

Protective Ventilation Systems



BMair

The air we breathe is vital

Clean air is critical for peoples health, especially in workplaces in polluted environments. A BMair protective ventilation system cleans the air entering the control cabin and thus ensures optimal protection for the occupants. Furthermore, the system offers state of the art monitoring and warning signals. Optionally, the control unit can log all recorded cab data so that you can control the work environment and can respond adequately to any exposure to toxic substances.

Operation of the BMair protective ventilation system

- The BMair protective ventilation system is mounted on the roof of the cabin or on the deck of the machine.
- The polluted air is sucked in through the inlet of the system.
- The coarse dust particles are first filtered out, followed by fine dust using a HEPA filter.
- Gases and vapors are then removed by the active carbon filters.
- The blower drives the filtered breathing air into the cabin.
- The monitoring system checks, the cabin overpressure, the lifespan of the filters and optionally the air quality by means of additional sensor (s).
- Excess air exits the cab through any remaining seams and cracks.
- A green light on the roof is optional and indicates that the system is fully functional.



Employers; Being safe and healthy is the standard

Choose the best for your employees

If you truly care about the health of your employees, then we have a common goal. We don't pretend to care about the health of your employees; we are truly passionate in what we do. Because that is what your employees expect of us, not just because it is a legal requirement but simply because they deserve a healthy work place. And because a safe work place should

simply be the standard. Do you think the same way as us? As the worldwide market leader in protective ventilation systems, we are happy to introduce you to our systems and filters.

BMair systems are not just a socially responsible choice, but also a very smart choice. Completely attuned to your RI&E; the health risks are

drastically reduced. Our data-logging modules record all the air values. BMair offers indispensable tools so your employees can continue working in a healthier and safer environment. For you this means managing your business in a sustainable way.



A solution for every working environment



Composting

Composting plants and biomass processors accept large quantities of organic waste on a daily basis. When processing organic waste, machine drivers and operators are exposed to large quantities of hazardous gases, vapours and fungi. Contact with these substances, through the airways or even the pores in the skin, can lead to serious health problems. The company and the machine operators should want to prevent this at all times.



Storage & transport

Drivers are often exposed to peaks in the concentration of polluted substances, such as when a polluted substance is stored in a container. At these times, a properly protected cabin with purified air is of crucial importance. Exposure to even the smallest concentration can be life threatening in the short term. These dangers should never be underestimated. Operator health is our top priority.



Remediating

Dismantling derelict factories, tar pits or waste sites is not without risk. On the contrary, machine operators without proper protection are exposed to extreme health risks. The slightest exposure can already lead to chronic fatigue, headaches and concentration problems. BMair systems and filters guarantee that operators can work more safely in these types of conditions.



Quarry & Mining

Mining machine operators are automatically exposed to lots of dust. Many substances are relatively harmless in small quantities. However, in large quantities these substances can be dangerous. In addition, substances such as quartz (respirable silica) are always dangerous. Quartz particles are super fine, nearly invisible and can penetrate deep into the lungs. The long-term consequences of this are often serious and even life threatening. Protracted contact moments are a major health risk.



Demolition

Various substances are released during demolition work. Some are harmless, while others are hazardous and even extremely toxic. When you work with insufficient protection and particles are released, you expose yourself unnecessarily to these hazards. Airways and eyes are irritated, or even worse. In addition, the equipment in the cabin is also affected. Prevent problems and ensure filtered air for machine operators.



Recycling

Recycling sites are ideal places for fungi, bacteria and viruses to multiply. They are released into the air in great quantities during collection, transportation and re-handling of the waste materials. This leads to high concentrations of polluted air in a short time. These peak moments are dangerous for machine operators who process the waste. Even exposure to small quantities can lead to serious health problems, sick leave or even disability.



Agriculture

Spraying of agrichemicals is common practice across all sectors of agriculture and presents high risks to operator's health. It is widely documented that these dangerous chemicals are carcinogenic leading to serious illness or death. The slightest exposure can lead to chronic fatigue, headaches, concentration problems and transfer on clothing into the home. BMair systems and filters guarantee that operators can work more safely in these types of conditions.



Fire & Emergency

Fire fighters undertake their work in some of the most hazardous work environments of any occupation, exposed to many carcinogens leading to the highest cancer rates as indicated by the WHO. When it comes to the clean up of structural and wild fires it is typically carried out by heavy equipment, exposing those operators to the same carcinogens as the fire fighter collected in the ash combined with quartz dust leading to serious health problems.

Protective ventilation systems

BMair has a wide range of protective ventilation systems. Each BMair system can be equipped with a filter package tailored to your specific working environment. In combination with our control systems, there is a solution for every workplace. Our experts have extensive knowledge of which system best suits your work environment and can advise you in combining the system with the appropriate control system and filter package.



BMair F20

The F20 is a compact, powerful and suitable for practically every construction machine. Despite its compact design, the F20 is characterised by its high HEPA filtration capacity making it ideal solution for Quarry, Mining, Construction & Asbestos industries.

- Weight: 13 kg without filters
- Dimensions: 350 x 430 mm (W x H)
- Filter capacity: 41 liter
- Material: Stainless steel / Plastic



BMair F33

Get ready to revolutionize the way we fight unhealthy air with this stainless steel powerhouse engineered for the most demanding of environments.

- Weight: 28 kg without filters 900 x 440 x
- Dimensions: 295 mm (L x W x H)
- Filter capacity: 35,5 liter
- Material: Stainless steel



BMair F33-R

With its streamlined design and compact height, this system is exceptionally suitable for roof installations, without compromising on capacity.

- Weight: 28 kg without filters
- Dimensions: 715 x 665 x 235 mm (L x W x H)
- Filter capacity: 30 liter
- Material: Stainless steel



NEW



BMair Protector

The BMair Protector is the base module of our new modular concept, which can be used stand-alone for ultimate dust filtration.

- ✓ Can be mounted horizontally and vertically
- ✓ For standard & heavy dusty conditions

• Weight: 8 kg without filters

The BMair Protector stands out for its effectiveness and efficiency, thanks to the HEPA-14 filter class and a specially developed fan. The upgraded filter class, compared to any other brand on the market, ensures even better filtration of toxic fine dust.

The BMair Protector meets the strictest international standards. Its features ensure compliance with both current and emerging regulations



BMair Protector Plus X

The Protector Plus X combines two modular elements into a single protective ventilation system with maximum efficiency in both dust and gas filtration.

- ✓ Suitable for roof mounting
- ✓ For standard & heavy workplace conditions

The BMair Protector forms the basis for ultimate dust filtration. Before the air reaches the Plus X module, it is completely dust-free. Then the air flows into the Plus X module through an 11 kg activated carbon filter, which efficiently removes gas molecules from the air providing the ultimate protection for the operator.

Controllers

A protective ventilation system and its filters offer machine drivers and operators optimal protection. A controller acts as a means of control and alerts the user on time when caution is called for. BMair offers controllers in various designs (4000 for F Series & Connect for Protector) for optimal safety. This way, machine drivers and operators are always optimally equipped in every specific situation.



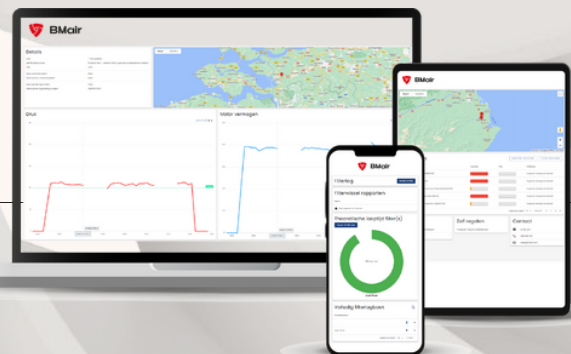
Always Online – A Revolution in Real-Time Monitoring.

Introducing BMair Connect, the groundbreaking control unit developed alongside the BMair Protector.

Once the system starts up, BMair Connect takes full control, automatically managing operations. In the event of potential hazards like pressure loss or gas detection in the cabin, BMair Connect promptly issues warnings and suggests solutions. The standout feature is its advanced online connectivity: all processes and protocols are accessible 24/7 through a real-time online portal, providing constant oversight and control.

- Stay connected with the BMair Connect Portal for immediate access to current information
- Benefit from enhanced filter registration and logging through our patented RFID technology (Protector Only)
- Easily view and download maintenance reports directly from the portal

Optionally, the controller can be equipped with a sensor (for example, HC, NH₃, H₂S and CO₂). When activated carbon filters are used, a sensor in the controller becomes mandatory in most cases. This sensor measures real-time air quality in the cabin, if the limit value is exceeded the controller will alarm.

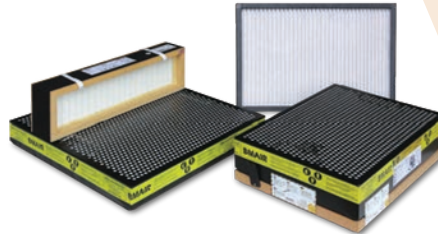


Combifilters

The BMair filters ensure that machine drivers work more safely than ever, even in polluted work environments. Especially in polluted environments. Because our advanced and patented technology make our systems and filters exceptionally effective. Even under the harshest conditions.

BMair Combifilters offer protection against:

- Benzene (Vapours from solvents and hydrocarbons (e.g. diesel))
- Asbestos (Toxic particulate matter, asbestos silica dust and heavy metals)
- Dredger (Vapours from dredging spoil such as bacteria, toxic particulate matter, heavy metals and H₂S)
- ABE/K (Vapours such as H₂S and ammonia. (caution: not for use with



- cyanides such as HCN)
- ABEK (Vapours from cocktail of toxic substances. In accordance with EN14387)
- Ammonia/GFT (Vapours from waste and composting such as spores,

bacteria, viruses, organic and ammonia)

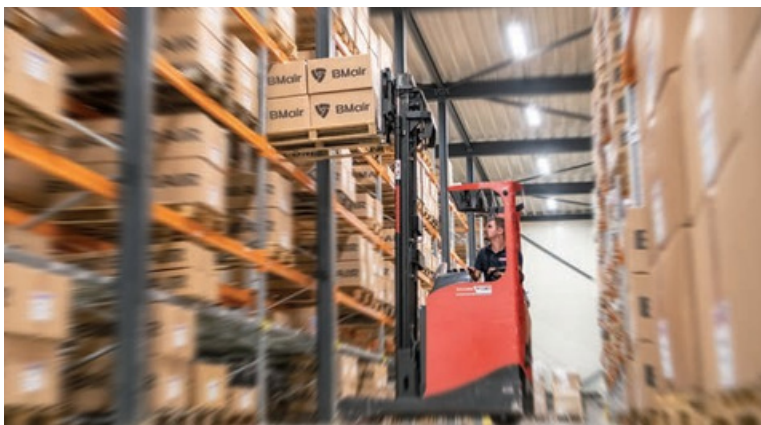
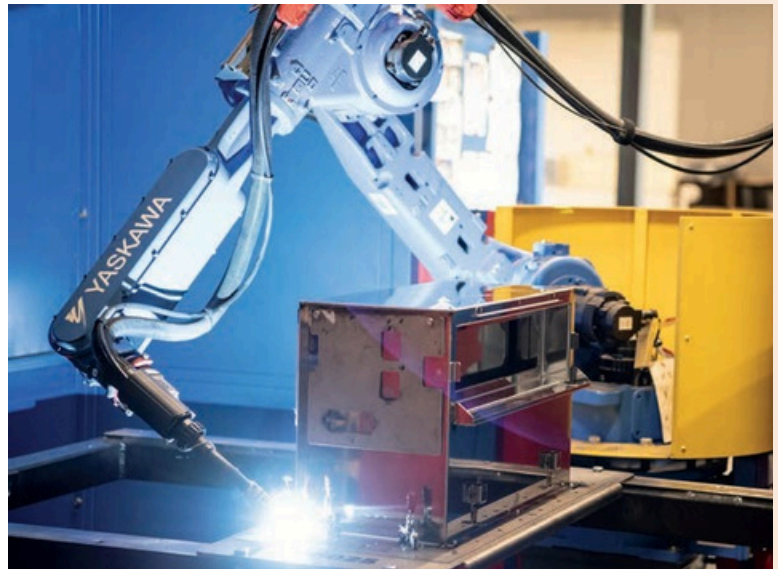
- For various gases, vapors and/or applications customer-specific options

Thanks to the automatic filter recognition you always know which filter is installed and whether it needs to be replaced. This prevents the unit from having to be opened unnecessarily and harmful substances being released.

Innovation and passion

We use our knowledge and enthusiasm daily to develop even better systems and filters. The collaboration with partners from various sectors provides innovative solutions that we share and make available.

Are you looking for a customised filter or solution? We regularly deal with bespoke customised work. We are happy to work along with you.



We fight unhealthy air

For 25 years, our goal has been to provide them with the cleanest air possible at all times, every minute and every second of their workday. We never compromise when it comes to breathing air; after all, it is our human right.

The integrity of us as an organisation depends on the quality of our products. Therefore, it is of the utmost importance that our protective ventilation systems are of the highest standard. Only then can we achieve our goals: "the cleanest air possible for every machine operator who works in a polluted (mobile) work environment".

As the market leader in the protective ventilation systems market, we are getting closer to our objective every day. Many operators are already working with our protective ventilation systems. Do you have the best protection in place for your operators?



BMair



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