ACfilter

OVERPRESSURE FILTER SYSTEM
AC1 COMPACT
WITH ACF BASIC CONTROLLER

USER MANUAL

USER MANUAL
OVERPRESSURE FILTER SYSTEM AC1 COMPACT

1. CE DECLARATION

CE Conformity Marking and EC Declaration of Conformity for Machinery

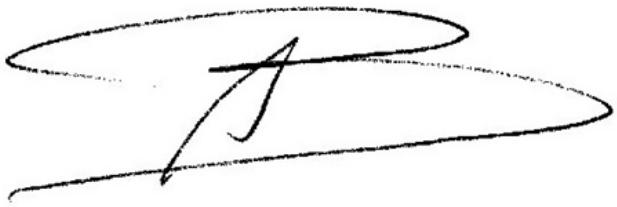
Manufacturer:
Fillflex BV
Mon Plaisir 112
4879 AT Etten-Leur

Declares that:

AC filter cabin filtration and overpressure filter systems of types AC1, AC2, AC3, AC4, AC6, AC8, AC9, and AC10, in combination with the ACF Basic or ACF LCD controller and using the originally prescribed filters:

- Comply with the Machinery Directive (2006/42/EC)
- Comply with the harmonized European standards:
  - European Standard 2014/30/EU EMC
  - Regulation 10R6
  - EN12895, EN13766-01, EN14982
- Comply with risk analyses and risk reduction carried out according to European Standard EN NEN ISO12100-2010

Etten-Leur, 1 October 2024



André Bout

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CONTENTS

2. INTRODUCTION

This manual is for an overpressure filter system of the AC Filter brand, model number AC1, and the corresponding ACF Basic controller. For a complete overview of the systems and filters, please refer to our general overview, available on the AC Filter website and the website of your dealer.

This manual serves as a guide for the assembly, use, and maintenance of the system. It is advisable to keep the manual with the overpressure filter system so that the operator can use it as an easy reference.

The manual may be updated periodically and can be downloaded from the AC Filter website.

2.1 USED PICTOGRAMS AND SYMBOLS

The following important pictograms and symbols are used in this manual:

WARNING
Protocols, procedures, or actions that may pose a risk of personal injury or damage to machinery or devices. Caution is required!

CAUTION
Extra attention is recommended.

ENVIRONMENTAL
Information or instructions related to the environment.

2.2 SYSTEM IDENTIFICATION

The overpressure filter system can be identified by the information on the nameplate of the unit. This information pertains to the system and is relevant when contacting the dealer for technical support, for example. The contact details of your dealer can always be found on our website.

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3. SAFETY AND ENVIRONMENT

3.1 GENERAL INFORMATION

Fillflex BV cannot be held liable for personal injury or damage to machinery or equipment resulting from the failure to comply with (safety) regulations and instructions. Additionally, Fillflex BV cannot accept liability in the case of negligence during the use of an overpressure filter system or the machine on which it is installed.
The working conditions may require extensive (safety) regulations. If there is any doubt about safety during operations, please contact your dealer immediately!

3.2 WHAT IS REQUIRED FROM THE USER?

When using and maintaining Fillflex BV systems, it is essential to carefully follow the manual and strictly adhere to the guidelines. The system may only be used for the applications described in the manual. Only original Fillflex BV parts should be used for repairs.

CAUTION
In the case of technical issues, you should always contact your dealer before performing any repair work. Disassembly of certain parts may lead to leaks. Seals and gaskets that are removed must be replaced to ensure the integrity of the system.

WARNING
The AC Filter systems must always be equipped with original filters. Only these filters guarantee the correct operation of the system. Fillflex BV is not responsible for the performance or quality of third-party products. The use of non-original filters may result in serious or permanent damage to health and safety. As the user, you are responsible for using the correct filters in the system. Consult an occupational hygienist for advice. When replacing filters, it is mandatory to use suitable personal protective equipment.

Note that certain gases or vapors cannot be filtered using activated carbon. For advice on this, you may contact your project leader or occupational hygienist.

WARNING
When the system is switched off, no clean air is supplied. Always use original filters and ensure you wear protective equipment such as a respirator and gloves when replacing filters. If contaminated air is detected in the cabin, immediately leave the contaminated area. Smoking in the cabin is prohibited.

Fillflex BV is not responsible for any damage resulting from the use of its systems when they are used for purposes other than those described in this manual.
This liability exclusion also applies to maintenance and repairs that have not been carried out by the authorized service department of your dealer. In such cases, the warranty is also void.

3.3 IMPROPER USE

Overpressure filter systems should not be used in situations where substances are present that should not be inhaled and cannot be filtered by activated carbon filters or specific particle filters (e.g., carbon monoxide, CO). In environments with oxygen displacement, an oxygen sensor must always be used.

3.4 USE IN EXPLOSIVE ATMOSPHERES

Fillflex BV systems are not suitable for use in explosive atmospheres, as they do not meet the requirements set for equipment in such environments. Modifications to the device and the use of non-original parts are not allowed.
Repairs and part replacements must only be carried out in an explosion-proof environment by a qualified specialist.

3.5 SAFETY MEASURES IN DESIGN AND ASSEMBLY

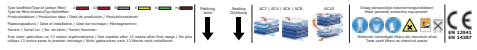
Fillflex BV systems are designed with the utmost care and are equipped with various safety features to ensure safe operation.

3.5.1 Built-in Safety Features

The systems include several built-in mechanisms to minimize risks. For more information on these, please consult the manual or contact your dealer.

3.5.2 Stickers on the Unit and Filters

The stickers and labels on the units and filters are an essential part of the (safety) regulations and instructions. Do not remove or cover these, and replace any damaged labels or stickers.

Label/Sticker	Meaning	Location
	Type Plate/Identification	Unit
	Filter Sticker	Filter Frame

3.6 ENVIRONMENTAL CONSIDERATIONS

Under normal conditions, the daily use and maintenance of AC Filter systems do not pose a danger to the environment, as long as local regulations and laws are observed. However, the overpressure filter systems from AC Filter are used in a contaminated environment. Used filters must therefore be treated as hazardous waste and disposed of in accordance with the regulations of the Environmental Management Act.

4. SAFE AND HEALTHY OPERATION

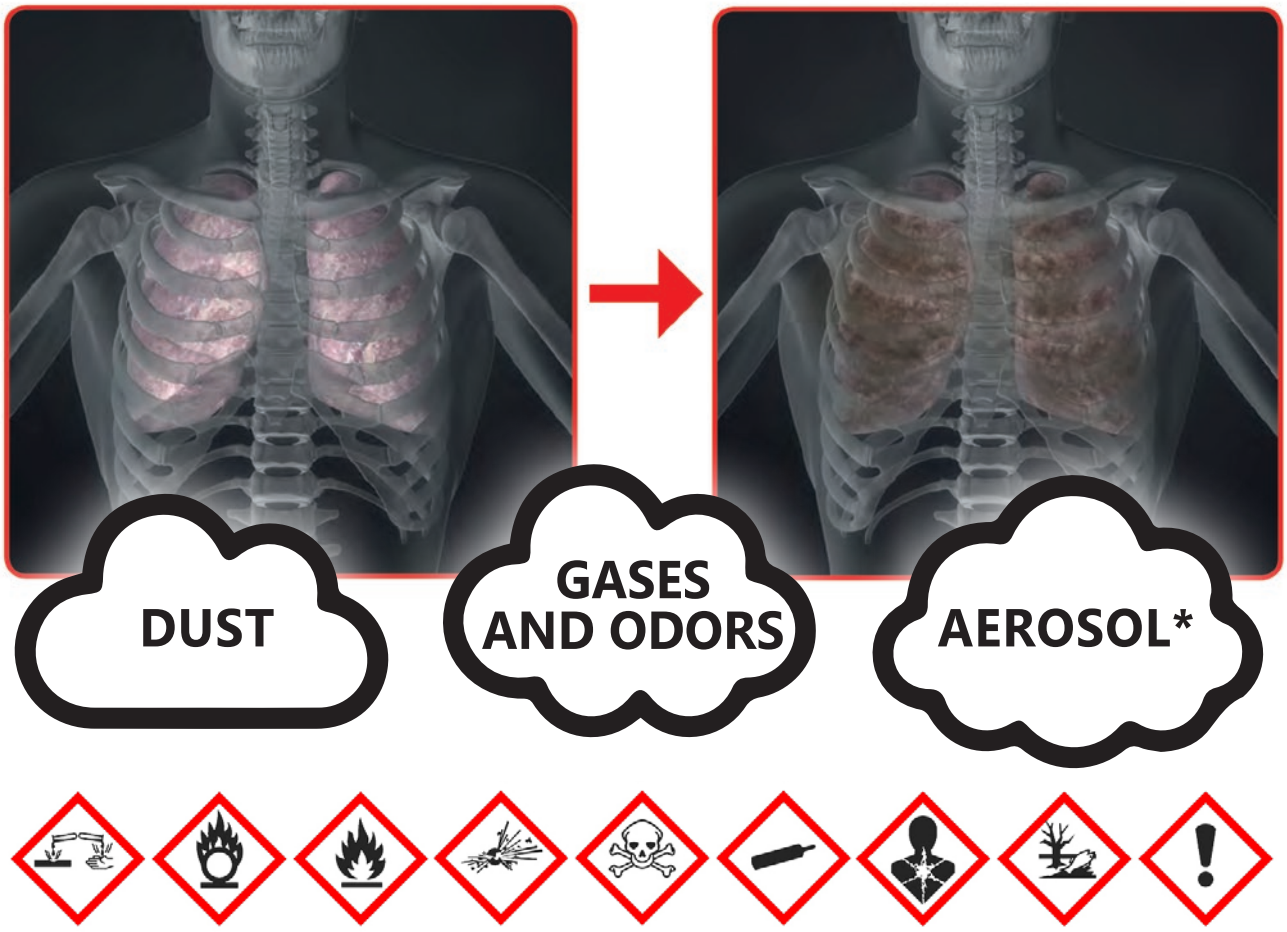
AC Filter has developed a range of overpressure filter systems that meet all the requirements as stated in CROW-400, NEN 4444, NEN-EN 12941, NEN-EN 1822, NEN-EN-ISO 16890, and ISO 23875.

4.1 WHY DO I NEED AN OVERPRESSURE FILTER SYSTEM?

When the concentration of dust, gas/vapour, or other aerosols* in the air is so high that there is no clean (breathing) air left in the cabin, we refer to this as air pollution. An overpressure filter system is classified as personal protective equipment (PPE). This system purifies the air inside the cabin and makes it safe to breathe.

This system:

- Prevents lung diseases such as asthma, bronchitis, or worse for you or your colleagues
- Reduces the risk of employee absenteeism due to illness
- Protects the equipment and electronics in your machine
- Prevents long-term (lung) diseases and unnecessary healthcare costs



AEROSOL: Chemical & biological particles in the air (atomized)

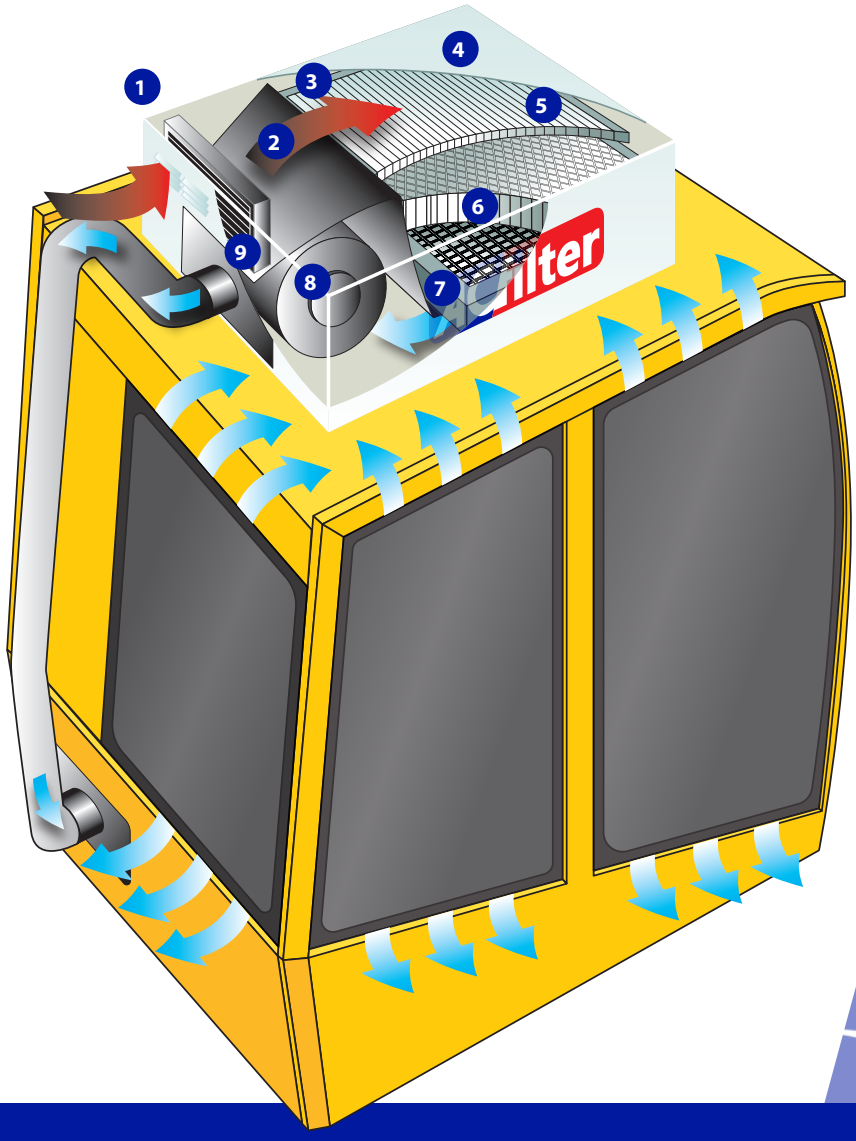
4.2 WHEN DO I NEED AN OVERPRESSURE FILTER SYSTEM?

For example, during demolition work or soil remediation, an overpressure filter system is mandatory. A safety officer supervises the work to ensure that employees comply with company policies and government safety regulations. Safety officers inspect both indoor and outdoor work areas to determine if there are safety risks. They typically decide when it is necessary for an operator to use an overpressure filter system. However, if operators themselves deem it necessary to use this type of system, they are required to request it themselves.

4.3 HOW IS THE SYSTEM CONSTRUCTED?

The overpressure filter system consists of a filter unit, a controller, a blower, and a set of particle filters (HEPA) and/or carbon filters. Air from outside is drawn into the system, where it passes through the dust and/or carbon filters. The clean, filtered air is then blown into the enclosed cabin, creating overpressure. The air pressure in the cabin is higher than outside, preventing contaminated air from entering, allowing you to breathe clean air during your work.

4.4 HOW DOES AN OVERPRESSURE FILTER SYSTEM WORK?



Health @work

1 | Air Inlet
2 | Pre-Filter P1 (G4)
3 | Contaminated Air
4 | Dust Filter P1 (G4)
5 | HEPA Filter P3 (H13)
6 | Activated Carbon Filter
7 | Filtered Air
8 | Blower
9 | Exhaust

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5. AC 1 COMPACT

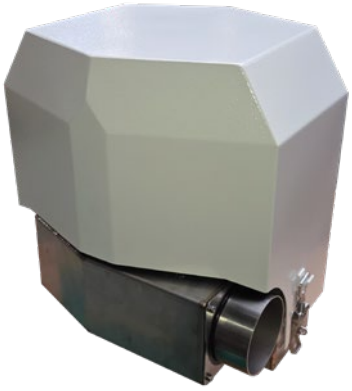
5.1 GENERAL INFORMATION

The AC1 Compact is the smallest unit in the AC-Filter range. The unit is designed in such a way that you can choose between 2 air discharge directions. This model is standard equipped with a round, self-cleaning dust filter. Optionally, the unit can be ordered with a higher cover and a carbon filter. The low dust filter is standard a P1-P3.

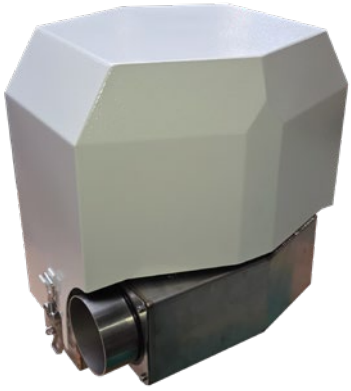
Dimensions	450 x 350 x 460 mm
Weight	16 kg
Voltage	12 VDC & 24 VDC
Power	180W (12VDC), 120W (24VDC)
Current	max 15,9 A
Standard Color	RAL9001
Filter Dimensions	Ø 300 x 200 mm
Unit Material	RVS 304
Cover Material	RVS 304
Max. Overpressure	400 Pa, 120m^3/h
Filter Options	10 kg Carbon, P1, P2, P3 (HEPA)
Mounting	Horizontal
Filter Detection	2x
Controller	ACF Basic

5.2 AIR FLOW DIRECTIONS

You can choose between two airflow directions, allowing the unit to be used in any situation.



Left Side



Right Side

6. ASSEMBLY INSTRUCTIONS

When installing an overpressure filter system, certain basic rules must be observed according to NEN 4444 and CROW400. The placement depends on the type of machine and the customer's requirements. It must be ensured that the system does not obstruct the operator's view.

6.1 BASIC RULES FOR INSTALLATION

The suction of exhaust gases by the overpressure filter system must be avoided to ensure the proper functioning of the system.
The controller must be installed in a location visible to the operator so that operation and reading of the values can be done from the workstation.
The climate control system should only circulate the clean air from the overpressure filter system and not draw air from the outside through the climate control system.
It is advisable to position the exhaust nozzle in the cabin in such a way that it does not create an obstruction for the operator.
Installation must always be performed by a qualified person. If in doubt, contact your dealer.

6.2 INSTALLATION PARTS

	Part No.	Description
1.	56-7059	Hose
2.	99-6055	Hose Clamps
3.	56-2301	Controller
4.	56-2450	Bracket
5.	56-2131	Wiring Harness
6.	Various	Mounting Materials

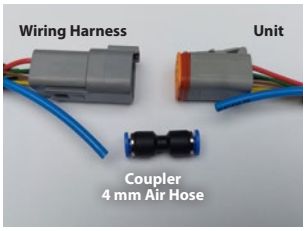
*) For standard configuration. Contact your dealer if your configuration has been customized to your specific needs.

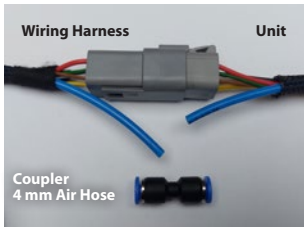
7. ELECTRICAL INSTALLATION

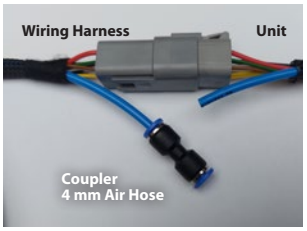
7.1 CONNECTING CABLES

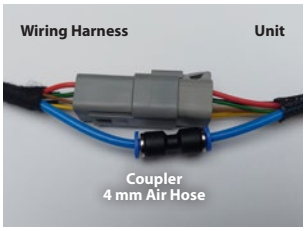
The routing of the wiring harnesses depends on the type of vehicle. An additional 15-amp fuse must be placed in the fuse box to prevent damage to the vehicle. The system should only be powered once the vehicle has started.
The unit is easy to install by connecting the connectors. The exposed black negative and red positive cables are connected to the vehicle's power supply. The wiring harness runs from the exhaust nozzle through the hose to the controller in the cabin.

Connecting the Wiring Harness to the Unit

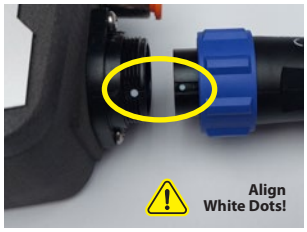




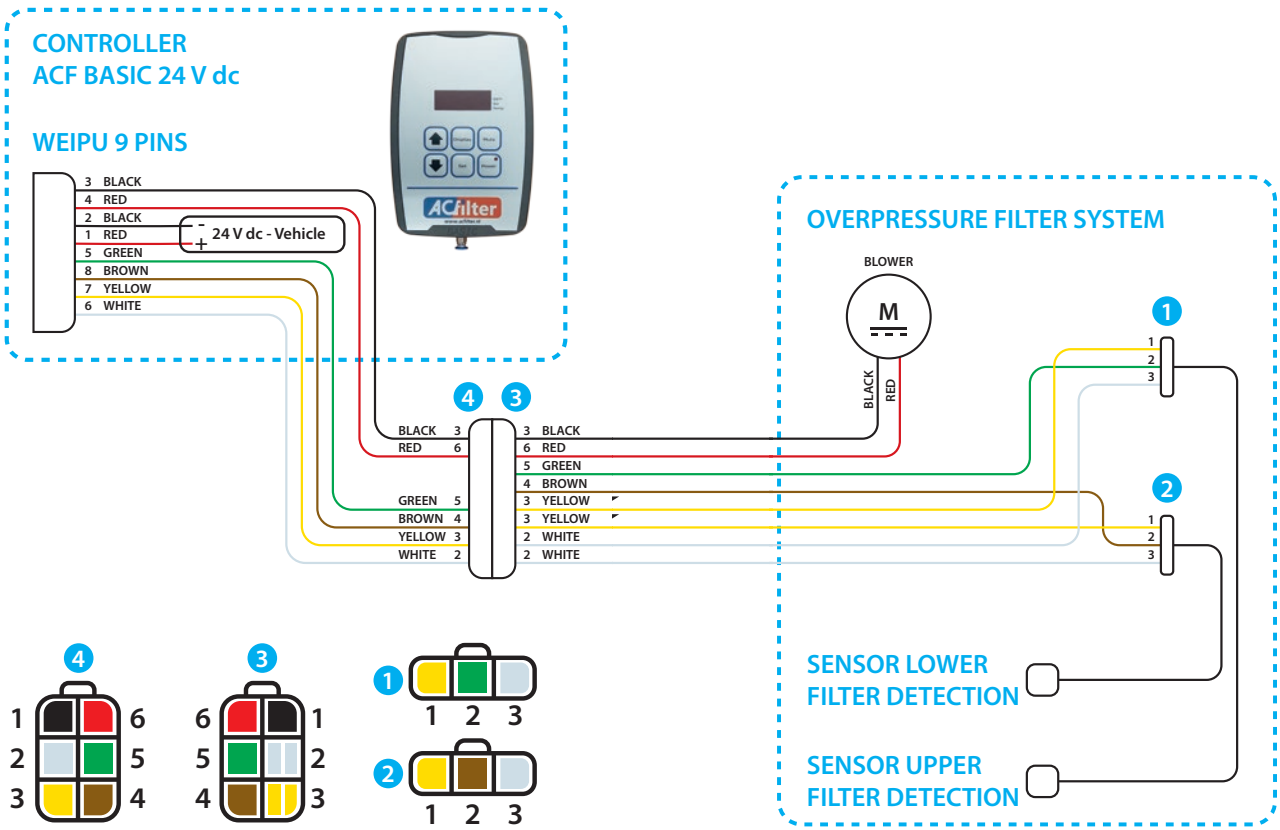




Connecting the Wiring Harness to the Controller



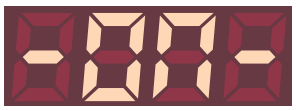
7.2 ELECTRICAL DIAGRAM



8. ACF BASIC CONTROLLER

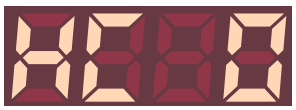
8.1 SPECIFICATIONS	
Voltage	24 Vdc
Pressure Range	0 to 300 Pa
Hydrocarbon Sensor	5 ppm +/- 5%
Acoustic Alarm	Yes
Display	4 characters
Filter Detection	Yes
Saturated Filter Detection	Yes

8.2 OPERATION



When you start your vehicle, the overpressure filter unit starts automatically.

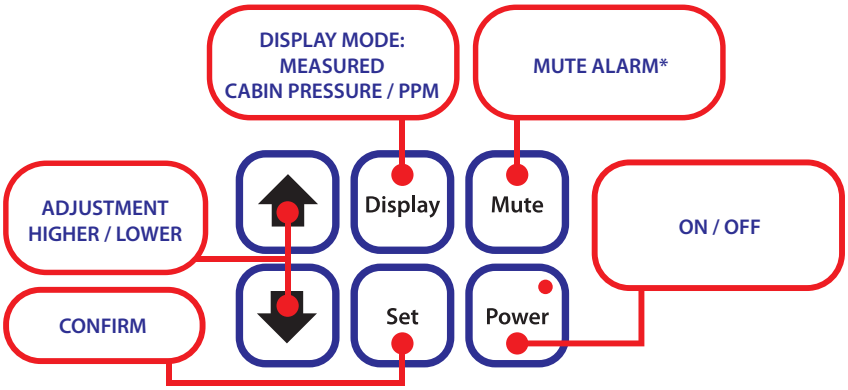
The overpressure filter unit begins at a lower speed and accelerates until the pre-set overpressure value is reached. The default setting is 120 Pa, but it can be adjusted via the controller between 120 Pa (0.017 psi) and 300 Pa (0.043 psi).



The CO2 measurement starts after a period of two minutes, after which the correct value will appear on the display. During this period, the PPM value will count down on the display. The legal alarm threshold for hydrocarbons is set to 5 PPM. If the overpressure value does not meet the lower limit of 120 Pa or exceeds the upper limit of 300 Pa, or if the pollution exceeds the set value, an alarm will sound. In addition to an acoustic signal, the alarm is also visually displayed.

The unit also checks the presence of filters. If they are missing, the display will show "FIL," and the overpressure filter unit will not start.

8.3 BUTTON FUNCTIONS



8.4 FEATURES OF THE CONTROLLER:

- Setting the pressure value
- Dust detection
- Filter detection
- Hydrocarbon detection

8.5 SETTING THE OVERPRESSURE VALUE:

1. Press the "DISPLAY" button to set the unit's display to the pressure value
2. Use the "UP-DOWN" buttons to set the desired pressure value
3. Confirm the value by pressing the "SET" button
4. The basic controller will now operate according to the set values

8.6 TEXT ON THE DISPLAY:

The measured pressure is displayed as P in Pascal. The alarm is activated when the pressure in the cabin drops below 120 Pa or exceeds 300 Pa; the text on the display will start flashing, and an acoustic signal will sound.

If the pressure does not reach the lower limit of 120 Pa, it could indicate that the dust filter is clogged or the cabin seals are no longer airtight.
The measured amount of hydrocarbons is displayed as HC in PPM. An alarm will sound when this value exceeds 5 PPM; the display will flash and show the current HC value.
When the HC value on the display rises from 0 to 5 PPM, this could indicate a clogged carbon filter. If the value exceeds 5 PPM, the filters need to be replaced.

If no carbon filter is installed in the unit, it may occur that a high concentration of hydrocarbons is measured in the cabin due to exhaust gases.
It is recommended to always use a carbon filter.

If "FIL" appears on the display, it means that no filters are present in the unit or that the filters are incorrectly installed. The unit contains two proximity sensors to detect the filter. When using dust filters made of materials other than steel, the sensors may not detect the filters.

NOTE:
– IN CASE OF ALARM SOUND WARNING, USE THE MUTE BUTTON
– ALSO USE THE MUTE BUTTON WHEN RESTARTING THE ACF CONTROLLER

9. COMMISSIONING

9.1 STARTING

Before using the AC Filter overpressure filtration system, the following items must be checked to ensure proper operation:

- Verify that a valid certificate is present. If not, contact an authorized dealer to have the system certified.
- Ensure the correct combination filter is installed. Insert the correct filter or replace it if its lifespan has expired.
- Check that the correct control system and associated gas detection are installed.
- Test whether the control system is functioning correctly.
- If present, correctly set the alarm values for the gas sensor.

Important:

The system may only be used once the overpressure and airflow have been tested and a certificate has been issued with positive results.
(You will find a checklist according to the CROW standard on page 18.)

Use of the AC Filter overpressure filtration system is not permitted in a contaminated environment if:

- No valid certificate is present.
- Windows or doors are open.
- Window or door seals are severely damaged.
- The filter's lifespan has expired.
- The filter logbook is missing or not up-to-date (see sample logbook on page 20).
- Non-original filters are installed.
- Filters are not suitable for the specific contamination.*
- The airflow volume falls outside the permitted range.
- Note: If contamination is detected inside the cabin, immediately leave the hazardous area with the vehicle.

** Always consult an occupational hygienist for advice.*

9.2 DAILY USE

Before each use of the AC Filter overpressure filtration system, the following conditions must be met:

- A valid certificate must be present.
- Only original filters may be installed in the housing.
- The control system must be correctly installed.
- Filters must be original and suitable for the relevant contamination.*
- The gas sensor must be capable of detecting the correct substances.
- Ensure window and door seals are fully intact.
- Check that the connection between the unit and the cabin is undamaged.
- Always keep windows and doors closed.
- Ensure that airflow is coming from the outlet vents.

** Always consult an occupational hygienist for advice.*

10. FILTERS

10.1 AVAILABLE FILTERS

For the AC1 Compact, a range of dust and carbon filters is available:

61-5002 COMBI P1+P3 300×200×110 mm

61-5003 COMBI P1+P3 300×200×240 mm

64-5100 CARBON FILTER A 110×240 mm
64-5101 CARBON FILTER AK 110×240 mm
64-5102 CARBON FILTER ABEK 110×240 mm

61-5002
Combi Filter P1+P3

61-5003
Combi Filter P1+P3

64-510...
Carbon Filters A/AK/ABEK

10.1.1 P1 Dust Filter

This type of filter provides protection against inhalation of dust with a MAC value of >10 mg/m^3.
The frame material is aluminum, and the filter class is P1/G4.

10.1.2 P3 HEPA Filter

This type of filter provides protection against inhalation of toxic fine dust, asbestos, spores, bacteria, viruses, proteolytic enzymes, and substances classified as human carcinogens, with a MAC value of 0.1 mg/m^3.
These substances are generally classified under dust class 2c.
The frame material is aluminum, and the filter class is P3/H13.

10.1.3 P1-P3 Combination Filter

This type combines the properties of P1 and P3 filters, offering protection against the inhalation of dust with a MAC value of >10 mg/m^3 and toxic fine dust, asbestos, spores, bacteria, viruses, proteolytic enzymes, and substances classified as human carcinogens, with a MAC value of 0.1 mg/m^3.
These substances are generally classified under dust class 2c.
The frame material is aluminum, and the filter class is P1/P3 (G4/H13).

10.1.4 Activated Carbon Filter

Carbon filters type A work by attracting and binding molecular contamination.
These filters are suitable for all aromatic hydrocarbons.
B-, E-, K-, and HG-filters (or combinations thereof) are used for contamination other than hydrocarbons, such as mercury or acids.
ABEK filters are certified according to EN14387.

10.2 FILTER LIFESPAN

Depending on the nature of the work, all AC Filter dust filters have an approximate lifespan of 6 months, while the activated carbon filters have a lifespan of 3 months.

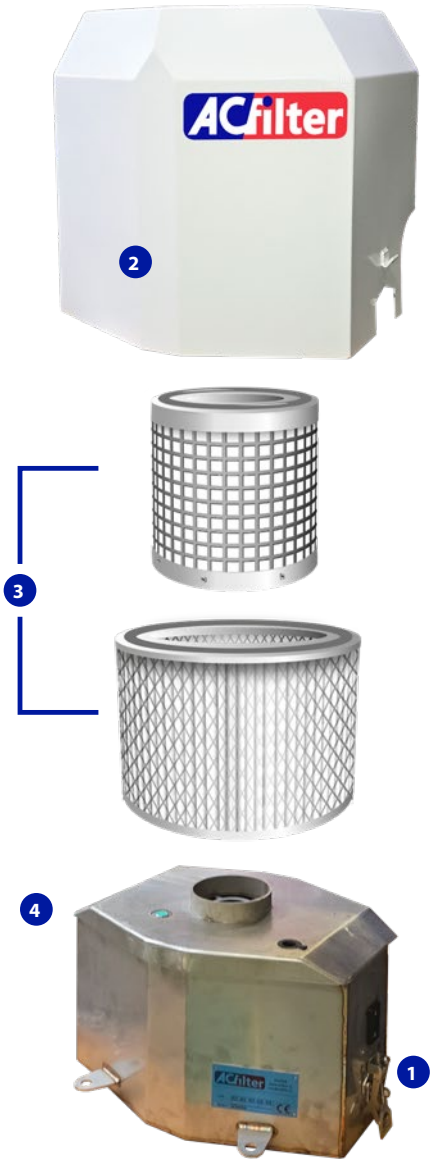
10.3 REPLACING THE FILTERS

1. Release the quick fasteners (1) around the unit.
2. Lift the cover (2) off the unit (4).
3. Remove the relevant filters (3) from the unit (4).
4. Place the new relevant filters (3) into the unit (4).

A combination of dust and carbon filters must be installed, or a P1-P3 combination filter.

- A carbon filter (64-510...) with a surrounding P1+P3 combination filter (61-5003).
- Or a P1+P3 combination filter (61-5002).

5. Place the cover (2) back onto the unit (4).
6. Secure the quick fasteners (1) again.



10.4 STORAGE AND DISPOSAL

Attention! Always store (carbon) filters in the original sealed packaging during storage.

Carbon material degrades once exposed to outside air or gases. The filtration efficiency is limited by its absorption capacity.

Once a carbon filter has been used and is saturated, it must be treated as "Chemical Waste" and disposed of responsibly (check local regulations).

AC Filter recommends that protective clothing and respiratory protection should always be worn when handling filters.

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11. REGULATIONS

11.1 CROW 400 PUBLICATION 2018

- The "Overpressure Filter System" must bear the CE mark.
- Placement of the unit on the machine must never obstruct the operator's view.
- The unit must be resistant to shocks and point loads.
- The minimum pressure value in the cabin is 100 Pa (0.015 Psi).
- The maximum allowable pressure is 300 Pa (0.044 Psi).
- For machines produced before 01-01-1997, the minimum pressure is 50 Pa (0.007 Psi).
- The air outflow from the unit must be between 40 m^3/h and 120 m^3/h.
- The system must be constructed in such a way that incoming air passes exclusively through the filters.
- The air intake point must be positioned so that it is impossible for exhaust gases to re-enter the system.
- To ensure clean (breathing) air, the system must start automatically when the machine is switched on.
- A visual and/or audible warning device must be mounted on the machine to monitor overpressure, the presence of filters, and the detection of harmful substances.
- The installation and seals must be designed to prevent leakage between the housing and the filters
- The "Overpressure Filter System" must be inspected after installation. Additionally, the system must be checked annually for compliance with the above points.

11.2 NEN 4444:2010

Since 2010, NEN4444:2010 has been in practical effect. This is a guideline specifically focused on the use of the "Overpressure Filter System" and sets requirements for the system, the warning device, and the filters.

OVERPRESSURE FILTER SYSTEMS:

- The cabin overpressure must be greater than 100 Pa. If it exceeds 300 Pa, there must be a possibility to "adjust back" the fan.
- To guarantee sufficient contact time of the activated carbon filter, the total air output lies between 40 m^3 and 120 m^3 per hour.
- The system is designed so that air drawn from the surroundings can only enter the workspace via the filter unit.
- The electrical installation of the system complies with NEN-EN-IEC 60204-1. Additionally, the CE marking (in accordance with the Machinery Directive) is present on the unit and controller; this does not apply to the filters, which comply with harmonized standards.

Signaling

- A green indicator is present, visible from the workstation, to show whether the overpressure filter system is operational and whether filters are installed.
- If hydrocarbon detection equipment is available (mandatory when using carbon filters), it must give an alarm when the SPPM (Short-term Permissible Exposure Limit) threshold is exceeded.
- A device must be present that displays the current pressure differential and gives both a visual and audible signal if threshold values are exceeded.

Installation

- The location where the overpressure filter system is installed must not interfere with normal cabin operations.
- The system's intake opening must be positioned to avoid drawing in exhaust gases.
- The outlet opening of the system inside the cabin must be positioned to avoid causing an unpleasant airflow. Monitoring equipment must be installed such that the readings are visible from the workstation.
- The climate control system may only draw air through the overpressure filter system. If installed with a direct bypass, the system must have a recirculation mode. Air conditioning is not required as long as the working temperature in the cabin remains within acceptable limits.

Filters and Use

- P1 and P2 dust filters in accordance with EN779.
- P3 dust filters in accordance with EN1822, individually tested for leakage.
- Carbon filters in accordance with the test method EN12941 (classification ABEK). A performance requirement applies. In practice, given the specified airflow, at least 10 kg of filters must be used at all times.
- A logbook must be kept recording filter and system operating hours, filter maintenance, etc.

Labeling

- The overpressure filter system must display the warning sign W01 on the exterior as well as a visible warning for the use of appropriate PPE (Personal Protective Equipment).
- Installed filters must have a label stating the filter type, filter class, manufacturer, and installation date.

11.3 ISO 23875

- Mandatory monitoring of CO_2 levels in the cabin.

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Vehicle make/brand ..... Type ..... Registration Number .....

Year of manufacture ..... License plate ..... Serial Number .....

Installation date ..... Type systeem .....

DATE	MILEAGE	TYPE DUST FILTER	TYPE CARBON FILTER	SERIAL NUMBER	GEMONTEERD* REMOVED* MAINTENANCE*	MEASURING DEVICE	MEASURED PRESSURE	NOTES OBSERVATIONS

* Installed / Removed / Maintenance / Fault / etc.

13. MEASUREMENT REPORT

Vehicle make/brand ..... Type .....

Registration Number ..... License Plate .....

Year of manufacture .....

Report Number ..... Part Number .....

Order Number ..... Type System .....

Gemonteerde filters

Part Number	Type	Serial Number

Installation Date .....

Measuring Date .....

3-mode Switch ..... Pa. -Mode 1

..... Pa. -Mode 2

..... Pa. -Mode 3

ACF ..... Pa.

Note .....

Measured by .....

Employee .....

Approved by .....

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14. GENERAL AC FILTER PARTS LIST

Part.nr.	Description
56-0027	Quick-release cover for all units, stainless steel (RVS)
56-0028	Quick-release latch Ojop AC6/8/9/10
56-0151	Rotatable air outlet grille – Ø80 mm
56-0426	Plastic cover AC4
56-0431	Locking bolt for AC4 cover
56-0433	Aluminum hinge guide AC4 cover
56-0440	Rubber stopper for cover AC4 – 30x20x5 mm
56-0448	Safety clip for cable AC4
56-0449	Safety cable cover AC4
56-0617	Typeplate ACFilter all units
56-0618	Typeplate ACF controller
56-2007	Assembly: Proximity switch ACFilter
56-2010	Blower B50 ACFilter 24v
56-2012	Brushless blower ACFilter 24v
56-2013	Brushless blower ACFilter 12v
56-2014	Yazaki connector counterpart
56-2127	Cable ACF blower to proximity switch (long)
56-2128	Cable ACF blower to proximity switch (short)
56-2131	Main wiring harness ACF 5 meters.
56-2301	Controller ACF basic
56-2302	Controller ACF basic + CO_2
56-2450	ACF controller bracket
56-2700	9-pin female connector for ACF mainboard
56-2701	9-pin connector flange for ACF mainboard
56-4001	Flange + plate 100/80 mm – 45° stainless steel
56-4002	Flange + plate 100/100 mm – 90° stainless steel
56-4003	Flange + plate 80/80 mm – 90° stainless steel
56-4004	Flange + plate 100/100 mm – stainless steel
56-4005	Flange + plate 80/80 mm – stainless steel
56-7002	Plastic outlet blower adapter 102 mm
56-7010	Hose clamp support U-profile – stainless steel
56-7051	Silicone hose – 2x4 mm transparent
56-7052	Air hose 4x2.5 mm Festo per meter
56-7054	Air hose Ø 63 mm
56-7055	Air hose Ø 80 mm
56-7059	Air hose Ø 102 mm
99-6046	Hose clamp 58–75 mm (for Ø63 mm hose) – 56-7054
99-6054	Hose clamp 70–90 mm (for Ø80 mm hose) – 56-7055
99-6055	Hose clamp 87–112 mm (for Ø102 mm hose) – 56-7059
99-0000	Sealing foam 20x5 mm (ZK) – per meter
99-0001	Sealing foam 12x3 mm – per meter
99-0002	Sealing foam 30x3 mm – per meter
99-0003	Sealing foam 30x6 mm – per meter
99-0004	Sealing foam 80x3 mm – per meter
99-0005	Sealing foam 25x20 mm (ZK) – per meter
99-0006	Sealing foam 12x6 mm – per meter
99-0007	Blower outlet adapter gasket (for part no. 56-7002)
99-0009	Sealing foam 15x8 mm (ZK) – per meter
99-0010	Sealing foam 15x3 mm (ZK) – per meter
99-0011	Sealing foam 15x10 mm (ZK) – per meter
99-0013	Sealing foam 30x20 mm (ZK) – per meter
99-0014	Sealing foam 100x3 mm – per meter

15. NOTES

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16. PARTNERS BENELUX

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