



RETROFIT →



TUNED TO MEET THE LIMITS!

→ PROVENTIA PROAIR® MUFFLER REPLACEMENTS

Growing awareness and concern over the adverse effects of particulate matter (PM) have motivated cities and governments around the world to implement Low Emission Zones (LEZ) in order to improve air quality and to make it safer to breathe. In Low Emission Zones the most polluting

diesel vehicles can be banned or charged a fine. Retrofitting such vehicles with a diesel particulate filter can reduce the vehicle's emissions to meet the LEZ emission standards. Proventia's PROAIR® Muffler Replacement DPF provides an efficient retrofit solution for commercial vehicles with

EURO 1, 2 and 3 engines. PROAIR® MR systems are installation-ready and tailored to fit certain vehicle makes and models, which ensures quick and easy installation. PROAIR® MR filters replace the original muffler without the necessity of modifications to the vehicle or the filter.





Meet PM limits with PROAIR® Muffler Replacements

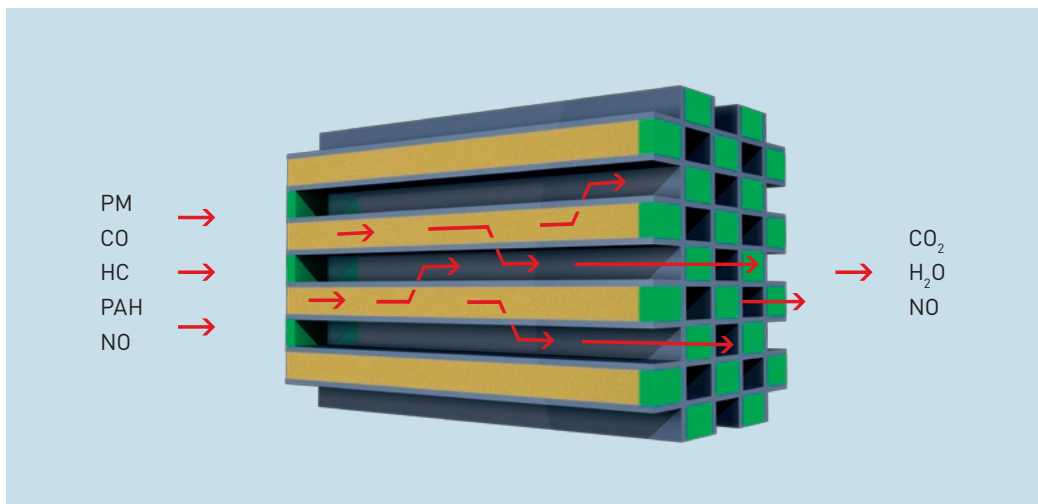
The PROAIR® MR product range covers the majority of all makes used in transport and logistics, including DAF, IVECO, MAN, MERCEDES, SCANIA and VOLVO vehicles. PROAIR® MR filters are manufactured from premium materials using market-leading catalyst

substrates and coatings. Dimensioning of the filters is optimized for each vehicle model. This results in excellent purification performance, over 90% PM reduction, and in long maintenance intervals. Retrofitting your vehicle with a PROAIR® filter is a cost-

efficient way of updating to meet required emission regulation in LEZs and for road tolls (e.g. German MAUT), for example. Proventia provides PROAIR® MR filters for two engine size categories: Medium category and Extra Large category.



PROAIR® M MR DPF	PROAIR® XL MR DPF
For medium-duty vehicles 215 kW/ 290 hp	For heavy-duty vehicles up to 353 kW/ 480 hp
Upgrades the vehicle for PM emissions from EURO 3 to EURO 4	Upgrades the vehicle for PM emissions from EURO 1, 2 & 3 to EURO 4
PM reduction → 90%	PM reduction → 90%
HC & CO reduction → 80%	HC & CO reduction → 80%
	Available also with special low NO2 filter option



How PROAIR[®] filters work

PROAIR[®] MR filters are based on the principle of passive regeneration. This means that the soot oxidation temperature is lowered to a level that is reached during regular engine operation. A wall-flow filter that is coated with precious

metals collects particulate matter (PM) and also reduces HC and CO emissions. Once the exhaust gas reaches an adequate level for regeneration, the collected PM is oxidized.

SAFE ON THE ROAD WITH PROCARE[™] DATA LOGGER

Thanks to optimal filter dimensioning, the back pressure of PROAIR[®] filters is kept low and maintenance intervals are long. In addition, Proventia provides PROCARE[™] Data Logger with the filters; the data logger saves filter data onto a memory chip. PROCARE[™] Data Logger guarantees optimal and safe operation of the filters by continuously monitoring engine's back pressure and informing the driver of potential maintenance needs.



To ensure operational reliability PROAIR[®] filters are always accompanied with PROCARE[™] Data Loggers.



Specifications & Benefits

- High purification performance,
→ 90% PM reduction
- Excellent for LEZ retrofits
- Installation-ready systems for commercial vehicles 170–353 kW
- For a majority of all makes and models used in transport and logistics
- Easy installation
- Long maintenance intervals
- Stainless steel robust structure
- Regenerates and cleans itself during regular vehicle operation
- Accompanied by PROCARE™ Data Logger
- PROAIR® filters have been approved and are in use in several European Low Emission Zones, for instance in Denmark, Germany and the UK.