



 **BROTEC**
BY FRESHFILTER

Press folder | Stand N° 3-D145



Brotec France

Hall 3 - D145

Thank you for your interest in our extended range of compact tubular pressurization solutions with unique features.

Since 2007 Brotec France has been carrying out and ensuring the installation, throughout France, of pressurization and filtration systems (SPF). In line with the new needs of a market more attentive to environmental concerns, our products are entirely designed and manufactured in France in the Rhône basin. Our systems, made up of 3 sub-assemblies (box, filters and electronics) are intended to establish healthy air in the cabin of machinery operating in an area of organic or chemical pollution, in an environment with asbestos risk or simply with a high content of fine and aggressive dust.





Brotec France

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HOW IT WORKS



When working inside a cabin, contaminated air from the outside can get inside.



This creates an unhealthy and dangerous work environment, which may lead to serious health issues.



Now, or in the future.



Brotec's "cab air filtration systems" are created for your safety and meet the highest quality standards.



The system creates a slight pressure inside the cabin. Air from the outside is filtered, which ensures that only clean air is blown into the cabin.



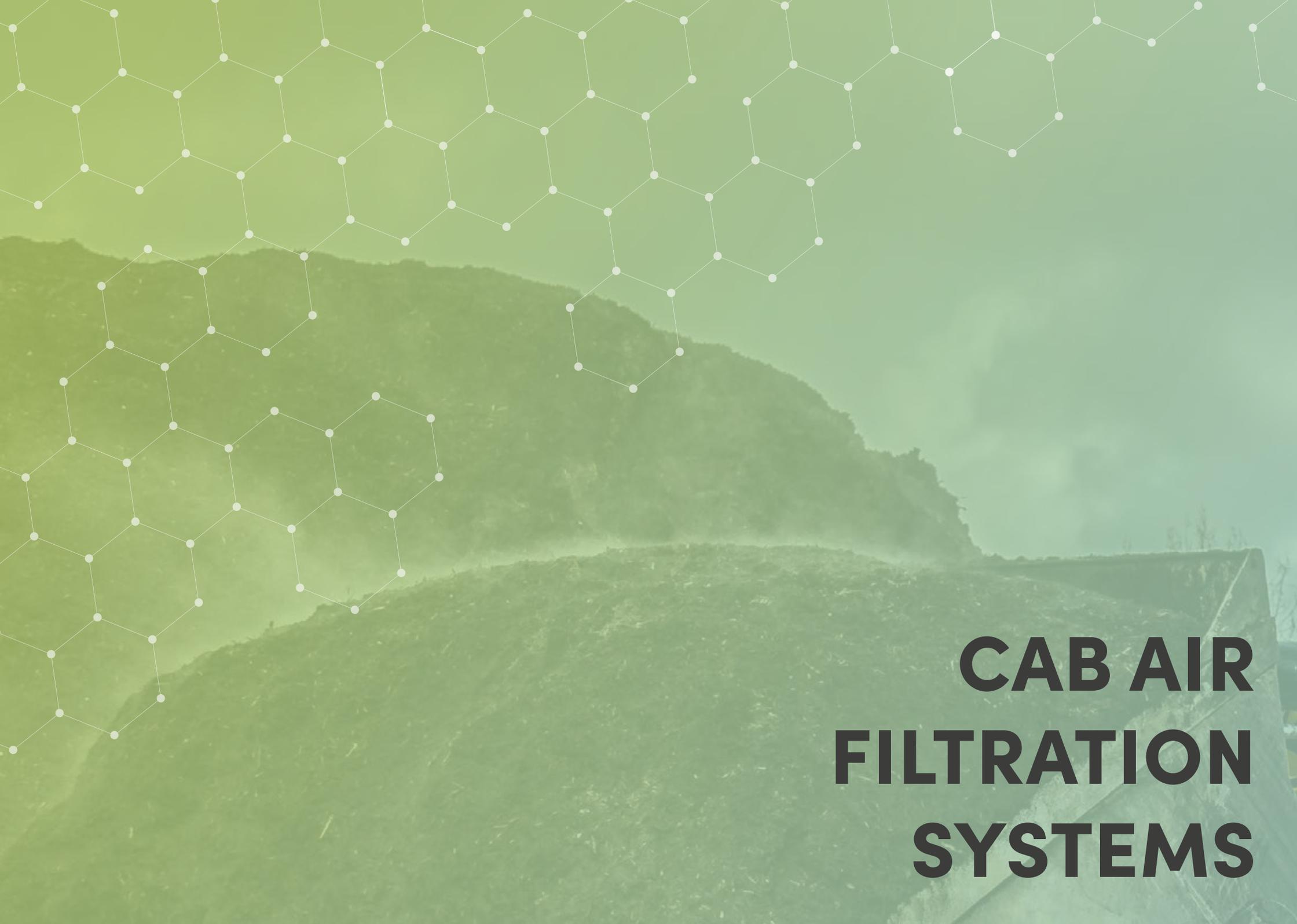
The cabins are sealed, so that less air is needed to get the cabin to the required pressure.



This way, pollution from the outside, stays outside. At Brotec, we manufacture all our products in house. We offer solutions for any type of machine.

Together we will look for the best solution for your personal situation. Visit us at **3 - D145** for more information and personal advice.





CAB AIR FILTRATION SYSTEMS



CAB AIR FILTRATION SYSTEMS



With a diameter of only 350 mm the F20 from Brotec is the most compact Cab air filtration system available.

350 mm



13 KG

Not including filters

430 mm



New



Despite its compact design, the F20 is characterized by its high filtration capacity. Air is drawn into the lower ventilated portion of the hood, up the sides and throughout the circumference. It is pulled through the filter then downward. The clean pure air is then forced through outlet into the cabin creating an overpressure. All components and assembly parts are made of stainless steel, which makes the F20 and its accessories extremely durable.

F20



Air drawn upward uses the natural advantage of gravity as the initial stage of particulate removal, and the vertical positioning of the filter facilitates dust shedding due to machine shock and vibration during daily operation. These two clever uses of gravity dramatically increase filter life.



The F20 filter is a round tube type element making it impossible to install incorrectly. The radial fan ensures that air flow occurs at a uniform 360 degrees, creating optimal air distribution throughout the filter medium. This design has the additional effect of limiting noise level, making the F20 comparatively quieter than other filtration systems on the market.



The compact F20 is fitted for a 3.5 kg activated carbon filter and can be adjusted and altered to filter many different environmental contamination levels.



**FILTRES À
PLACER**

Filtrage des poussières

Filtre combiné P1/P3 (H13)
EN1822

Filtrage des gaz

3,5 kg filtre de carbone
EN12941 - EN14387



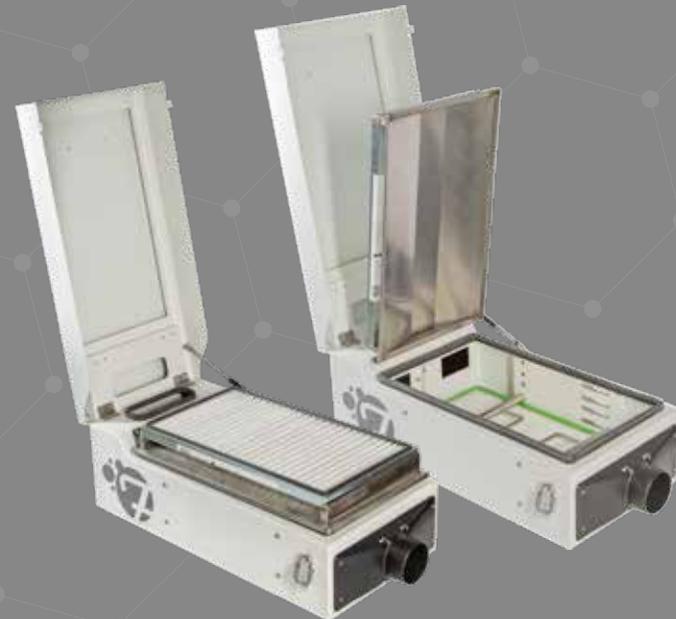
All delivered P3 dust filters are tested individually for leakages and will be supplied with a test certificate. Brotec is the only producer of cab air quality filters that fills the filter under high pressure, therefore these can absorb 10% more carbon.

CAB AIR FILTRATION SYSTEMS

★
The Brotec F33 is of limited height, but is ideally suited to protect the operator from the highest pollution.



28 KG
not including filters



440 mm

295 mm

★
The Brotec F33 system is a high-end filter system for all types of machinery. Its unique design with all possible filter combinations makes the F33 the perfect system for every situation. All components and assembly parts are made of stainless steel, which makes the F33 and its accessories extremely durable.



900 mm

F33



The F33 features pre-filtration against gravity. This means that the air is drawn via the underside of the P1 pre-filter. The main benefit of this is that coarse dust particles can escape from the F33 as a result of vibrations. This results in a considerable extension of lifespan compared to other systems on the market.



The air is drawn from the pre-filter through the lid and into the second filter compartment. It is then blown rather than drawn through the downstream filters (P3 and optional activated carbon filters). This unique feature ensures an extremely low airspeed.



Order only the filters you need with the new Brotect quick clamping system. The total filling height of the filter compartment is 150 mm. However, any combined height of Brotect filters can be achieved. With the F33, filling frames and complete filter packs are a thing of the past.



**FILTRES À
PLACER**

Filtrage des poussières	P1 filtre (F5) et P3 filtre (H13) EN1822
Filtrage des gaz	10 kg filtre de carbone EN12941 - EN14387



All delivered P3 dust filters are tested individually for leakages and will be supplied with a test certificate. Brotect is the only producer of cab air quality filters that fills the filter under high pressure, therefore these can absorb 10% more carbon.

CAB AIR FILTRATION SYSTEMS

★
The F33R's low (235mm) profile and compact design make it ideal for rooftop installation.



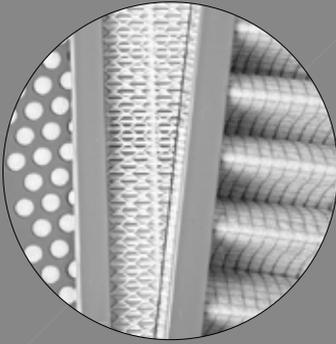
28 KG
Not including filters



The Brotec F33R is a universal cab air filtration system for trucks and mini excavators. It is designed to filter out high concentrations of harmful gases and boasts a high filtration capacity despite its compact size. All components as well as all parts such as supports and air connections are made of stainless steel. An F33R with accessories is therefore very durable.



F33R



The F33R system uses a 600x336 filter with a large filter compartment designed to hold a 10kg activated carbon filter in combination with a P3 (H13) & P1 dust filter. These features make the F33R model ideal for the most severe air remediation requirements.



The F33R cab filtration system is made in-house at Brotec from high-quality stainless steel. Replacing filters on the F33R is a safe and simple task. The hood is easily opened and secured without dismantling, enabling the operator to use both hands while completing the filter replacement.



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**FILTRES À
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**SIGNALING
BROTEC**



SIGNALING BROTEC



The F3000 is fully digital, works quickly and has a modern appearance, meaning that it fits perfectly into all current cabin equipment inserts.



98 mm

198 mm



In automatic mode, the controls ensure that the overpressure in the cabin is at least 100 Pa. If there is too much or too little pressure on the cabin, a visual and acoustic alarm is triggered so that the operator is immediately alerted to the possible danger.



max. 1 number of odor sensors



Deutsch DT Connector



24/7 connectivity



Fully interchangeable



Automatic start

F3000



A maximum of three different types of filters can be recognized and displayed on the control panel. The cabin pressure and any alarms are also displayed at all times on the F3000. With four vandal-resistant buttons, the F3000 can be operated according to the operator's needs.



The display with hydrocarbon meter is optional. The HC value can be displayed on the LED screen. An alarm sounds if the value exceeds five PPM (even if the HC is not displayed on the screen). This HC module can also be retrofitted to the F3000.



The FFCVSK2 cable harness offers you the ultimate preparation. All overpressure filter systems and controllers are supplied from a single connection, meaning that everything is interchangeable. Upon request, Brotect can also set up the F3000 to operate on machines from other manufacturers.

F3000 FEATURES

Material	Steel
Language	French
Compatible with	F20, F33 et F33R
Voltage	12 / 24 V
Filter detection	3x
Datalogging	✘
Remote reading	✘
Permanent display pressure	✔
Continuous display air pollution	Optional

CO2 PPM level visible (ISO23875)	Optional
Filter warning at end of runtime	✘
Acoustic and optical alarms	✔
Low tightness pre-alarm	✔
Plug & Play	✔
Hours of filter usage on display	✔
Touch screen operation	✘
on / off switch	✔
CANBUS ready	✘

SIGNALING BROTEC

New

★
Brotec proudly presents the latest innovation of overpressure cabin monitoring: The F4000 is the all-rounder on the market with a view to the future.



129 mm

78 mm

★
With a completely new design (with both button and touchscreen operation), the controller, like its predecessors, automatically regulates the pressure and will immediately warn the operator of possible dangers. Values that have been measured are stored so that you always have insights into the functioning of the system.



∞ number of odor sensors



RJ50 Connector



24/7 connectivity



Fully interchangeable



Automatic start

F4000



One of the new features of the F4000 is the new filter registration. Register your filters easily and quickly in your signaling. This data can be viewed digitally directly on your own Brottec portal. The F4000 will also warn you in time when the running time of the installed filters has expired.

The F4000 can be equipped with several odor sensors at the same time. With sensors inside and optionally also outside the cab, the operator has real-time insight into the air quality. The sensors are plug and play, the various safety limits are also set correctly and graphically displayed on the display.

All data from the F4000 can be found in real-time in the online machine portal. In this secure environment you will find, in addition to the data from the overpressure filter system, machine inspections and the filter registration. Has the running time of the filters expired? Filters can also be ordered easily via the same online portal.

F4000 FEATURES

Material	Plastic	CO2 PPM level visible (ISO23875)	Optional
Language	Multilanguage	Filter warning at end of runtime	✓
Compatible with	F20, F33 et F33R	Acoustic and optical alarms	✓
Voltage	12 / 24 V	Low tightness pre-alarm	✓
Filter detection	3x	Plug & Play	✓
Datalogging	✓	Hours of filter usage on display	✓
Remote reading	Optional	Touch screen operation	✓
Overpressure value visible	✓	on / off switch	✓
HC sensor PPM level visible	Optional	CANBUS ready	✓



pollutec 
ACTIVATEUR DE LA TRANSITION ÉCOLOGIQUE

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