



OEM & RETROFIT



# CLEAN MINING!

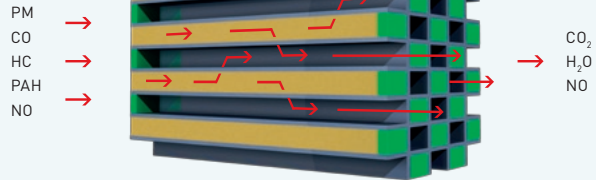
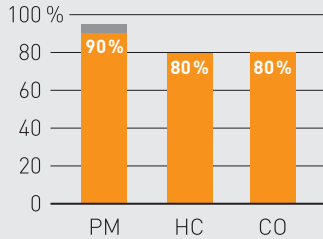


## **PROAIR® MINING DIESEL PARTICULATE FILTER – THE COST-EFFECTIVE WAY TO REDUCE EXHAUST EMISSIONS IN MINES AND TUNNELS**

Underground mines and tunnels are the most challenging environment to work in – for both people and machines. Productivity and efficient emission control that follows health and safety legislation are equal, key priorities. Proventia's PROAIR® Mining Diesel Particulate Filters are specially designed for underground mining and tunnel equipment. PROAIR® Mining Filters reduce particulate matter in the exhaust gas (> 90 %) and CO and HC emissions (> 80 %) without increasing secondary emissions of NO<sub>2</sub> in the exhaust gas. Compared to increasing the ventilation capacity, installing efficient emission control systems in already existing equipment is the more cost-effective way to improve air quality in mines.



Purification performance



# How PROAIR® Mining Diesel Particulate Filters work



PROAIR® Mining Diesel Particulate Filters are continuously regenerating systems with a special low NO<sub>2</sub> filter element that does not increase NO<sub>2</sub> emissions. PROAIR®'s precious metal coated wall-flow filter collects particulate matter (PM) and reduces HC and CO emissions. Once the exhaust gas reaches an adequate level for regeneration, the collected PM is oxidized at normal diesel operating temperatures.

**SPECIFICATIONS & BENEFITS**

- For diesel engines > 200 kW
- PM reduction > 90 %
- CO & HC reduction > 80 %
- No NO<sub>2</sub> increase
- No additives or complex regeneration components required
- Minimum downtime for filter maintenance
- Easy-to-install, application-specific design available
- Long maintenance intervals
- PROCARE™ Data Logger continuously monitors the engine's back pressure and informs the driver beforehand of potential maintenance needs

**SAFE OPERATION WITH PROCARE™ DATA LOGGER**

Thanks to optimal filter dimensioning, the back pressure of PROAIR® filters is kept low and maintenance intervals are long. Proventia's PROCARE™ Data Loggers are offered as an option to guarantee optimal and safe operation of the filter.



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**CASE: PYHÄSALMI MINE**

Pyhäsalmi is an underground copper and zinc mine located in central Finland producing copper, zinc and pyrite. Proventia's PROAIR® Mining Diesel Particulate Filters have been in use in the Pyhäsalmi mine with positive user experiences. The filters operates smoothly even in tough underground conditions.

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