



BMair F20

Compact, powerful and suitable for practically every construction machine. Despite its compact design, the F20 is characterised by its high HEPA filtration capacity



Datasheet HEPA
Dust Filtration



BMair *F20*



Despite its compact design, the BMair F20 is characterized by a high filter capacity. The standard version is particularly suitable for heavy dust contaminations. However, it can also be configured in combination with a 3.5 kg or even a 10 kg activated carbon filter.

With a diameter of only 350 mm, the BMair F20 is the most compact protective ventilation system available on the market





Despite the trend of machines becoming increasingly compact, the F20 is easy to install, for instance, on the deck or fender of a machine.



Longer lifespan

The filters of the F20 have a significantly longer lifespan compared to traditional protective ventilation systems. This is because the ambient air is drawn in against gravity. Vibrations and movements of the machine can cause coarse dust particles to escape from the filter.



Round shape

Thanks to the round shape of the P1/P3 (H13) dust filter, incorrect filter placement is a thing of the past. The radial fan ensures uniform 360° air distribution across the entire filter medium. This not only utilizes the entire filter surface but also makes the system quieter.



The correct filters

It is important to use the correct filter elements for each application. In the standard version, a P1/P3 combination dust filter can be installed, or a combination of P1/P3 and a 3.5 kg activated carbon filter. With an optionally available high cap, it is even possible to install a 10 kg activated carbon filter.

BMAir ensures that the activated carbon does not settle

It is crucial that carbon filters do not settle. To prevent this, BMAir fills the carbon filters under high pressure. As a result, an activated carbon filter for the F20 contains a minimum of 110% of its filling capacity. This ensures that the operator is assured that the activated carbon does not settle and effectively filters the (toxic) vapors associated with the specific type of carbon used.

Fully automatic control

The F20 is equipped with automatic control. It is driven by the F4000 controller located inside the cabin. When the machine is started, the controller automatically activates. The pressure is promptly built up, ensuring immediate protection for the operator. If, for example, the positive pressure is insufficient, the controller will promptly issue a warning.

When using an activated carbon filter extensively, an optional gas sensor is often required. The F4000 can be expanded with this sensor as an optional feature. The sensor measures the air quality inside the cabin and can detect the breakthrough of an activated carbon filter faster than the operator.

It is recommended to have the sensor checked during the annual inspection of the positive pressure filtration system. Dealers can often perform this inspection on-site using the latest techniques, eliminating the need to send anything in and ensuring that the operator does not have to work without protection.



Technical Specifications F20

Dimensions

Ø350mm, standard height 430mm
(830mm with high cap)

Dust filtration

P1/P3 combination dust filter (ISO16890
& H13 according to EN1822)

Weight

13 kg without filters

Gas filtration

3.5 kg or 10 kg Activated carbon filter(EN12941 /
EN14387)

Max . pressure

500 Pascal, 120m3 per hour

In accordance with regulations

ISO23875 /NEN4444 /
CROW400