



**We Fight
Unhealthy Air!**



BMair

Product Brochure

Every machine operator deserves clean air



As the European market leader, BMair is dedicated to optimally protecting machine operators with high-quality protective ventilation systems.

While the dangers of large, contaminated projects are often recognized, significant health risks also exist for operators working with heavy machinery in the cabin. During daily operations, an operator may not even be aware of the potential threats to their health. This brochure provides insights into tailored solutions for the hazards present in various industries and how BMair can assist you.

Every machine also deserves clean air

Our systems protect not only the air conditioning but also the high-quality electronics installed in the cabin from dust and corrosion, thereby significantly reducing downtime and preventing costly repairs.

A solution for every work environment



Composting



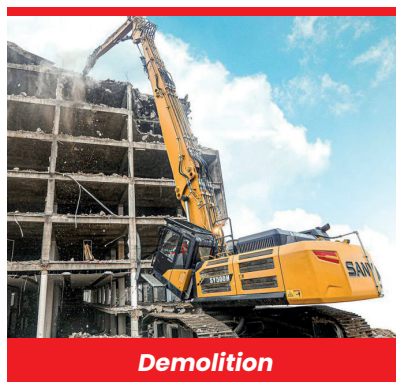
Storage & Transport



Remediation



Waste & Recycling



Demolition

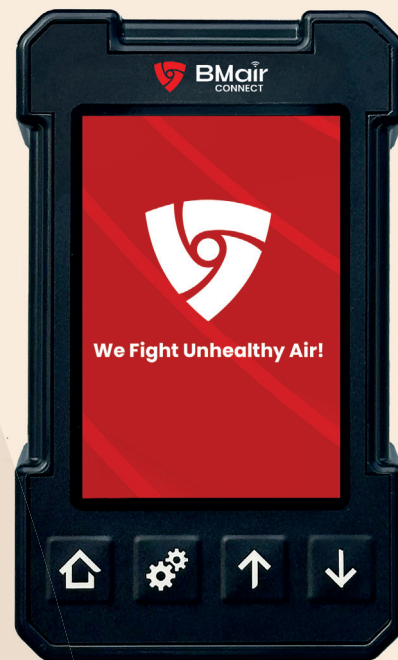


Mining

BMair Connect

Always online – The real-time monitoring system that will revolutionize the market.

Our new control unit, BMair Connect, developed in collaboration with the BMair Protector, takes over complete control automatically after the system start-up. In the event of potential hazards such as pressure loss or gas detection in the cabin, BMair Connect immediately issues warnings and suggests solutions. The most outstanding feature is the newly developed online connectivity: All processes and protocols are accessible 24/7, automatically, and in real-time through an online portal.



BMair Connect can be optionally expanded with a plug-and-play gas sensor.

To monitor air quality in cabins, plug-and-play sensors are available. In environments where carbon filters are installed, it is recommended – and often required – to place a sensor. Various types of sensors are available for BMair Connect, including VOC, NH3, and CO2.



- ★ Always connected to the BMair Connect portal for real-time access to current information.
- ★ Advanced automatic filter registration and logging via patented RFID technology.
- ★ View and download maintenance reports online.

BMair Protector

Specifically designed for dusty environments.



Key features:

- Weighs only 8 kg, including bracket and filters.
- Can be mounted both horizontally and vertically.

Our latest development is as compact as possible, without compromising functionality. The pressure filtration system, made of polypropylene, fiberglass, and stainless steel, contains unique components specifically designed to create overpressure. A crucial element, the fan, has been carefully calculated, tested, and developed in-house to achieve the optimal balance between flow, pressure, and motor power. The result: improved stability of pressure and flow compared to existing systems.

The BMair Protector stands out for its effectiveness and efficiency, thanks in part to the HEPA-13 filter class. The filters are housed in a robust plastic casing, minimizing direct contact with contaminated materials.



Application of the BMair Protector

The BMair Protector is the core system of a modular setup. As a foundation, the Protector is ideally suited for dust filtration.

Applications	Filter typ	Color code
Dust- no harmful gases and/or vapors Construction material recycling (quartz dust, asbestos, concrete) Mineral wool recycling (rock wool, glass wool) Paper recycling (old paper) Plastic recycling Wood waste processing (no hardwood!) Recycling and transshipment of scrap metal Asphalt mixture processing	HEPA	

BMair Protector Plus X

Modular horizontal expansion, suitable for installations such as roof-mounted assemblies.



The Protector Plus X is BMair’s first modular system, with the BMair Protector serving as the foundation for dust filtration. After high-efficiency dust filtration, the air enters the Plus X, where it is purified of gases and vapors by an 11-kg activated carbon filter. The Plus X is available as an expansion kit or as part of a complete Protector Plus X package.

BMair MAO-3C

The all-round system for every type of contamination.



Housed in a robust stainless steel casing with a modern plastic cover, the MAO-3C features a uniquely shaped, self-cleaning HEPA filter. Additionally, this innovative design allows for a filter combination with a compact 10-kg activated carbon filter. The MAO-3C is controlled by BMair Connect and, like the Protector (Plus X), can be monitored online.

Application of the BMair MAO-3C & Protector Plus X

Applications	Filter typ	Color code
Dust & Gases and/or Vapors Household waste transshipment Recycling of light packaging Bitumen and asphalt recycling Contaminated wood (hardwood, railway ties, tar-treated hunting enclosures)	HEPA + Activated carbon Type A	
Dust & Gases and/or Vapors Composting facility	HEPA + Activated carbon AK	
Dust & Gases and/or Vapors Landfills Ammunition clearance Remediation of contaminated sites Fire damage remediation	HEPA + Activated carbon ABEK Conform EN14387	

Suitable for the following machines

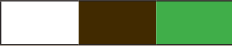
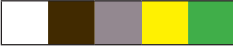
					
		Protector	MAO-3C Cab Guard	MAO-3C Cab Guard	MAO-3C Cab Guard
Installation location		Universal	Deck / Fender	Deck / Fender	Deck / Fender
Filter typ		HEPA	HEPA	HEPA + A	HEPA + AK
					
	Mini Wheel loader				
	Mini excavator				
	Rollers				
	Skid steer loader				
	Wheel loader				
	Comact Dozer				
	Crawler excavator				
	Wheel excavator				
	Dozer				
	Dump Truck				
	Forklift				
	Material handler				

Attention!

The specified filter type must always be verified by the safety officer (QHSE) in relation to the work environment in which the machine is used. We disclaim any responsibility for the selection of filters by the client.



BMair

				
MAO-3C Cab Guard	Protector Plus X	Protector Plus X	Protector Plus X	Protector Plus X
Deck / Fender	Roof	Roof	Roof	Roof
HEPA + ABEK	HEPA	HEPA + A	HEPA + AK	HEPA + ABEK
				
				
				
				
				
				
				
				
				
				
				
				
				

* Other filter types (special filters) available upon request.

**We believe clean air
is a fundamental right**



BMair

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