initial Resistance	327m^3/h bij 125 Pa
Material frame	Aluminium

*** Available in 28mm and 60mm!**

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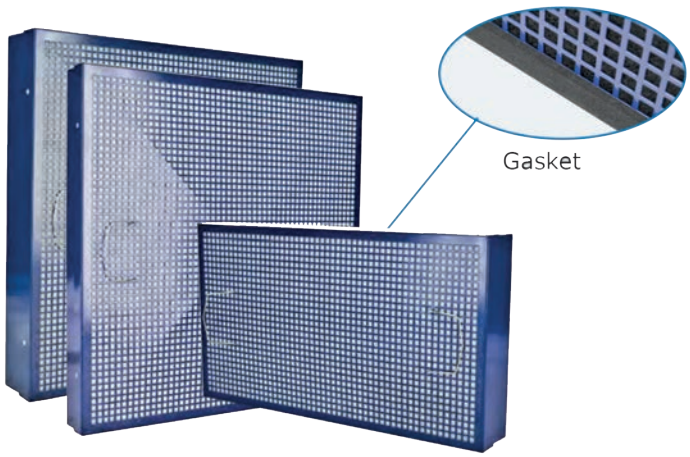
3. TYPE OF FILTER

3.3 AC Filter Carbon filters

Carbon filters type A work to attract and bind molecular contamination. These filters are suitable for all aromatic hydrocarbons.

B, E, K and HG-filters (or a combination of these) are filters that are used for contaminants other than hydrocarbons, such as mercury or acids.

ABEK-filters are certified according to EN14387.



Carbon filter A	against the inhalation of	Organic substances
Carbon filter B	against the inhalation of	Inorganic substances
Carbon filter E	against the inhalation of	Acid gases
Carbon filter K	against the inhalation of	Ammonia
Carbon filter Hg	against the inhalation of	Mercury

Carbon filters can contain different forms of carbon, it is therefore necessary to know for what application the filters will be used. Below you can see all the carbon filter types that we provide with their application so that you can evaluate the type required.

COLOUR MARK	TYPE	APPLICATION	STANDARD
	A	Organic gases and vapours-boiling point > 65º	EN 141
	B	Inorganic gases and vapours (no CO), e.g., chlorine, H2S, HCN, etc.	EN 141
	E	Sulphur dioxde and acid gases and vapours	EN 141
	K	Ammonia and organic derivatives of ammonia	EN 141
	HG	Mercury vapors and particles	EN 141

3.3.1 AC Filter Carbon filter 10kg - Specifications

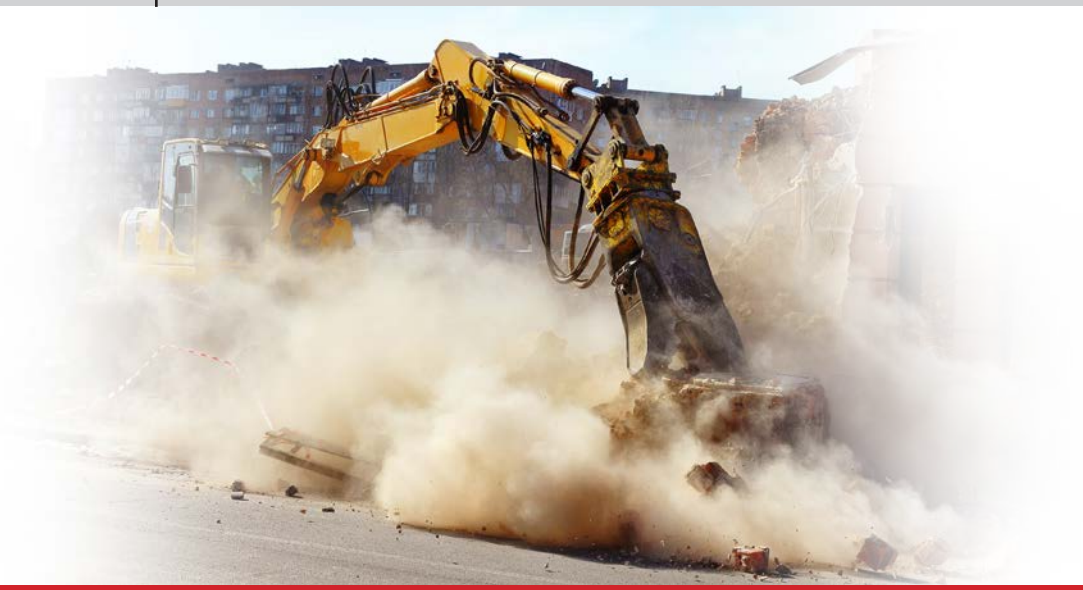
Dimentions	600x336x92 mm
Filter class	A2
Filtercontent	9,25 / 18,5 dm^2
Material frame	Zincor

3. TYPE OF FILTER

3.4 AC Filter Carbon filter - Index, odors / gases / vapours

Indexation of 1 to 4 gives the absorption capacity of carbon type A for common odors/gases/vapours, air cleaning based on low concentrations.

INDEX	DESCRIPTION ABSORPTION CAPACITY
1	Very low absorption capacity. In the application 'odor removal' type A is not suitable. Contact us.
2	Absorption capacity is low, however, with an application 'odor removal' are combinations of filters suitable.
3	Reasonable absorption capacity. Approx. 50-100 gr.(odor/gas/vapour) per kg. activated carbon.
4	Good absorption capacity. Approx. 100-200 gr.(odor/gas/vapour) per kg. activated carbon.



ATTENTION! Always keep carbon filters in their original sealed packaging when being stored. Carbon will start to deteriorate immediately if it is exposed to outside ir or gasses. The filtration rate is limited by the absorption capacity. Once a carbon filter is used and saturated it should be treated as 'Chemical Waste' and needs to be disposed of responsibly (check your local regulations). AC Filter advises that protective clothing and breathing protection should always be used when managing filters.

INDEX LIST

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INDEX LIST

Order AC Filter type B, E, K, Hg or combination filters to optimize the range of filtration.

Always consult the Health & Safety Officer before ordering!

3.5 Filter Packages

As examples, if you are working in an asbestos or organic waste area, we have special filter packages so you know for sure the filters will provide all the required protection.

3.5.1 General package for AC4 Combi series

- P1 dust filter
- Type A carbon filter, 10kg

3.5.2 General package for AC6 Standard

- P1 dust- or a P3 HEPA filter
- Type A carbon filter, 17kg
- Type A carbon filter, 22kg.

3.5.3 General package for AC6 Standard / AC8 Ultra Low

- P1 dust filter
- P3 HEPA filter (h=60mm)

3.5.4 General package for AC6 Standard / AC8 Ultra Low

- P3 HEPA filter (h=28mm)
- Type A carbon filter, 10kg

3.5.5 General package for AC6 Standard

- P1 dust filter
- P3 HEPA filter (h=28mm)
- Type A carbon filter, 10kg

3.6 Filter Certificate

Upon delivery of each filter, you receive the corresponding filter certificate.
This certificate shows you which filter you possess, with its partnumber and serial number. You can also find technical specifications on this certificate. For example the filter class, the filter content, etc.
On the right is an example of the certificate for a P1 (G4) dust filter.


Fillflex
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61-1001
FILTERCERTIFICATE
P1 DUST filter for AC Filter2, AC4, AC6, AC8 & AC10
Pressurized Filtration Systems
Specification
Item no. : 61-1001
Serial no.
Filter Class : P1 / EU4/5
Dimensions : 600x336x28
Initial Resistance : 8,6 m³/h at 24 Pa (0.003 Psi)
Filter surface area : 0,2 m²
Frame Material : Aluminium
P1
This type of filter provides profection against inhalation of dust with a MAC value of 10mg/m3 or more. Our filters meet the standard 1822
Legislation
Dust filters should be replaced by sprong visible contamination or up te 6 months after commissioning. Used filters should be regarded as hazardous waste and must be disposed of in accordance with the rules of the Environmental Protection Act.
Warranty
Fillflex BV is responsible for the proper operation of the equipment supplied if it is maintained according to specifications and if only original AC filters.
Ing. André Bout

3.7 What do I need to pay attention to?

For every type of pollution there is a different filter available.
Therefore you should always seek advice from the Health & Saftey Officer in your company. If you don't have a Health & Saftey Officer, you can contact us for the best advice.

Mail : info@fillflex.nl

4. ACF CONTROLLER V2

Our Pressurized Filtration Systems are standard equipped with an ACF controller.
This monitoring device controls air quality in the cabin.
The system is designed to maintain a preset value of 120Pa. in the cabin.

The ACF will automatically turn on when the vehicle is started.
At the same time the ACF checks the presence of filters in the unit.
It will give a signal if there aren't any filters present.

We offer different types of ACF controls. The first available is the ACF Basic with CO^2 measurement.

4.1 ACF Basic Controller

- On-off button.
- Filter detection.
- Pressure can be adjusted with buttons.
- Changeable between machines with V3 bracket.
- Standard equipped with PPM sensor.
- More user-friendly because of the large buttons.

Features

- Pressure value setting
- Dust detection
- Filter detection
- Hydrocarbon detection

5. REGULATION

5.1 CROW 400

According to the CROW400 publication, the following requirements are listed:

- The 'Pressurized Filtration System' must carry the CE-mark.
- The placement of the unit on the machine must never obstruct the visibility of the operator.
- The unit must be able to withstand shocks and point loads.
- The minimum pressure value in the cabin is 100Pa. (0,015Psi).
- The maximum allowable pressure is 300Pa. (0,044Psi).
- For machines that are manufactured before 01-01-1997, the minimum pressure is 50Pa. (0.007Psi)
- The air output of the unit should be between: 40m3/h and 120m3/h.
- The system should be carried out in such a way that air inlet is only directed through the filters.
- The air inlet point must be situated in a way that it is impossible for exhaust gas to re-enter the system.
- In order to ensure clean breathing air, the system should automatically start when turning on the machine.
- An optical and/ or an acoustic warning device must be mounted in the machine in order to monitor the pressurization, presence of filters and to detect harmful substances.
- The installation and seals are constructed in such a way that leakage between the housing and filters is excluded.
- The 'Pressurized Filtration System' must be inspected after assembly & mounting.
  The system should also be checked annually on the points as listed above.

5.2 NEN 4444

Since 2010 the NEN4444 is in practice. This is a directive that specifically focuses on the use of 'Pressurized Filtration System' and makes demands on the system, the warning device and the filters.

'PRESSURIZED FILTRATION SYSTEM'

- The pressure inside the cabin is more than 100Pa. If more than 300Pa it should be possible the re-adjust the fan.
- A contact time of the Carbon filter is necessary in order to ensure the air output of the unit is between: 40m³/h and 120m³/h.
- The system installation should be carried out in such a way that air inlet is only directed through the filters.
- The electrical installation of the system meets the EN-IEC60204-1.
- CE-label must be present on the unit and controller. (in accordance with Machinery Directive.) This does not apply for filters.

5.3 ISO 23875

- Mandatory monitoring of the CO2 level inside the cabin

SIGNALING

- In order to see if the unit is in use and if filters are mounted, an indicator (ACF) is present.
- The ACF must be visual from the cabin.
- Hydrocarbon detection is required when using Carbon filters. (If purchased, it displays a warning with a 5PPM top limit.)
- There is an ACF that displays the actual differential pressure with a visual and audible warning if it exceeds the limit values. Installation.
- The placement of the unit on the machine must never obstruct the visibility of the operator, nor the regular activities inside the cabin.
- The air inlet is positioned in such a way that it is impossible for exhaust gas to reenter the system.
- The air outlet should never cause any nuisance air flow.
- The monitoring equipment is installed in such a way it can be observed while working with the machine.
- The climate control system should be installed in such a way that air inlet is only possible through the 'Pressurized Filtration System'

FILTERS AND USAGE

- Filters must all be tested for leaks and be delivered with a certificate.
- G4 & F7-9 Dust filters should meet EN779.
- H13 should meet EN1822.
- Carbon filters should meet EN12941 (format ABEK) . The given airflow needs to go through at least 10Kg Filters.
- Operating hours of the filters & 'Pressurized Filtration System' and the filter maintenance etc. should be kept in a Logbook.

LABELLING

- The 'Pressurized Filtration System' must have warning label W01, as a visible warning on the use of appropriate PPE.
- The installed filters must have a label listed indicating the type of filter, filter class manufacturer and installation date.

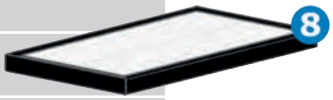
6. PRODUCT RANGE WITH PART NUMBERS

On the following pages, you can view our product range (and Spare Parts) with the corresponding part numbers with pictures.

We are continuously innovating products. All common parts are in this brochure.
If there is something you need and it is not in this brochure, please mail or call us for any spare part.

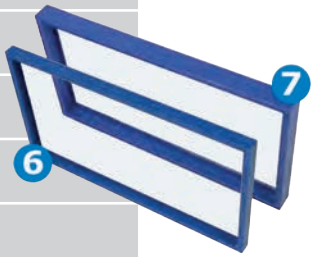
6.1 Filter systems

6.1.1 AC4 Combi



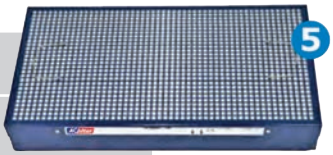
PIC.	PART NUMBER	DESCRIPTION
1	57-1205	Filterbox AC8 with ACF V3 24V
1	57-1209	Filterbox AC8 with ACF Basic 24V
1	57-1211	Filterbox AC8 with ACF Plus 24V
1	57-1213	Filterbox AC8 with ACF Premium 24V
1	57-1208	Filterbox AC8 with ACF Basic 12V
1	57-1210	Filterbox AC8 with ACF Plus 12V
1	57-1212	Filterbox AC8 with ACF Premium 12V
1	57-1203	Filterbox AC8 with 3-mode switch 24V
1	57-1202	Filterbox AC8 with 3-mode switch 12V
2	61-1001	AC Filter AC8 Dust filter P1
3	63-1001	AC Filter AC8 HEPA filter P3 (28mm)
4	63-1002	AC Filter AC8 HEPA filter P3 (60mm)
5	64-1050	AC Filter AC8 Carbon filter A 10kg
6	60-0001	AC Filter AC8 Frame 28mm
7	60-0002	AC Filter AC8 Frame 45mm

6.1.2 AC6 Standard



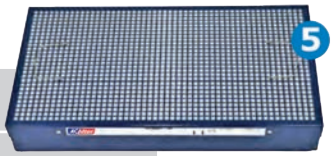
PIC.	PART NUMBER	DESCRIPTION
1	57-1305	Filterbox AC6 C with ACF V3
1	57-1309	Filterbox AC6 C with ACF Basic 24V
1	57-1311	Filterbox AC6 C with ACF Plus 24V
1	57-1313	Filterbox AC6 C with ACF Premium 24V
1	57-1308	Filterbox AC6 C with ACF Basic 12V
1	57-1310	Filterbox AC6 C with ACF Plus 12V
1	57-1312	Filterbox AC6 C with ACF Premium 12V
1	57-1303	Filterbox AC6 C with 3-mode switch 24V
1	57-1302	Filterbox AC6 C with 3-mode switch 12V
2	61-1001	AC Filter AC6 Dust filter P1
3	63-1001	AC Filter AC6 HEPA filter P3 (28mm)
4	63-1002	AC Filter AC6 HEPA filter P3 (60mm)
5	64-1050	AC Filter AC6 Carbon filter A 10kg
6	60-0001	AC Filter AC6 Frame 28mm
7	60-0002 B	rofil AC6 Frame 45mm
8	61-9002	AC Filter Pre-filter AC6C/B20

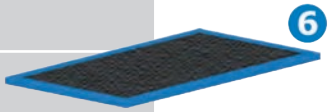
6.1.3 AC8 Ultra Low



PIC.	PART NUMBER	DESCRIPTION
1	57-1255	Filterbox AC8 SC with ACF V3 24V
1	57-1259	Filterbox AC8 SC with ACF Basic 24V
1	57-1261	Filterbox AC8 SC with ACF Plus 24V
1	57-1263	Filterbox AC8 SC with ACF Premium 24V
1	57-1258	Filterbox AC8 SC with ACF Basic 12V
1	57-1260	Filterbox AC8 SC with ACF Plus 12V
1	57-1262	Filterbox AC8 SC with ACF Premium 12V
1	57-1253	Filterbox AC8 SC with 3-mode switch 24V
1	57-1252	Filterbox AC8 SC with 3-mode switch 12V
2	61-1001	AC Filter AC8 Dust filter P1
3	63-1001	AC Filter AC8 HEPA filter P3 (28mm)
4	63-1002	AC Filter AC8 HEPA filter P3 (60mm)
5	64-1050	AC Filter AC8 Carbon filter A 10kg
6	60-0001	AC Filter AC8 Frame 28mm
7	60-0002	AC Filter AC8 Frame 45mm

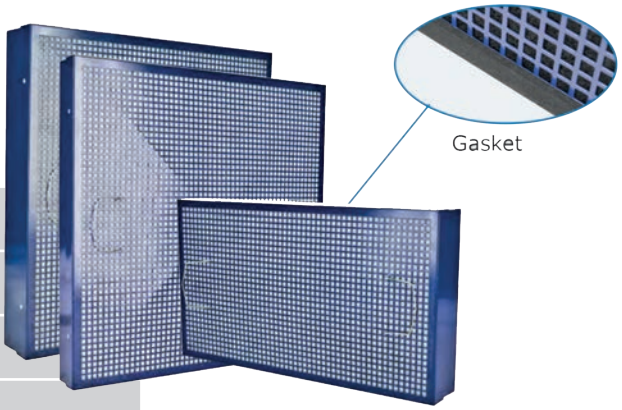
6.1.4 AC10 Forced Air





PIC.	PART NUMBER	DESCRIPTION
1	57-1559	Filterbox AC10 C ABF with ACF Basic 24V
1	57-1561	Filterbox AC10 C ABF with ACF Plus 24V
1	57-1563	Filterbox AC10 C ABF with ACF Premium 24V
1	57-1558	Filterbox AC10 C ABF with ACF Basic 12V
1	57-1560	Filterbox AC10 C ABF with ACF Plus 12V
1	57-1562	Filterbox AC10 C ABF with ACF Premium 12V
1	57-1553	Filterbox AC10 C ABF with 3-mode switch 24V
1	57-1552	Filterbox AC10 C ABF with 3-mode switch 12V
2	61-1001	AC Filter Dust filter P1
3	63-1001	AC Filter HEPA filter P3 (28mm)
4	63-1002	AC Filter HEPA filter P3 (60mm)
5	64-1050	AC Filter Carbon filter A 10kg
6	61-9006	Water Resistant filter (Nylon)

6.2 Carbon filters



PART NUMBER	DESCRIPTION
64-1040	AC Filter Carbon filter A 46mm
64-1050	AC Filter Carbon filter A 92mm
on request	AC Filter Carbon filter B 46mm
64-1051	AC Filter Carbon filter B 92mm
on request	AC Filter Carbon filter E 46mm
64-1052	AC Filter Carbon filter E 92mm
on request	AC Filter Carbon filter K 46mm
64-1053	AC Filter Carbon filter K 92mm
on request	AC Filter Carbon filter AB 46mm
64-1054	AC Filter Carbon filter AB 92mm
on request	AC Filter Carbon filter AE 46mm
64-1055	AC Filter Carbon filter AE 92mm
on request	AC Filter Carbon filter AK 46mm
64-1056	AC Filter Carbon filter AK 92mm
on request	AC Filter Carbon filter ABE 46mm
on request	AC Filter Carbon filter ABE 92mm
on request	AC Filter Carbon filter AEK 46mm
64-1057	AC Filter Carbon filter AEK 92mm
64-1048	AC Filter Carbon filter ABEK 46mm
64-1058	AC Filter Carbon filter ABEK 92mm
on request	AC Filter Carbon filter ABEK Hg 46mm
64-1059	AC Filter Carbon filter ABEK Hg 92mm
on request	AC Filter Carbon filter Hg 46mm
64-1060	AC Filter Carbon filter Hg 92mm
64-1061	AC Filter Carbon filter AMMONOSORB 92mm

Depending on the kind of pollution in which the machine is located, all carbon combinations are possible.

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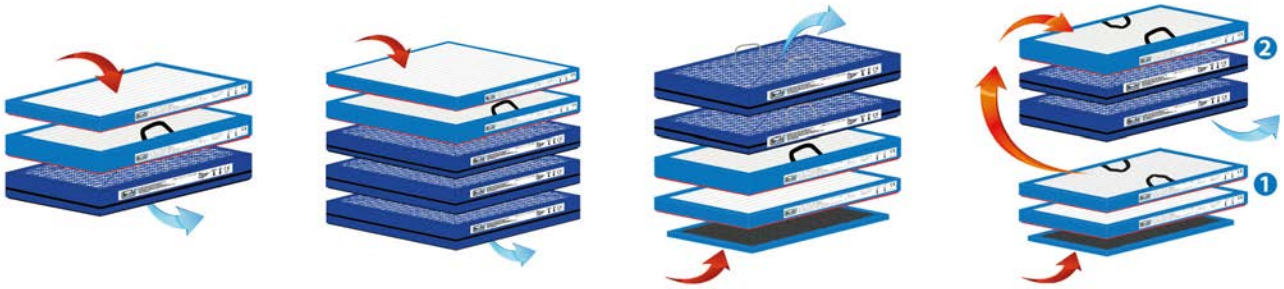
6. PRODUCT RANGE WITH PART NUMBERS

6.3 Filter packages

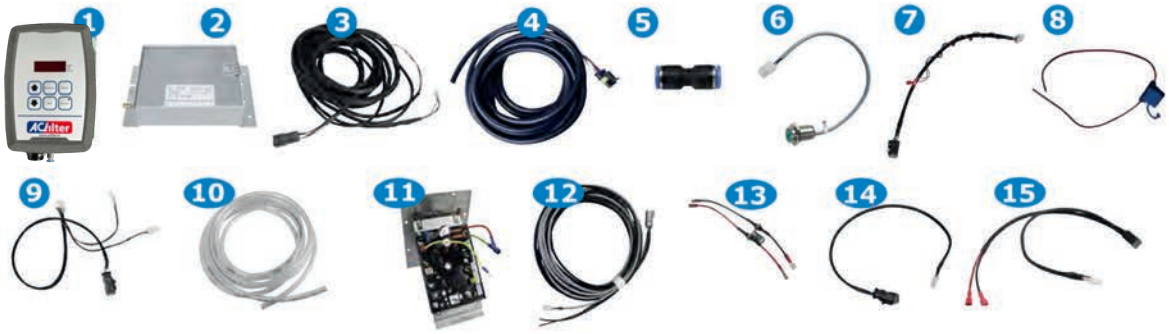


PART NUMBER	DESCRIPTION
on request AC Filter	General package for B10 series/B20 Compact
on request AC Filter	General package for B30 Compact
on request AC Filter	Asbestos package for B10 series/B20 Compact
on request AC Filter	Asbestos package for B30 Compact
on request AC Filter	Compost package for B10/ B10 Super Compact
on request AC Filter	Compost package for B10 Compact
on request AC Filter	Compost package for B20 Compact
on request AC Filter	Compost package for B30 Compact

6.4 ACF sets

PIC	PART NUMBER	DESCRIPTION
1	55-3002	ACF Basic
2	55-2103	ACF Basic +
3	55-2104	ACF V4 Plus (filterdetection)
4	55-2104	ACF V4 Premium (gastdetection)
5	55-2100	Bracket Remote board ACF V4.0
6	55-2203	ACF Green V3 Complete

6.5 Spare parts



3-mode switch parts:

Blower:

Closure and parts:

Airhose and parts:

Electric parts:

Screws, nuts and wrashers:

Sealing:

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6. PRODUCT RANGE WITH PART NUMBERS

PIC	PART NUMBER	DISCRIPTION
1	55-2002	ACF Remote Board V3 100 Pa
2	56-2205	Maindrive V3 100 Pa
3	56-2431	Mainharness ACF (long)
4	55-2009	Intermediate cable 5.3m B10
5	99-1130	Connector qss-8
6	56-2006	Proximity Switch M18 ACF
7	55-2004	Harness Maindrive - FAN ACF
8	90-6003	Fuseholder
9	55-2005	Harness Maindrive - Proximity Switch
10	55-7008	Airhose 8mm
11	55-2102	Maindrive PCB type
12	55-2106	Main Harness ACF V02
13	55-2109	Harness Motor-main V02 EMC
14	55-2108	Harness Lamp-main V02
15	55-2107	Harness Fan-main ACF V02
16	55-2014	Assy Harness blower - rear outlet
17	90-72251	Power cable 2x2.5 flat
18	55-2007	Harness 3-pos. switch B10
19	90-6001	3-position switch
20	55-2012	Resistor 3-pos. 24V
21	55-2010	Twin Blower 24V
	55-2011	Twin Blower 12V
22	55-7002	Plastic Outlet adapter 102 mm
23	55-7013	Gasket Blower
24	55-1004	Quick fastener Frame -Inox 304
25	55-1003	Quick fastener Cover -Inox 316
26	55-A3004	Quick fastener - extended
27	55-1010	Quick fastener Pre-filter B12
28	55-3003	Locking wire with hooks - Carrabine
29	55-3009	Handle Nylon

PIC	PART NUMBER	DISCRIPTION
30		
31	55-7009	Airhose 4x0.75mm
32	55-7001	Airhose RD 102mm
	55-7023	Airhose RD 80mm
33	55-7005	Hose clamp 87-112mm RVS
	55-7022	Hose clamp 70-90mm RVS
34	55-3010	Flange RD 100mm
	55-3020	Flange RD 80mm
35	55-3012	Flange plate 100mm
36	55-3016	Adapter 90mm -> 80mm
37	55-3014	Adapter 80mm -> 60mm
	55-3015	Adapter 100mm -> 80mm
38	55-3021	PVC pipe 90° 100mm bi/bu
	55-3026	PVC pipe 90° 80mm bi/bu
40	55-3022	PVC pipe 45° 100mm bi/bu
	55-3027	PVC pipe 45° 80mm bi/bu
41	55-3030	Plastic pipe 100mm x 1.8mm - sold p. meter
	55-3031	Plastic pipe 80mm x 1.8mm - sold p. meter
42	50-6001	Air grid 80mm
43	59-538001	Black painted flange + flange plate 100mm
44	55-7021	Cat Hose 80mm
45	90-002	Indicator light Green
	90-003	Light bulb 24V/3W
	90-004	Light bulb 12V/2W
46	55-7015	Bulkhead 4mm
	55-7018	Connector 6-4mm
48	90-33511	Pin contact Super seal
49	90-252	Cable slides silver Female
50	90-9788	Contact for JWPF

6. PRODUCT RANGE WITH PART NUMBERS

PIC	PART NUMBER	DISCRIPTION
51	90-372	Plug Red
52	90-371	Plug Yellow
53	90-342	Terminal connector
54	90-321	Connector 2-pole Male
55	90-341	Fuse 4pole Female AMP
56	90-6051	Insert fuse 15A
57	90-2256	Ring connector
58	90-262	Insulated cable connector - Blue - waterproof
59	90-9820	Receptacle Housing Assy
60	95-41	Washer M8 SS
61	95-21	Self locking nut
62	95-730	Hex screw bolt M8x30 SS
63	95-9181	Hexagon M8x20
64	93-9181	Hexagon socket countersunk M8x35
65	91-6301	Metal screw M4 x30
66	91-31	Spring washer M4
67	91-10	Nut M4
68	92-6101	Metal screw M5x10 SS
69	92-9101	Metal screw countersunk M5x10 SS
70	92-6161	Metal screw M5x16 SS
71	92-31	Spring washer M5
	99-1100	Seal rubber 12x3mm
72	99-1101	Seal rubber 30x3mm
73	99-1102	Seal rubber 80x3mm
74	99-1103	Seal rubber 25x20mm
	99-1104	Seal rubber 30x6mm
75	99-1000	Transparent kit (outdoor)
76	99-1010	Grey kit
77	55-3023	Glue for plastic adapters/pipes

Company name .....

Name .....

Street .....

City ..... Phone .....

Zip-code ..... Fax .....

State ..... E-mail .....

Country ..... Reference .....

AMOUNT	PART NO.	DESCRIPTION	TYPE	PAGE NO. (Brochure)
AC Filter Units				
AC Filter Units				
AC Filter ACF				
AC Filter Spare Parts				

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Brand vehicle ..... Type ..... VIN .....

Year manufact. ..... Licence plate ..... Serial number .....

Installation date ..... Type of system .....

DATE	MILEAGIE/ COUNT	TYPE OF DUST FILTER	TYPE OF CARBON FILTER	SERIAL NUMBER	* MOUNTED. REMOVED MAINTAINANCE	MEASURING DEVICE	MEASURE PRESSURE	NOTES OBSERVATION

* Mounted / removed / maintenance / fault / etc.

MEASUREMENT REPORT

Brand vehicle ..... Type .....

VIN ..... Licence plate .....

Year manufact. .....

Report number ..... Part number .....

Order number ..... Type of system .....

MOUNTED FILTERS		
Part Number	**Type**	**Serial Number**

Installation date .....

Date of measurements .....

3-mode switch ..... Pa. -Mode 1

..... Pa. -Mode 2

..... Pa. -Mode 3

ACF ..... Pa.

Note .....

Measured by .....

Employee .....

Approved by .....

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