



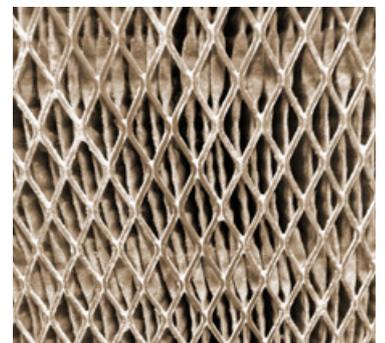
Freed from dust

M-AIR217 – Innovative and economic purging unit for filter cartridges

Filter cartridges are installed in many vehicles (excavators, dump trucks, wheel loaders, bulldozers, trucks, etc.). They are used for filtering the combustion air of the engine or the air in the driver's cab.

These vehicles are working in the following environments: quarries, stone breaking works, gravel pits, open pit mining, underground mining, cement industry, concrete factories, plaster factories, steel works, and they are also used in the farming industry and by forwarding companies.

Owing to the dusty work environments, filter cartridges contaminate and have to be replaced regularly. A professional, automatic, and gentle purging of filter cartridges is much more economical.



The new **M-AIR217** purging unit blows the dust with a specially designed blowing nozzle in a controlled manner from the inside to the outside. This way, filter cartridges can be safely cleaned and maintained in regular intervals.

The use of the equipment is absolutely easy. Pre-programmed work cycles are started at the push of a button. The cleaning sequence is fully automatic.

M-AIR217

Design

The purging unit has a circular design like the cartridges to be cleaned. There is one maintenance door (upper door) and two doors for operating the purging unit. Laterally mounted are the control cabinet for the electrical system and under it the service cabinet for the pneumatic system. The unit can be fixed to the floor at various points.

- The pneumatic actuator is installed in the upper part of the purging unit, enabling the blowing nozzle to move upwards and downwards. Compressed air is supplied to the blowing nozzle via a connected energy chain.
- The filter cartridge to be cleaned is placed vertically on a grating in the central part.
- Dust collector and aspiration ports for the industrial type vacuum cleaner are located in the lower part.



Cleaning sequence

- 1** Place the filter cartridge inside the purging unit and close the door
- 2** On the display, set the type of filter
- 3** Set the number of cleaning cycles on the display. One cycle means one passage up-down-up. The control system can store cycle values for different types of filters.



The cleaning process goes from the inside out – dirt and dust return just the same way they came in.

- 4** Switch on the industrial vacuum cleaner to suck the dust off

5 After five (5) seconds the hydraulic cylinder starts moving downwards. As soon as the blowing nozzle moves into the filter cartridge, it starts to rotate. The dust is blown from the inside out of the filter where it falls down into the dust collector.

The hydraulic cylinder moves down to the bottom and returns upwards to the top of the cartridge. The first cycle is completed.

The set number of cycles is processed. At the end of the last cycle the hydraulic cylinder returns to its initial upper position.

- 6** After ten (10) seconds the industrial vacuum cleaner is switched off

- 7** Remove the cleaned filter cartridge



Filter purging unit: M-AIR217

The following cylindrical cartridges can be cleaned:

Height:	150 – 700 mm (higher in special execution)
Outer diameter:	180 – 450 mm (larger diameter in special execution)
Inner diameter:	130 – 260 mm



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