



Clean Air Solutions®



**Work safe in a polluted environment with
Brofil Pressurized Filtration Systems**



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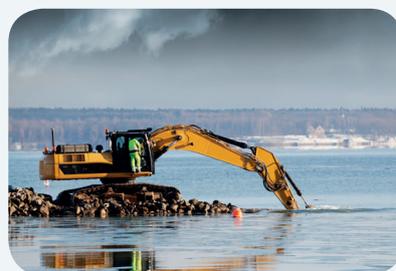
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1. General information

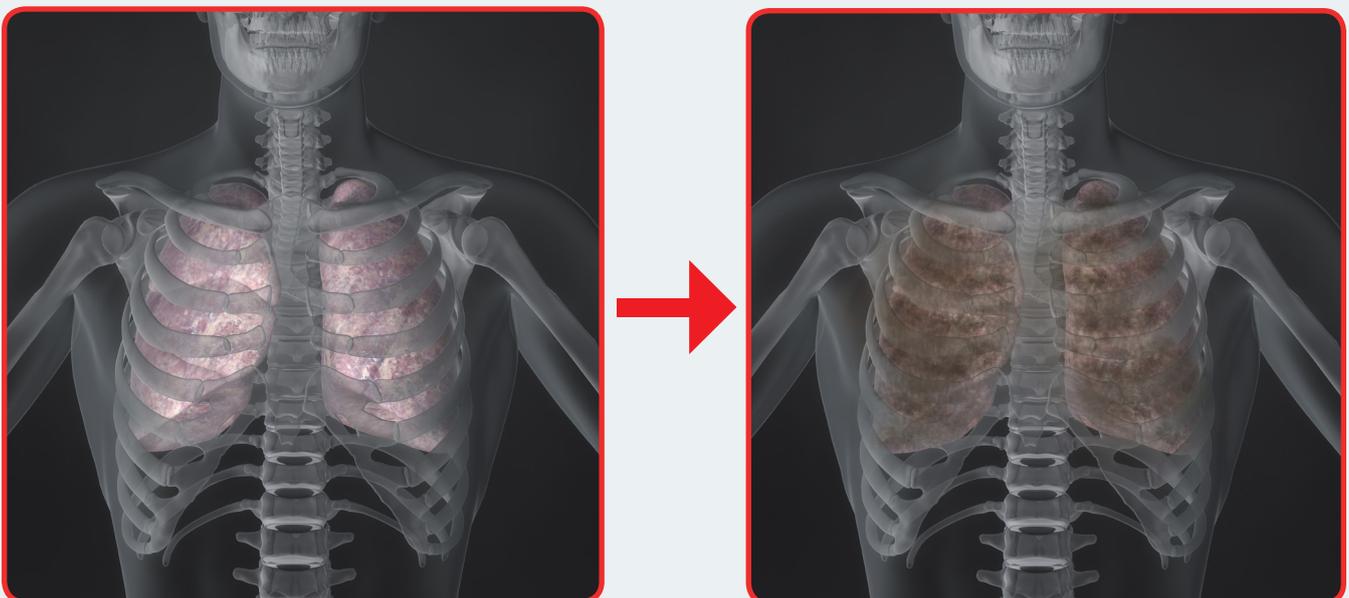
Brofil Clean Air Solutions® has developed a range of Pressurized Filtration Systems which meet all requirements as stated in the NEN4444 and CROW 132:2010.

1.1 Why would I need a Pressurized Filtration System?

When the content 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, blower and dust HEPA and/or carbon filters.

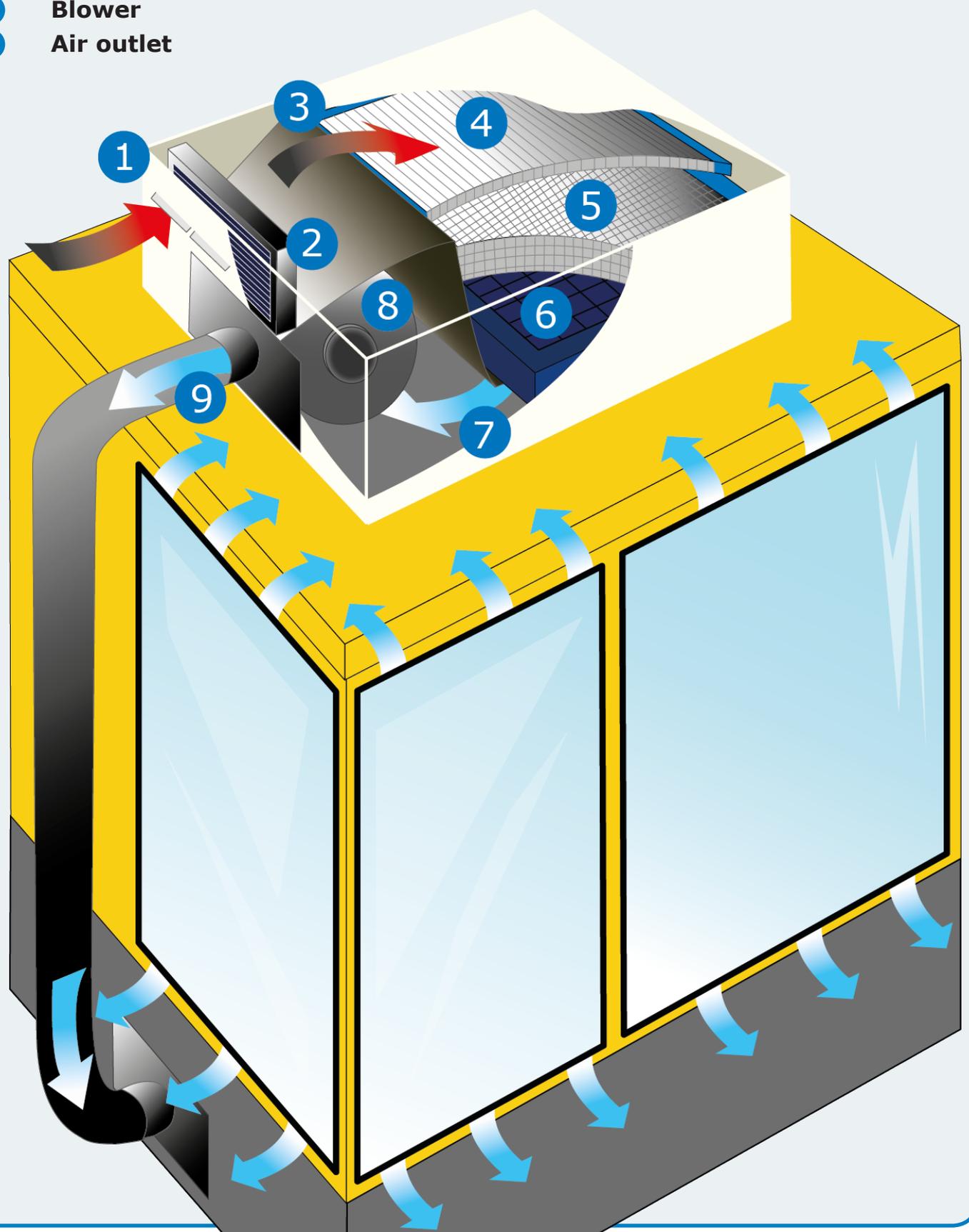
Air from outside is blown into the system, then the air passes through dust and/or carbon filters.

The clean filtered air is now blown into the cabin for you to breath during worktime.

On the next page you see an illustrated explanation of how the system works.

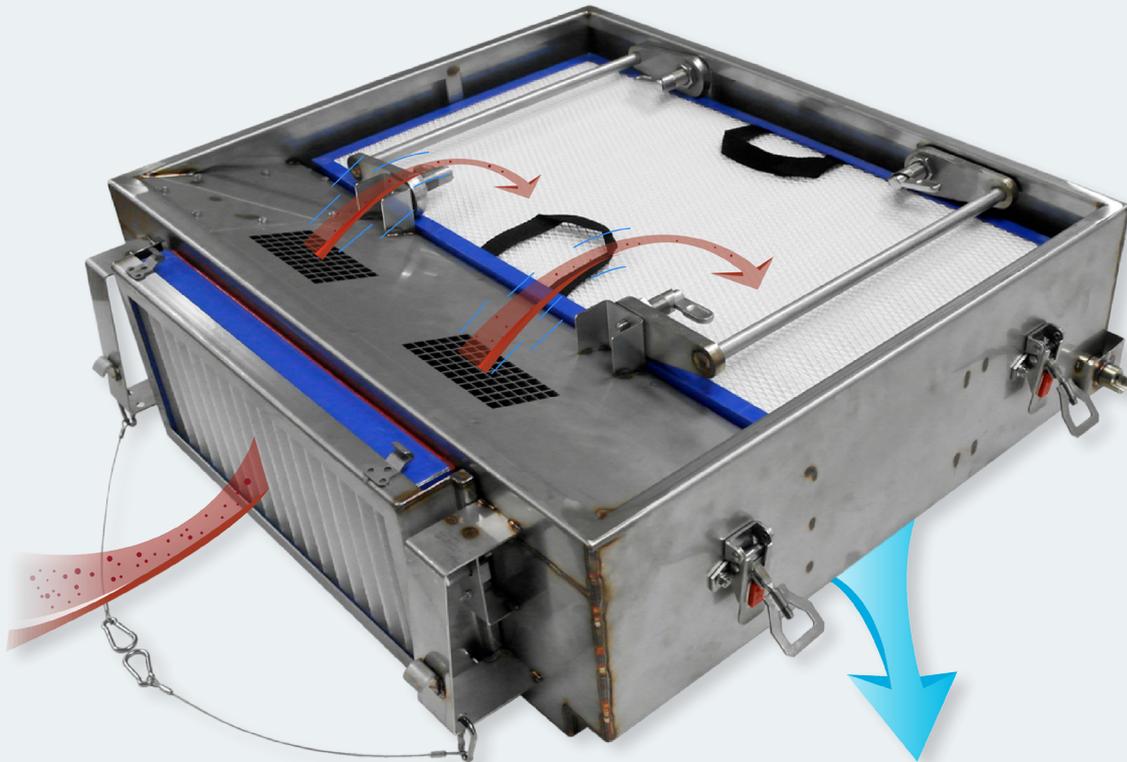


- 1 Air inlet
- 2 Pre-filter P1 (G4)
- 3 Polluted air
- 4 Dust filter P1 (G4)
- 5 HEPA filter P3 (H13)
- 6 Carbon filter
- 7 Filtered air
- 8 Blower
- 9 Air outlet



1.3.1 New feature: ABF

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 applicable for military purposes.

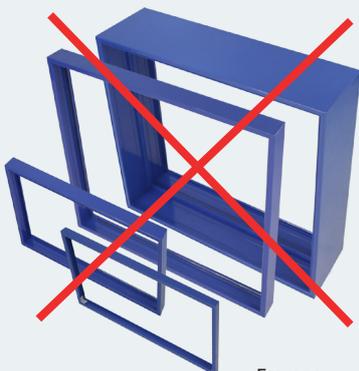


ABF means that air is pressed through the filters. This results in equal pressure on both sides of the filter to make sure that no air can slip through the sealing of the filters. You make optimal use of the system and 100% clean breathing air is guaranteed!

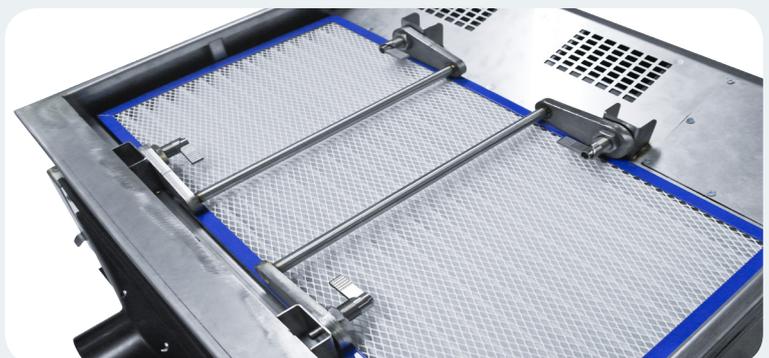
1.3.2 New filter-press system

Brofil systems also now include our new locking system. This eccentric system is easy to handle. With this new filter-press system the filters can be pressed to various levels. Filter frames are not necessary anymore. This system ensures that vibration of the filters is minimized.

These new features makes Brofil systems unique.



Frames



1.4 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 can be equipped with an A.O.C. 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.

1.5 What is the system made of?

All Brofil Pressurized Filtration Systems are completely made of Inox 304 (Stainless Steel), including all fasteners. Some of the systems have a high quality plastic cover, like the B10 Combi.

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

Brofil Pressurized Filtration Systems are powder coated standard in RAL 9001. On request other colors are available.

RAL 9001

Naturally, all our Pressurized Filtration Systems carry the CE mark.



Chemicals released, caused by a fire - Moerdijk 2011

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 Brofil B10 Combi



The B10 Combi is our most popular system and is ideal for use in the onroad & offroad sectors, mostly trucks.

Brofil has designed special roof hatch adapters for assembly to make sure that everything fits perfectly.

The B10 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.

Technical Specifications

Unit dimensions (LxWXH)	705x662x200 mm 27.8x26x7.9 inches
Weight	32 kg
Voltage/Power	12 / 24V
Installation	Vertically / Horizontally
Filter dimensions	600x336 mm 23.6x13.2 inches



2.2 Brofil B10 Super Compact



The Brofil B10 Super Compact has been specially developed for off-road machines with limited assembly space. This unit combines compact dimensions with full capacity.

The B10 Super Compact does not make use of a pre-filter.

Technical Specifications

Unit dimensions (LxWXH)	810x405x245 mm 31.9x15.9x9.6 inches
Weight	38 kg
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336 mm 23.6x13.2 inches



2.3 Brofil B10 Compact



The Brofil B10 Compact 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 mudguard.

The Brofil B10 Compact has larger filter capacity than the Brofil B10 Super Compact to provide a greater number of filter combinations.

Technical Specifications

Unit dimension (LxWXH)	810x405x305 mm 31.9x15.9x12 inches
Weight	41 kg
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336mm 23.6x13.2 inches



2.4 Brofil B15 Compact



The Brofil B15 Compact has a bottom inlet, not only static filter-cleaning, but also the unique forced Blower Cleaning in order to extend the service life of the dust filters.

The new B15 Compact also has the new filter-press system. This system ensures that at all times the filters are sufficiently pressed to prevent leakage through the filters.

Technical Specifications

Unit dimensions (LxWXH)	835x405x305 mm 33.4x15.9x12 inches
Weight	44 kg
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336 mm 23.6x13.2 inches



2.5 Brofil B20 Compact



The Brofil B20 Compact is ideal for use on construction machines, such as mechanical excavators, cranes, foundation machines, dumpers and dredging machines. The B20 Compact combines a very large capacity with relatively compact dimensions.

As a result, the B20 Compact can be used in a wide range of conditions, including heavy decontamination work.

Technical Specifications

Unit dimensions (LxWXH)	810x405x405mm 31.9x15.9x15.9 inches
Weight	48,5 kg
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336 mm 23.6x13.2 inches



2.6 Brofil B30 Compact



Just like the Brofil B20 Compact, the Brofil B30 Compact is ideal for use on all types of construction machines that are used in heavily contaminated environments.

The filters of the B30 Compact have other dimensions than other systems.

Because of the large filter dimensions, this model is ideal for work where large concentrations of dust, gas or vapour are present.

Technical Specifications

Unit dimensions (LxWXH)	871x670x350 mm 34.3x26.9x13.6 inches
Weight	58 kg / 127.8 lbs
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	595x595 mm 23.4x23.4 inches



2.7 Brofil B10 ABF



Brofil introduces the new B10 ABF (Air Blast Filtration). Air is pressed through the filters.

This has the advantage of no leakage through the sealing of the filters. So this system provides 100% clean breathing air!

Standard delivered with a P1/ G4 inlet pre-filter.

The Brofil B10 ABF is a very good choice when the system can be placed on the roof of your machine.

Technical Specifications

Unit dimensions (LxWXH)	705x662x200 mm / 27.8x26x7.9 inches
Weight	32 kg / 70.5 lbs
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336 mm 23.6x13.2 inches

2.8 Brofil B12 ABF



Almost the same as the B10 ABF but with the air expelled on the rear of the system.

With a rear end air outlet, this system is perfect for back wall mounting on trucks and.

All ABF units are qualified to work in the most polluted circumstances.

Technical Specifications

Unit dimension (LxWXH)	705x633x235 mm 33.5x15.9x12 inches
Weight	41 kg
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336mm 23.6x13.2 inches

2.9 Brofil B20 ABF Compact



One of the latest innovations of the Brofil Pressurized Filtration System is the Brofil B20 Compact ABF.

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.

Technical Specifications

Unit dimensions (LxWXH)	910x405x481 mm 35.6x15.9x18.9 inches
Weight	62 kg
Voltage/Power	12 / 24V
Installation	Horizontally
Filter dimensions	600x336 mm 23.6x13.2 inches



2.10 Customized Pressurized Filtration System

In order to meet market standard, Brofil has designed The B1000. A system specially developed for marine and industrial applications.

The Brofil B1000 is easy to install, for example the deck behind the cabin. Thanks to the mounting bracket, the B1000 is fast to assemble, reliable and universal!

Due to its large filter capacity, the B1000 can contain all kinds of filter combinations for every kind of pollution.

Features:

- Large capacity, compact size
- Comes as rear-outlet
- Full stainless steel housing
- Available in 230 and 380VAC
- Unimpeded air flow of 1800m³/h (1060cfm)
- Standard painted white, other colors on request.
- Standard delivered with a 17kg carbonfilter type A, useage to pollution class T3.
- Also available with 30kg carbon filter package for heavy pollution. You can place extra P1 (G4) dust filter or a P3 (H13) HEPA filter to make the unit suitable for pollution class T1 (e.g. benzene and asbestos contamination).
- Change filters without any special equipment.
- Delivered complete with manual and filter certificate.
- Fully complies with the latest safety and CROW guidelines.
- Delivered standard with fan-speed controller
- Optional with PPM-sensor, pressure monitoring and filter detection.
- Also available in ADNR-implementation (European Agreement concerning the International Carriage of Dangerous Goods)
- Diameter of outlet is 150 mm

Technical Specifications

Unit dimensions	830x670x350 mm / 32.7x26.4x13.8 inches
Weight	54 kg / 119 lbs
Airflow	1800m ³ /h (1060cfm)
Installation	Horizontally
Filter dimensions	595x595 mm / 23.4x23.4 inches
Voltage/Power	230/380V - 600W

We can customize Pressurized Filtration Systems for application and we can adjust the system according to the customers wishes.



3. Type of Filter

All our filters meet the standard EN 1822.

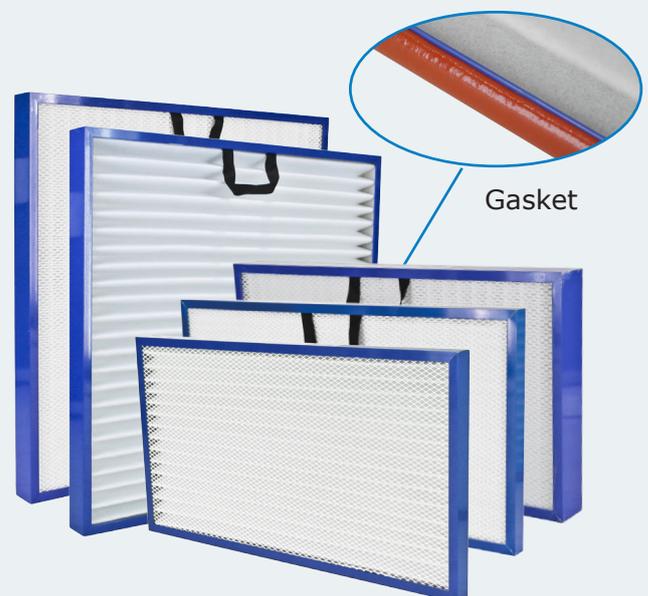
3.1 Pre-filter

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 Brofil 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.

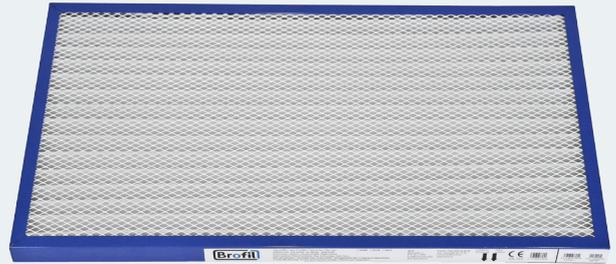
Dust filters should be replaced when showing heavy contamination or up to 6 months after commissioning. Used filters should be treated as hazardous waste and must be disposed of in accordance with the rules of the Environmental Protection Act.



3.2.1 P1 Dust filter

Specifications

Dimensions (LxWxH)	600x336x28 mm / 23.6x13.2x1.1 inches
Filter class	P1 / G4
Filter surface	0,2 m ²
Material Frame	Aluminum

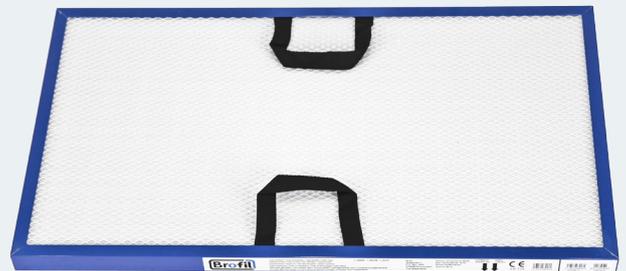


This type of filter provides protection against the inhalation of dust with a MAC- value of >10mg/m³.

3.2.2 P2 Dust filter

Specifications

Dimensions (LxWxH)	600x336x28 mm / 23.6x13.2x1.1 inches
Filter class	P2 / F9
Filter surface	4 m ²
Material Frame	Aluminum

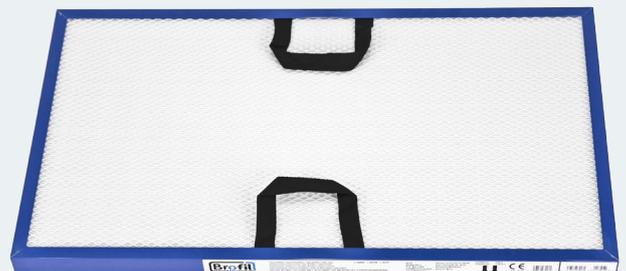


This type of filter provides protection against the inhalation of dust with a MAC- value of > 0,1-10mg/m³.

3.2.3 P3 HEPA filter (28mm and 60mm)

Specifications

Dimensions (LxWxH)	600x336x28-60 mm / 23.6x13.2x1.1-2.3 inches
Filter class	P3/ H13
Filter surface	4 m ²
Initial Resistance	327 m ³ /h bij 125 Pa
Material Frame	Aluminum



*Available in 28 mm and 60 mm

This type of filter offers protection against the inhalation of toxic fine dust, asbestos, spores, bacteria, viruses, proteolytic enzymes, substances which are human carcinogens, with a MAC-value of 0.1 mg/m² or less.

These substances are generally referred to as materials from fabric class 2c.

3.2.4 P1 Dust filter B30 (30mm and 50mm)

Specifications

Dimensions	595x595x30-50 mm 23.4x23.4x1.2-1.9 inches
Filterclass	P1 / G4
Filtersurface	0,2 m ²
Material Frame	Aluminum



This type of filter offers protection against the inhalation of dust with a MAC-value of 10 mg/m³ or more.

3.2.5 P3 HEPA filter B30 (30mm and 50mm)

Specifications

Dimensions	595x595x30-50 mm 23.4x23.4x1.2-1.9 inches
Filterclass	P3 / H13
Filtersurface	4,2 m ²
Initial Resistance	170 m ³ /h bij 270 Pa
Material Frame	Aluminum



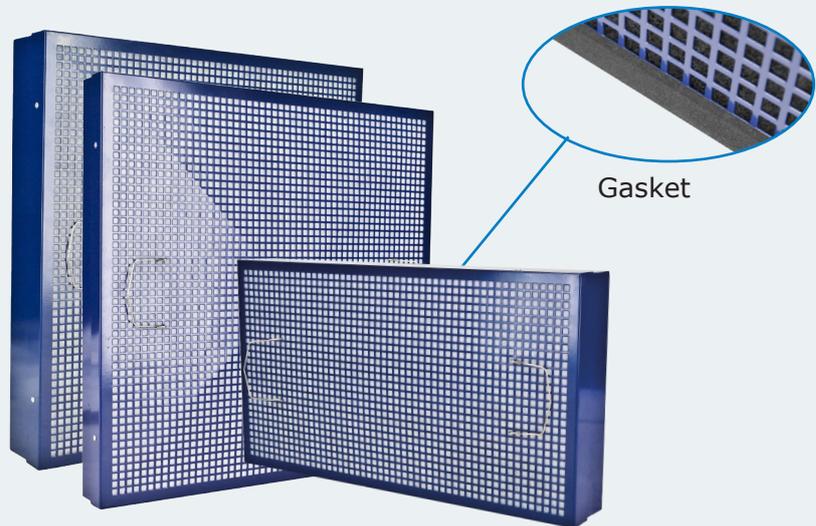
This type of filter offers protection against the inhalation of toxic fine dust, asbestos, spores, bacteria, viruses, proteolytic enzymes, substances which are human carcinogens, with a MAC-value of 0.1 mg/m³ or less.

These substances are generally referred to as materials from fabric class 2c.

3.3 Brofil 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.



Carbon filter A



Organic substances

Carbon filter B



Inorganic substances

Carbon filter E



Acid gases

Carbon filter K



Ammonia

Carbon filter Hg



Mercury

ABEK-filters are certified according to EN14387.

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 > 65°	EN 141
	B	Inorganic gases and vapours (no CO), e.g., chlorine, H ₂ S, HCN, etc.	EN 141
	E	Sulphur dioxide 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 Carbon filter 10kg (46mm and 92mm)

Specifications

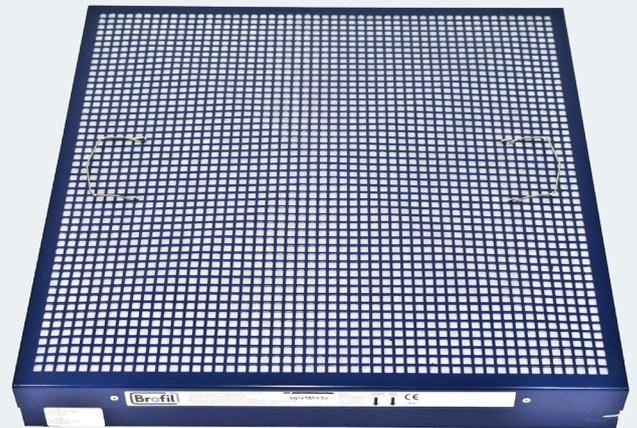
Dimensions	600x336x46/92 mm / 23.6x13.2x1.8/3.6 inches
Filterclass	A2
Filter content	9,25 / 18,5 dm ³
Material Frame	Steel



3.3.2 Carbon filter, 17kg (B30)

Specifications

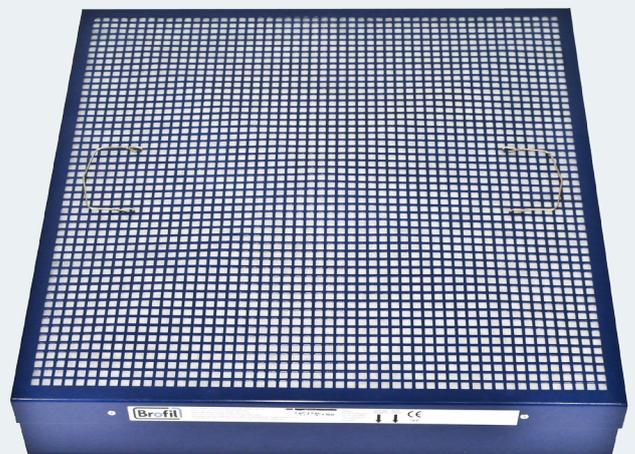
Dimensions	595x595x70 mm / 23.4x23.4x2.7 inches
Filterclass	A2
Filter content	18,7 dm ³
Material Frame	Steel



3.3.3 Carbon filter, 22 kg (B30)

Specifications

Dimensions	595x595x100 mm / 23.4x23.4x3.9 inches
Filterclass	A2
Filter content	35,4 dm ³
Material Frame	Steel



3.4 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.

INDEX LIST

3 - Aceton	4 - Cellulose acetate	3 - Ethyl chloride
1 - Acetylene	4 - Cellulose solvent	3 - Ethyl ether
3 - Acrolein	4 - Chlorobenzene	3 - Ethyl formate
3 - Acrylaldehyde	4 - Chlorobutadiene	4 - Ethyl mercaptan
4 - Acroleic acid	4 - Chlorine Nitropropane	4 - Ethyl Silicate
4 - Acrylonitrile	4 - Chlorine picrine	1 - Ethylene
4 - Alcohol	2 - Chlorine	4 - Ethylene chloride
4 - Liquor	4 - Chlorophorm	4 - Ethyldichloride
2 - Amines	4 - Citrus fruits	3 - Ethylene oxide
2 - Ammonia	3 - Corrosive gases	4 - Essential oils
4 - Amyl acetate	4 - Creosote	4 - Eucalyptus oils
4 - Amyl alcohol	4 - Cresols	3 - Fluorine Trichloromethane
4 - Amylether	4 - Crotonaldehyde	2 - Formaldehyde
4 - Aniline	4 - Cyclohexane	4 - Fruit
3 - Inorganic compound	4 - Cyclohexanol	4 - Odor chicken farm
4 - Antiseptic	4 - Cyclohexanon	3 - Odor loose Earth
4 - Asphalt fumes	4 - Vapours	2 - Poison Gas
3 - Exhaust fumes	4 - Decane	4 - Heptane
2 - Anisaldehyde	4 - Deodorisation	4 - Heptylene
4 - Acetic acid	4 - Disinfectants	3 - Hexane
3 - Bacteria	4 - Dibromoethane	3 - Hexylene
4 - Bathroom odors	4 - Dichlorobenzene	3 - Hexyne
4 - Balm odors	3 - R12	4 - Indole
4 - Gasoline	4 - Dichloroethane	3 - Industrial waste
3 - Bleach	4 - Dichloroethylene	4 - Indien
4 - Flower fragrances	4 - Dichloroethylene ether	4 - Irritants
4 - Butyric acid	3 - Dichloro Mono Fluorine Methane	4 - Isophorone
4 - Burning fat	4 - Nitro Dichloromethane	3 - Isoprene
1 - Fuel Gases	4 - Dichloropropane	4 - Isopropyl acetate
4 - Bromide	3 - Dichloro tetrafluorethan	4 - Isopropyl alcohol
1 - Butane	3 - Animal scents	4 - Isopropyl ether
3 - Butadiene	3 - Diesel gases	4 - Cheese
4 - Butanone	3 - Diethyl amine	4 - Camphor
4 - Butyl acetate	4 - Diethyl ketone	4 - Kerosene
4 - Butyl alcohol	4 - Dimethylaniline	4 - Kitchen odors
4 - Butyl cellulose	4 - Dimethyl sulfate	4 - Garlic odor
4 - Butyl chloride	4 - Dioxane	3 - Coal smoke
4 - Butyl ether	4 - Dipropy ketone	4 - Cooking odors
1 - Butylene	4 - Cadaver odors	4 - Coal Tar
1 - Butyne	1 - Ethane	4 - Cold fire odors
3 - Butyraldehyde	3 - Ether	4 - Fertilizer
4 - Capryl acid	4 - Ethyl acetate	4 - Lactic acid
4 - Carboic acid	4 - Ethyl acrylic	4 - Paint fumes
3 - Carbon bisulfide	4 - Ethyl alcohol	4 - Body odors
1 - Carbon dioxide (CO ₂)	3 - Ethylamine	4 - Adhesives
1 - Carbon monoxide (CO)	4 - Ethyl benzene	4 - Lysol
4 - Carbon Tetrachloride	3 - Ethyl bromide	3 - Mildew
4 - Menthol	4 - Paradichlorobenzene	4 - Toluene
4 - Mercaptan	4 - Perfumes, cosmetics	4 - Toluidine

- | | | |
|--------------------------------|-------------------------------|-------------------------|
| 4 - Mesityl oxide | 4 - Pastas | 4 - Perspiration odor |
| 4 - Manure odors | 3 - Pek | 4 - Trichloroethylene |
| 1 - Methane | 3 - Pethan | 4 - Onions |
| 3 - Methyl acetate | 4 - Pentanone | 3 - Exhaust Gases |
| 4 - Methyl acrylic | 3 - Pentylene | 4 - Urea |
| 3 - Methyl alcohol | 3 - Pentyne | 4 - Urea acid |
| 3 - Methyl bromide | 4 - Fenol | 4 - Valeric acid |
| 4 - Methyl cellusolve | 2 - Phosgene | 4 - Burnt food |
| 4 - Methyl cellulose acetate | 4 - Popcorn and confectionery | 4 - Burnt meat |
| 3 - Methyl chloride | 1 - Propane | 3 - Combustion odors |
| 4 - Methyl chlorophorm | 3 - Propionic aldehyde | 4 - Paint odors |
| 3 - Methyl ether | 4 - Propionic acids | 4 - Scorched materials |
| 4 - Methyl ethyl ketone | 4 - Propyl acetate | 3 - Vinylchloride |
| 3 - Methyl formate | 4 - Propyl alcohol | 3 - Viruses |
| 4 - Methyl isobutyl ketone | 4 - Propyl chloride | 4 - Fish odors |
| 4 - Methyl mercaptan | 4 - Propyl ether | 4 - Liquid fuels |
| 3 - Methylal | 4 - Propyl mercaptan | 4 - Food odors |
| 4 - Methylcyclohexan | 1 - Propylene | 4 - Laundry detergents |
| 4 - Methylcyhexanol | 4 - Sulfuric acid | 1 - Hydrogen |
| 4 - Methylcyclohexanone | 4 - Putrescine | 2 - Hydrogen bromide |
| 4 - Methylene chloride | 4 - Pyridine | 2 - Hydrogen chloride |
| 4 - Fog | 4 - Rancid oil | 2 - Hydrogen cyanide |
| 4 - Monochlorobenzene | 4 - Sewer air | 2 - Hydrogen fluoride |
| 3 - Monofluor Trichloromethane | 4 - Smoke | 2 - Hydrogen iodide |
| 4 - Mothballs | 4 - Rotting ingredients | 1 - Hydrogen selenide |
| 4 - Musty odors | 4 - Raisins | 2 - Hydrogen sulfide |
| 4 - Naphtha (petroleum) | 4 - Rubber | 4 - Incense |
| 4 - Naphtaline | 4 - Ripening fruit | 4 - Xylene |
| 4 - Nicotine | 2 - Nitric acid | 4 - Glacial acetic acid |
| 4 - Nitro benzene | 4 - Cleaning agents | 4 - Soap |
| 4 - Nitromethane | 4 - Cigarette smoke | 4 - Hospital odor |
| 4 - Nitroglycerin | 4 - Skatole | 4 - Sour milk |
| 4 - Nitropropane | 3 - Slaughter odors | 3 - Acids |
| 4 - Nitroluene | 4 - Lubricating oil and fats | 4 - Sauerkraut |
| 4 - Nonane | 1 - Nitrogen dioxide | 3 - Sulphur |
| 4 - Ocylene | 4 - Styrene monomer | 2 - Sulphur dioxide |
| 4 - Octane | 3 - Sulphur trioxide | |
| 3 - Incomplete combustion | 4 - Tar | |
| 3 - Solvents | 3 - Tarry odors | |
| 4 - Organic compound | 4 - Turpentine | |
| 4 - Ancient manuscripts | 4 - Tetrachloroethylene | |
| 2 - Ozone | 3 - Tetrahydrofuran | |
| 4 - Warehouse odors | 3 - Textile dyeing | |
| 4 - Palm acid | 4 - Theater Odors | |
| 4 - Paper destruction | 4 - Toilet odors | |

Order Brofil type B, E, K, Hg or combination filters to optimize the range of filtration. Always consult the Health & Safety Officer before ordering.

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 air 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). Brofil advises that protective clothing and breathing protection should always be used when managing filters.



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.

3.4.1 General package for B10 series



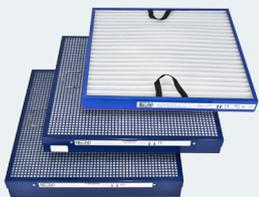
- P1 dust filter
- Type A carbon filter, 10kg

3.4.2 General package for B20 Compact



- P1 dust- or a P3 HEPA filter
- Double type A carbon filters, 10kg (=20kg)

3.4.3 General package for B30 Compact



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

3.4.4 Asbestos package for B10 series/B20 Compact



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

3.4.5 Asbestos package for B30 Compact



- P1 dust filter
- P3 HEPA filter (h=50mm)

3.4.6 Compost package for B10/ B10 Super Compact



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

3.4.7 Compost package for B10 Compact



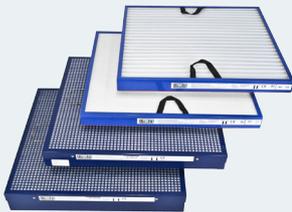
- P1 dust filter
- P3 HEPA filter (h=28mm)
- Type A carbon filter, 10kg

3.4.8 Compost package for B20 Compact



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

3.4.9 Compost package for B30 Compact



- P1 dust filter (h=50mm)
- P3 HEPA filter (h=50mm)
- Type A carbon filter, 17kg
- Type A carbon filter, 22kg

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.



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 & Safety Officer in your company. If you don't have a Health & Safety Officer, you can contact us for the best advice.

Cell. 0800 276 582

Mail info@brolube.co.nz

4. Types A.O.C.

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

The A.O.C. will automatically turn on when the vehicle is started. At the same time the A.O.C. 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 A.O.C. controls. We started with the A.O.C. Green V2, then the A.O.C. V4 Basic, Plus and Premium. In 2016 we developed a new A.O.C., the A.O.C. Green V3. This control is almost equal to the V2. While the maindrive of the V2 is mounted inside the pressurized filtration system, the maindrive of the V3 is mounted inside the A.O.C. so it is no longer part of the filtration system.

Optional for all variants:

- An external warning signal which is installed on top of the cabin.

This warning will activate if:

- the level of contamination is too high,
- there are no filters in the unit,
- the pressure is too high or too low.

- An additional module is available with multiple gas sensors to measure more gasses in your cabin.

4.1 A.O.C. V4 Basic



- On-off button.
- Filter detection by means of two LED lights.
- Changeable between machines with V4 bracket.

4.2 A.O.C. V4 Plus



- On-off button.
- Display indicates pressure in the cabin.
- Pressure can be adjusted with buttons.
- Filter detection.
- Changeable between machines with V4 bracket.

4.3 A.O.C. V4 Premium



- On-off button.
- Display indicates pressure in the cabin.
- Pressure can be adjusted with buttons.
- Filter detection.
- Programmable timer for the filters.
- Changeable between machines with V4 bracket.
- Standard equipped with PPM sensor.

4.3 A.O.C. Green V2



- On-off button.
- Display indicates pressure in the cabin.
- Pressure can be adjusted with buttons.
- Filter detection.
- Standard equipped with PPM sensor.

4.3 A.O.C. Green V3



- 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.

5. Regulations

5.1 CROW 132

According to the CROW132 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 NEN4444

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 to 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.

Signaling

- In order to see if the unit is in use and if filters are mounted, an indicator (A.O.C.) is present.
- The A.O.C. must be visible 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 A.O.C. 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 re-enter 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

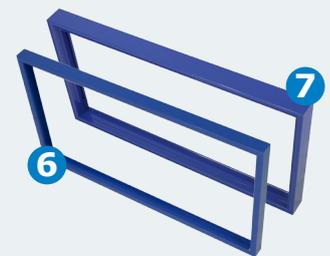
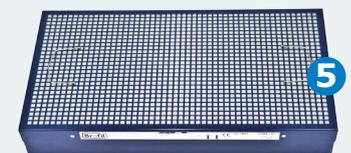
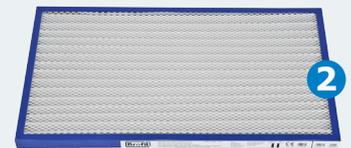
- The 'Pressurized Filtration System' must have warning label W01, as a visible warning on the use of appropriate PPE.
- The installed filters must have a label listed indicating the type of filter, filter class, manufacturer and installation date.

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.

Brofil B10 Combi 'rear outlet'

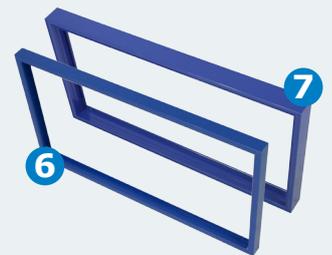
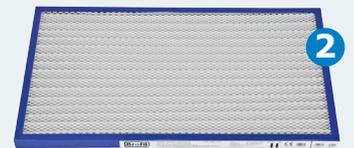


PIC.	PART NUMBER	DESCRIPTION
1	57-1205	Filter Box B10 with AOC V3 24V
1	57-1209	Filter Box B10 with AOC Basic 24V
1	57-1211	Filter Box B10 with AOC Plus 24V
1	57-1213	Filter Box B10 with AOC Premium 24V
1	57-1208	Filter Box B10 with AOC Basic 12V
1	57-1210	Filter Box B10 with AOC Plus 12V
1	57-1212	Filter Box B10 with AOC Premium 12V
1	57-1203	Filter Box B10 with 3-mode switch 24V
1	57-1202	Filter Box B10 with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbonfilter A 10kg
6	60-0001	Brofil B10 Frame 28mm
7	60-0002	Brofil B10 Frame 45mm
8	61-9006	NEW Brofil B10 P1 pre-filter - 2016
9	50-1005	Brofil B10 Plastic Cover

B10 Combi 'hatch mounted'

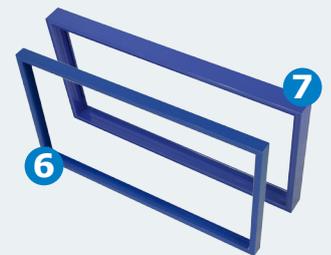
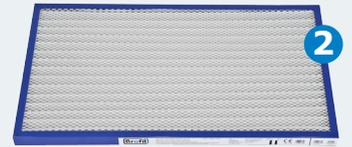
PIC.	PART NUMBER	DESCRIPTION
1	57-1203	Filter Box B10 with 3-mode switch 24V
1	57-1202	Filter Box B10 with 3-mode switch 12V
1	on request	Filter Box Brofil B10 with AOC 24V

Brofil B10 Super Compact



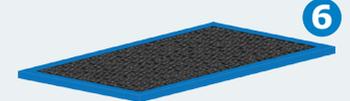
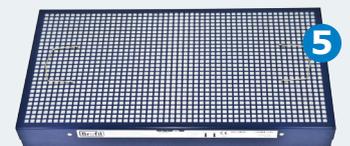
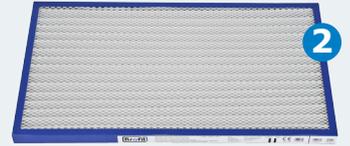
PIC.	PART NUMBER	DESCRIPTION
1	57-1255	Filterbox B10 SC with AOC V3 24V
1	57-1259	Filterbox B10 SC with AOC Basic 24V
1	57-1261	Filterbox B10 SC with AOC Plus 24V
1	57-1263	Filterbox B10 SC with AOC Premium 24V
1	57-1258	Filterbox B10 SC with AOC Basic 12V
1	57-1260	Filterbox B10 SC with AOC Plus 12V
1	57-1262	Filterbox B10 SC with AOC Premium 12V
1	57-1253	Filterbox B10 SC with 3-mode switch 24V
1	57-1252	Filterbox B10 SC with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	60-0001	Brofil B10 Frame 28mm
7	60-0002	Brofil B10 Frame 45mm

Brofil B10 Compact



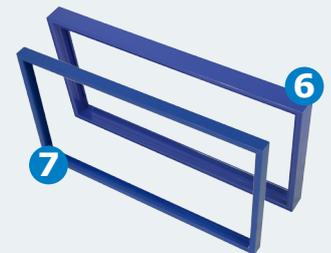
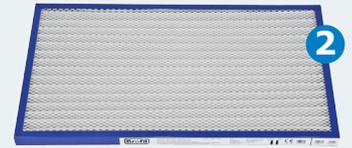
PIC.	PART NUMBER	DESCRIPTION
1	57-1305	Filterbox B10 C with AOC V3
1	57-1309	Filterbox B10 C with AOC Basic 24V
1	57-1311	Filterbox B10 C with AOC Plus 24V
1	57-1313	Filterbox B10 C with AOC Premium 24V
1	57-1308	Filterbox B10 C with AOC Basic 12V
1	57-1310	Filterbox B10 C with AOC Plus 12V
1	57-1312	Filterbox B10 C with AOC Premium 12V
1	57-1303	Filterbox B10 C with 3-mode switch 24V
1	57-1302	Filterbox B10 C with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	60-0001	Brofil B10 Frame 28mm
7	60-0002	Brofil B10 Frame 45mm
8	61-9002	Brofil Pre-filter B10C/B20

Brofil B15 Compact



PIC.	PART NUMBER	DESCRIPTION
1	57-1405	Filterbox B15 C with AOC V3 24V
1	57-1409	Filterbox B15 C with AOC Basic 24V
1	57-1411	Filterbox B15 C with AOC Plus 24V
1	57-1413	Filterbox B15 C with AOC Premium 24V
1	57-1458	Filterbox B15 C with AOC Basic 12V
1	57-1460	Filterbox B15 C with AOC Plus 12V
1	57-1462	Filterbox B15 C with AOC Premium 12V
1	57-1403	Filterbox B15 C with 3-mode switch 24V
1	57-1402	Filterbox B15 C with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	61-9006	Water Resistant filter (Nylon)

Brofil B20 Compact

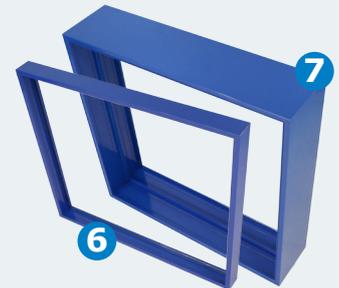
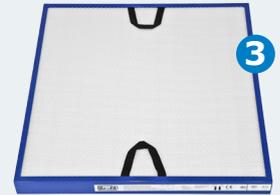


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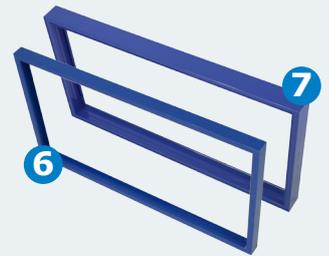
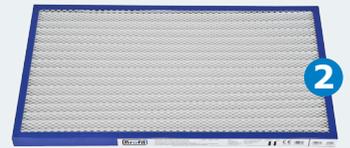
PIC.	PART NUMBER	DESCRIPTION
1	57-1505	Filterbox Brofil B20 with AOC V3 24V
1	57-1509	Filterbox Brofil B20 with AOC Basic 24V
1	57-1511	Filterbox Brofil B20 with AOC Plus 24V
1	57-1513	Filterbox Brofil B20 with AOC Premium 24V
1	57-1508	Filterbox Brofil B20 with AOC Basic 12V
1	520-21	Filterbox Brofil B20 with AOC Plus 12V
1	520-22	Filterbox Brofil B20 with AOC Premium 21V
1	57-1503	Filterbox B20 with 3-mode switch 24V
1	57-1502	Filterbox B20 with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	60-0001	Brofil B10 Frame 28mm
7	60-0002	Brofil B10 Frame 45mm
8	61-9002	Brofil Pre-filter B10C/B20

Brofil B30 Compact



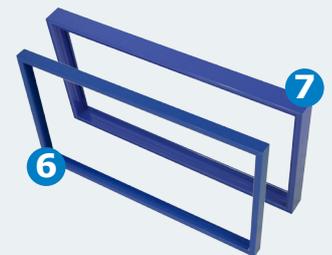
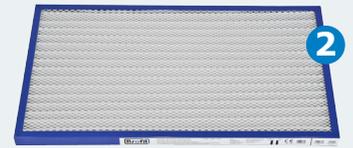
PIC.	PART NUMBER	DESCRIPTION
1	57-1605	Filterbox Brofil B30 with AOC V3 24V
1	57-1609	Filterbox Brofil B30 with AOC Basic 24V
1	57-1611	Filterbox Brofil B30 with AOC Plus 24V
1	57-1613	Filterbox Brofil B30 with AOC Premium 24V
1	57-1608	Filterbox Brofil B30 with AOC Basic 12V
1	57-1610	Filterbox Brofil B30 with AOC Plus 12V
1	57-1612	Filterbox Brofil B30 with AOC Premium 12V
1	57-1603	Filterbox B30 with 3-mode switch 24V
1	57-1602	Filterbox B30 with 3-mode switch 12V
2	61-3002	Brofil B30 Dust filter P1 (30mm)
2	61-3001	Brofil B30 Dust filter P1 (50mm)
3	63-3002	Brofil B30 HEPA filter P3 (30mm)
3	63-3001	Brofil B30 HEPA filter P3 (50mm)
4	64-3010	Brofil B30 Carbon filter A 17kg
5	64-3030	Brofil B30 Carbon filter A 22kg
6	60-0003	Brofil B30 Frame 50mm
7	60-0004	Brofil B30 Frame 150mm
8	61-9003	Brofil Pre-filter B30

Brofil B10 ABF



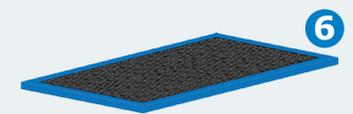
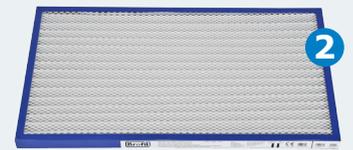
PIC.	PART NUMBER	DESCRIPTION
1	514-17	Filterbox B10 ABF with AOC Basic 24V
1	514-18	Filterbox B10 ABF with AOC Plus 24V
1	514-19	Filterbox B10 ABF with AOC Premium 24V
1	514-20	Filterbox B10 ABF with AOC Basic 12V
1	514-21	Filterbox B10 ABF with AOC Plus 12V
1	514-22	Filterbox B10 ABF with AOC Premium 12V
1	514-32	Filterbox B10 ABF with 3-mode switch 24V
1	514-31	Filterbox B10 ABF with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	60-0001	Brofil B10 Frame 28mm
7	60-0002	Brofil B10 Frame 45mm
8	61-9004	Brofil Inlet pre-filter P1
9	50-1005	Brofil B10 ABF Plastic Hood

Brofil B12 ABF



PIC.	PART NUMBER	DESCRIPTION
1	57-1355	Filterbox B12 ABF with AOC V3 24V
1	57-1359	Filterbox B12 ABF with AOC Basic 24V
1	57-1361	Filterbox B12 ABF with AOC Plus 24V
1	57-1363	Filterbox B12 ABF with AOC Premium 24V
1	57-1358	Filterbox B12 ABF with AOC Basic 12V
1	57-1360	Filterbox B12 ABF with AOC Plus 12V
1	57-1362	Filterbox B12 ABF with AOC Premium 12V
1	57-1353	Filterbox B12 ABF with 3-mode switch 24V
1	57-1354	Filterbox B12 ABF with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	60-0001	Brofil B10 Frame 28mm
7	60-0002	Brofil B10 Frame 45mm
8	61-9005	Brofil Inlet pre-filter P1
9	50-1006	Brofil B12 ABF Plastic Hood

Brofil B20 Compact ABF



PIC.	PART NUMBER	DESCRIPTION
1	57-1555	Filterbox B20 C ABF with AOC Green V3 24V
1	57-1559	Filterbox B20 C ABF with AOC Basic 24V
1	57-1561	Filterbox B20 C ABF with AOC Plus 24V
1	57-1563	Filterbox B20 C ABF with AOC Premium 24V
1	57-1558	Filterbox B20 C ABF with AOC Basic 12V
1	57-1560	Filterbox B20 C ABF with AOC Plus 12V
1	57-1562	Filterbox B20 C ABF with AOC Premium 12V
1	57-1553	Filterbox B20 C ABF with 3-mode switch 24V
1	57-1552	Filterbox B20 C ABF with 3-mode switch 12V
2	61-1001	Brofil B10 Dust filter P1
3	63-1001	Brofil B10 HEPA filter P3 (28mm)
4	63-1002	Brofil B10 HEPA filter P3 (60mm)
5	64-1050	Brofil B10 Carbon filter A 10kg
6	61-9006	Water Resistant filter (Nylon)

6.2 Carbonfilters

6.2.1 B10/B20 Carbonfilters

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



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

6.2.2 B30 Carbonfilters

PART NUMBER	DESCRIPTION
64-3010	Brofil Carbon filter A 70mm
64-3030	Brofil Carbon filter A 100mm
64-3011	Brofil Carbon filter B 70mm
64-3031	Brofil Carbon filter B 100mm
64-3012	Brofil Carbon filter E 70mm
64-3032	Brofil Carbon filter E 100mm
64-3013	Brofil Carbon filter K 70mm
64-3033	Brofil Carbon filter K 100mm
on request	Brofil Carbon filter Hg 70mm
on request	Brofil Carbon filter Hg 100mm
64-3014	Brofil Carbon filter AB 70mm
64-3034	Brofil Carbon filter AB 100mm
64-3015	Brofil Carbon filter AE 70mm
64-3035	Brofil Carbon filter AE 100mm
64-3016	Brofil Carbon filter AK 70mm
64-3036	Brofil Carbon filter AK 100mm
on request	Brofil Carbon filter ABE 70mm
on request	Brofil Carbon filter ABE 100mm
64-3017	Brofil Carbon filter AEK 70mm
64-3037	Brofil Carbon filter AEK 100mm
64-3018	Brofil Carbon filter ABEK 70mm
64-3038	Brofil Carbon filter ABEK 100mm
64-3019	Brofil Carbon filter ABEK Hg 70mm
64-3039	Brofil Carbon filter ABEK Hg 100mm

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

6.3 Filter packages

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

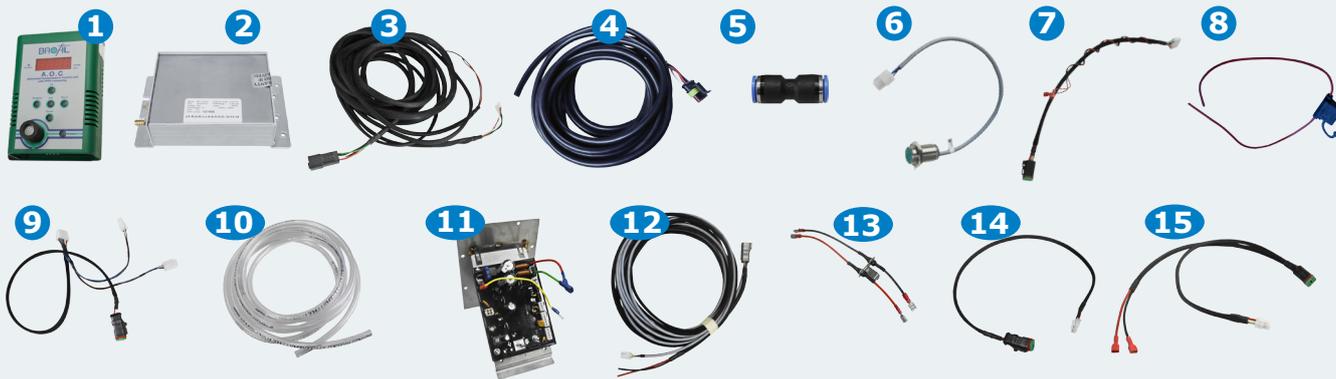
6.4 A.O.C. sets

PIC.	PART NUMBER	DESCRIPTION
1	55-3002	A.O.C. Green V2
2	55-2103	A.O.C. V4 Basic (on/off)
3	55-2104	A.O.C. V4 Plus (filterdetection)
4	55-2104	A.O.C. V4 Premium (gasdetection)
5	55-2100	Bracket Remote board A.O.C. V4.0
6	55-2203	A.O.C. Green V3 Complete

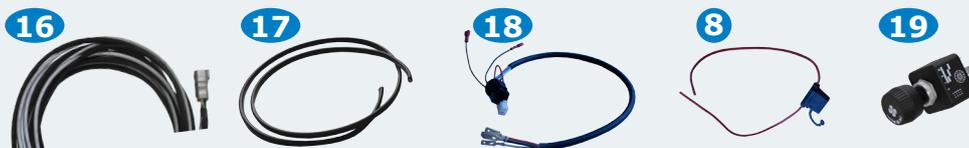


6.5 Spare parts

A.O.C. parts



3-mode switch parts



Blower



Closure and grip



Airhose and parts



Electric parts



Screws, nuts and washers



Sealing



PIC.	PART NUMBER	DESCRIPTION
1	55-2002	A.O.C. Remote Board V3 100 Pa
2	56-2205	Maindrive V3 100 Pa
3	56-2431	Mainharness A.O.C. (long)
4	55-2009	Intermediate cable 5.3m B10
5	99-1130	Connector qss-8
6	56-2006	Proximity Switch M18 A.O.C.
7	55-2004	Harness Maindrive - FAN A.O.C.
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 A.O.C. V02
13	55-2109	Harness Motor-main V02 EMC
14	55-2108	Harness Lamp-main V02
15	55-2107	Harness Fan-main A.O.C. 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	DESCRIPTION
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

PIC.	PART NUMBER	DESCRIPTION
50	90-9788	Contact for JWPF
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

Measurement report

Measurement report of cabin pressure

Brand vehicle : _____

Type : _____

VIN : _____

Licence plate : _____

Year of manufact. : _____

Report number : _____

Order number : _____

Part 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

A.O.C. : _____ Pa.

Note : _____

Measured by : _____

Employee : _____

Approved by : _____

signature

If you are looking for an appropriate solution or if there are any questions, please don't hesitate to contact our global offices.

We'll contact you as soon as possible.

BroLube Asia

80 Raffles Place
80 Raffles Place, Singapore
048624
+66399716444
info@brolube.com

BroLube Australia

7/18-20 McDougall Road
Sunbury
Victoria 3429
Australia
+61399716432
info@brolube.com

BroLube Canada

16694 113 Ave NW
16694 113 Ave NW, Edmonton,
AB T5M 3P9, Canada
+(1) 780 916 0777
admin.ca@brolube.com

BroLube New Zealand

P.O. box 1018
Rotorua 3040
New Zealand
0800 276582
billh@brolube.co.nz

BroLube Portugal

Ricardo Simao ; Luis Carvalho
Lufrigo - Climatização e
Refrigeração Unipessoal Lda
contribuinte 514518146
telemovel 914758718
info@brolube.com

BroLube The Netherlands

Westelijke Havendijk 17C
4703 RA Roosendaal
+31 (0) 165 239 000
info@brolube.com

BroLube UK

11 High Street
Ruddington
Nottinghamshire
NG116DT
+441952462614
info@brolube.com

BroLube USA

5935 Kopetsky Drive
Suite B
Indianapolis, IN, 46217, USA
(1)317 8848477
info@brolube.com