



PROTECTIVE VENTILATION AND DUST FILTER SYSTEMS





BREATHING PROTECTION SYSTEMS

SAFE, DURABLE, AND EASY TO RETROFIT

From standard dust filter systems to robust high-end protective ventilation systems – We offer retrofit solutions featuring low purchase and operating costs that are able to be adapted to suit nearly any machine in your entire vehicle fleet.

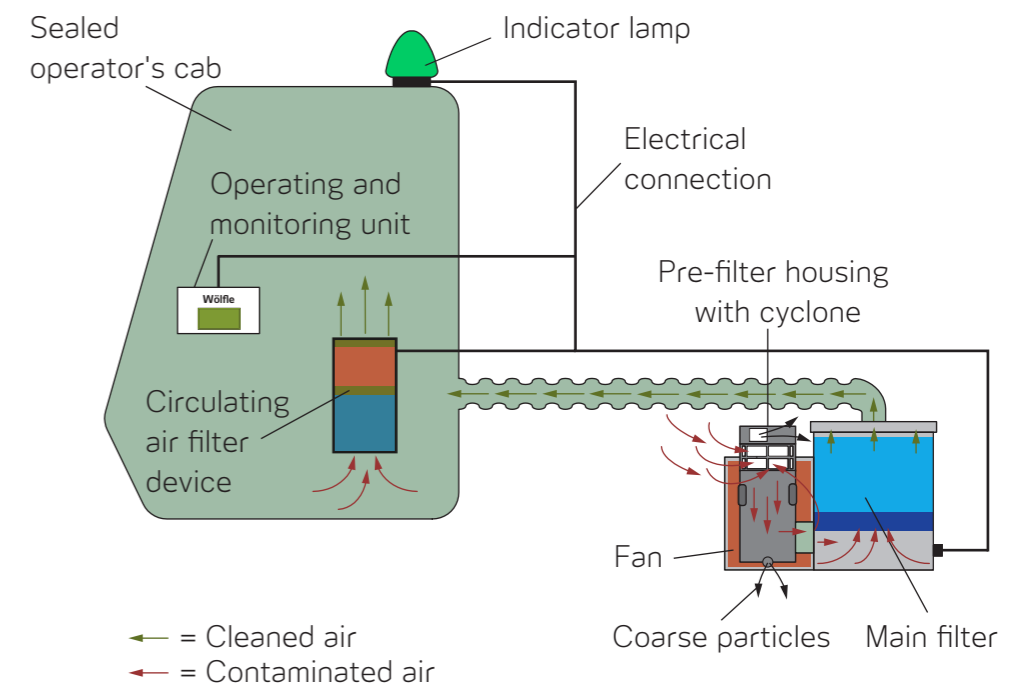
Wherever people and machines are active in contaminated areas, machines need to be equipped specially for this application. Whether use involves garbage dumps, composting systems, renovation work, or disposal of legacy military waste, our systems are protected against toxic gases, hazardous substances, dust particles, and unpleasant odours, and they meet the requirements of the German Construction Act (DGUV Information 201-004 and BGI 581).

Our breathing protection systems feature a tough metal housing suitable for construction machines and a robust, electrically operated motor with a fan. They are built light, durable, and compact and are also very well-suited to use with smaller construction machines. The systems supply the driver with clean, filtered air and repel hazardous substances present in ambient air. In this case, contaminated air flows through multiple filter stages to separate rough and fine particles, suspended materials, and hazardous gases. The continuous supply air in the cabin produced by our breathable air filter systems generates a defined positive pressure of 100-300 Pa. This guarantees that no contaminated is able to penetrate the cabin from the outside. The cabin pressure is monitored electronically multiple times and indicated by a display and control unit positioned in the field of vision of the driver. These protective ventilation systems feature a circulating air filter device in the cabin as an additional safety measure. This ensures consistent air flow against the filter. This high-quality air preparation and the integrated positive pressure monitoring enable our systems to operate with significantly less external air than comparable systems on the market, which increases filter service life and therefore reduces operating costs. The separation of suspended materials also extends the life cycle of the air conditioning system and its components.

Depending on the required use conditions, we offer the right product for every customer. Browse an overview of our family of breathing protection systems products.

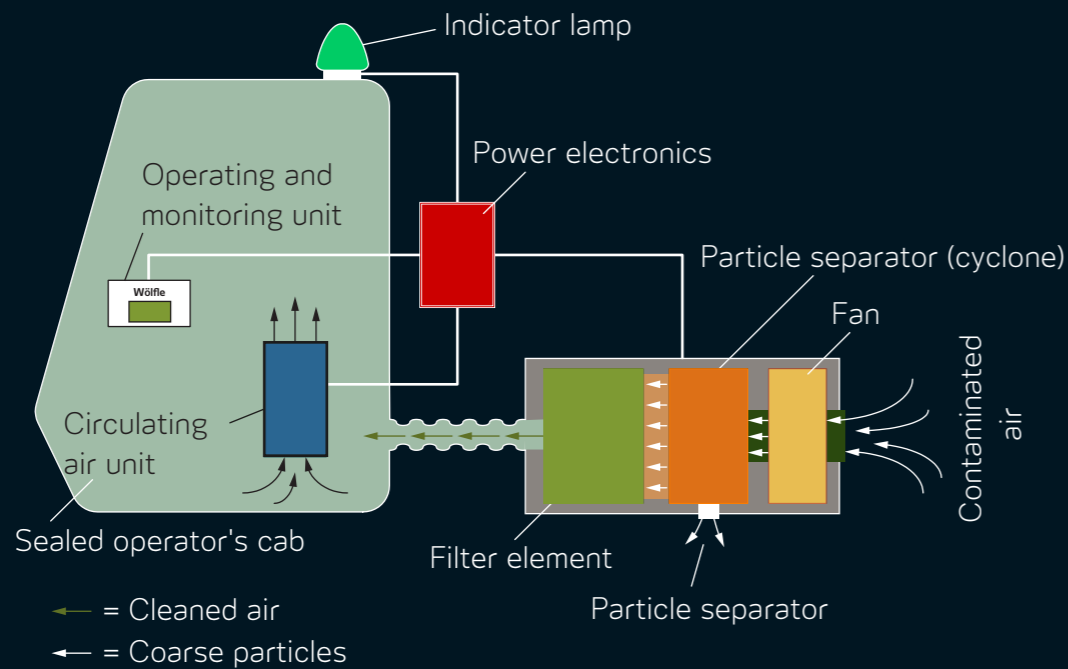
SBL 30 COMFORT PROTECTIVE VENTILATION SYSTEM

- > Simple and intuitive operation with pressure display
- > Intrinsically safe due to blowing configuration *2 → high-performance fan (3 stages)
- > Checked according to DGUV Information 201-004 (BGI 581 and EN 15695 up to Cat. 4)
- > Positive pressure monitor
- > Maintenance-free basic device via a triple seal system integrated on the filter element
- > Very low, consistent air conveyance quantity of 35 m³/h for a long filter life cycle → lower operating costs
- > Low-price filter thanks to simple filter housing
- > Tested gas and suspended material filter *1
- > Robust stainless steel housing - painted
- > Also able to be used purely for dust filtration
- > Delivery scope including accessories like circulating air filter device and beacon light



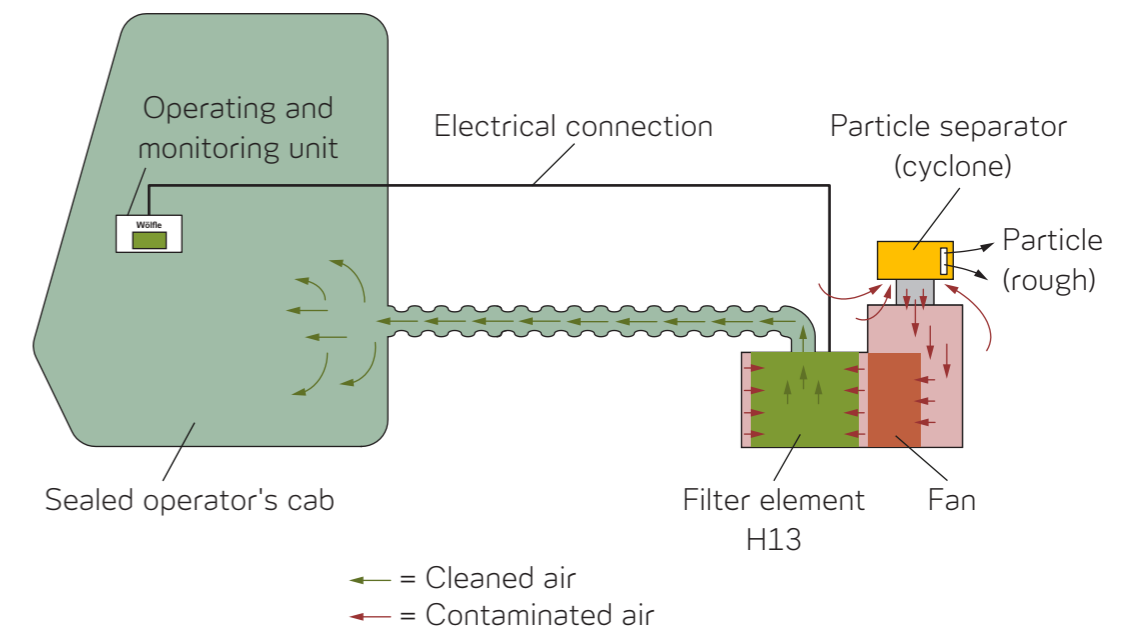
SBL 30 PREMIUM PROTECTIVE VENTILATION SYSTEM

- > Simple and intuitive operation with graphical and plain text display in various languages
- > Intrinsically safe due to blowing configuration ^{*2} → stageless, brushless, high-power fan
- > Checked according to DGUV Information 201-004 (BGI 581 and EN 15695 up to Cat. 4)
- > Multiple electronic monitoring of positive pressure and the filter system
- > Maintenance-free basic device via a seal system integrated on the filter element
- > Very low, consistent air conveyance quantity of 30 m³/h for a long filter life cycle → lower operating costs
- > Developed according to military standards and built extremely robust
- > Tested gas and suspended material filter, patented maintenance-free multi-cyclone ^{*1}
- > Aluminium injection-moulded and stainless steel housing
- > Also able to be used purely for dust filtration
- > Delivery scope including accessories like circulating air filter device and beacon light



SF 120 DUST FILTER SYSTEM

- > Very simple operation with integrated pressure display
- > Intrinsically safe due to blowing configuration ^{*2} → high-performance fan (3 stages)
- > Tested H13 dust filter with very large filter surface area for long filter life cycle ^{*1} → lower operating costs
- > Based on DGUV Information 201-004 and EN 15695 Cat. 1 to 3 (according to applicability)
- > Cost-effective alternative to a protective ventilation system for purely dust applications
- > Vibration-optimised fastening via special damping elements



FILTER SYSTEM

MULTI-STAGE FILTER SYSTEMS

*1

Rough filtering for removal of particles via cyclone with G4 filter (Comfort) or patented multi-cyclone (Premium).

Separation degree higher than 98%. In accordance with ISO 16890 (previously EN 779).

Dust filtration for removal of suspended materials like soot, Asbestos, fungus, and bacteria via H13 filter in accordance with EN 1822.

Gas filtration thanks to standard ABEK or special breathing protection filters (H₂S, NH₃) for filtration of

(A) gaseous hazardous materials like organic gases and vapours

(B) inorganic gases and vapours like chlorine, hydrogen sulphide, hydrogen cyanide

(E) acidic gases like sulphur dioxide and hydrogen chloride

(K) ammonia and organic ammonia derivatives

(H₂S) special filter for hydrogen sulphides

(NH₃) special filter for ammonia

All gas filters correspond with EN 14387 and EN 12941. These test reports are provided by an independent testing laboratory and are available for viewing.

*2

In case of the **blowing configuration**, the fouled air flows through the fan first and the gas filter, in contrast to an extracting arrangement. This places pressure on the filtered air (negative pressure side), and no contaminated air is able to penetrate between the gas filter and the cabin connection in case of leaks.

In case of extracting systems, there is a risk that contaminated air will be sucked in between the gas filter and the fan.

SERVICE

FAST, RELIABLE, AND COMPREHENSIVE

The Wölfle Group is a modern, innovative family-owned company with more than 45 years of tradition in the area of driver cabins, heating and air conditioning systems, displays, and control systems, electronic controls, and cable assemblies. Our customers benefit from a bundled wealth of experience encompassing more than 25 years in these areas of activity, including protective ventilation.

Wölfle Industrie- und Kraftfahrzeugteile Vertriebs GmbH is a subsidiary of Wölfle GmbH, and in addition to sales, after-sales service, and replacement parts supply, the company also coordinates training for drivers and employees, as well as other requirements involving the subject of protective ventilation.

Our Europe-wide, comprehensive service network also provides speedy help with construction, conversion, repair, and maintenance of Wölfle products, as well as products from other manufacturers in this area.

REFERENCES

THESE COMPANIES RELY ON US

KOBELCO BOMAG  **KALMAR**

 **TEREX**  **JCB**  **FUCHS**
A TEREX BRAND

CAT **KOMATSU** **HITACHI**

LIEBHERR **DOOSAN**

SENEBOGEN  **MANITOU**
HANDLING YOUR WORLD

Linde Material Handling





