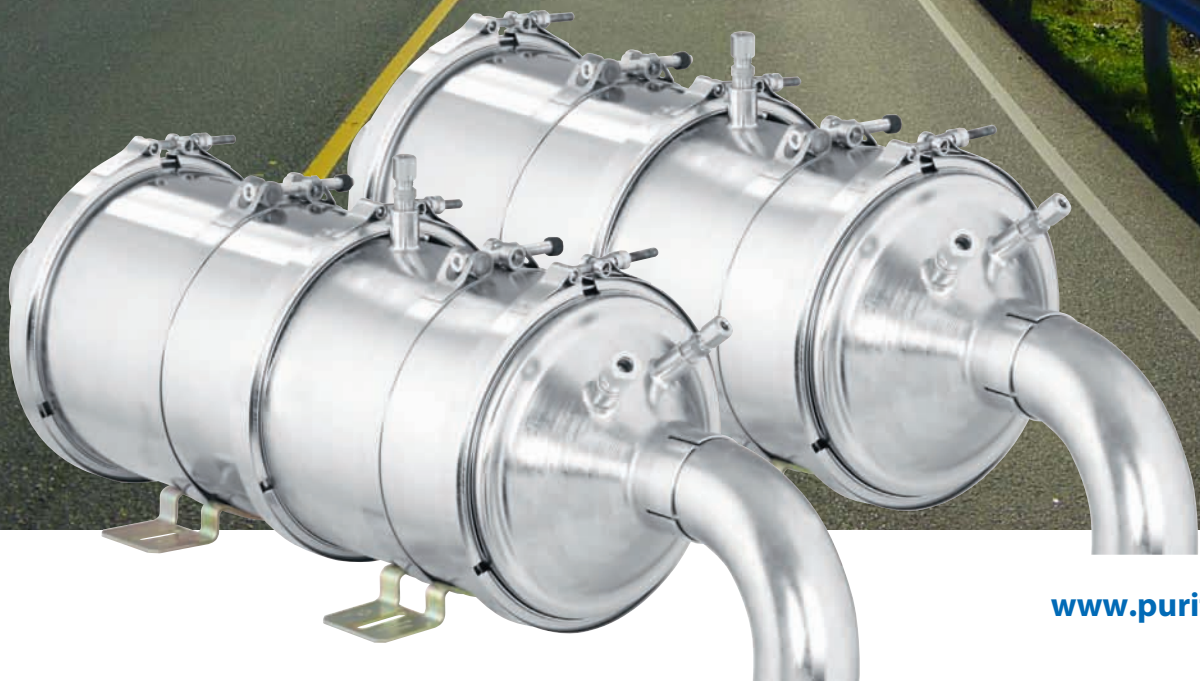


Clean Air for Generations



Diesel Particulate Filters



Rail Vehicles



OFF-ROAD Systems Rail Vehicles

Experience and application know-how in the rail sector

With 20 years of experience in the manufacturing of exhaust purifiers for large diesel engines and over 10 years in the rail sector **PURltech** has a fundamental and extensive know-how in application technology. Longstanding and reputable references from users and manufacturers demonstrate the high performance and reliability of the **PURltech** system and the high competence of the company. Our large and experienced service network ensures fast response times and professional care and maintenance of our filter systems.

The appropriate filter system for all cases in a modular building block system

With the large variety of systems, we can offer a practical solution for every application and optimally designed filter sizes respective to the diesel engine! Thus, you will not only get filter systems for rail applications but for all equipment and vehicles in your fleet – Top quality and service from a single source. With our modular system an effortless installation and low maintenance is ensured. Our larger filter designs in conjunction with professional cleaning technology leads to long service intervals. The result: high availability and low cost of operating.

DAS-DBS system – active regeneration

Self regenerating system for continuous operation (3-shift work). This filter system with “combined regeneration” combines an active regeneration (fuel injection into the exhaust stream) with a passive “catalytic” regeneration. The advantage is that the filter is regenerated continuously under all operating conditions without interruption – even with frequent / predominantly low-load operation. The filter regeneration takes place automatically during the operation without intervention of the operator. The special feature of this system is that machines with low engine load can be equipped as well as engines with high soot emissions or rather older type engines.

DPF-2 system – passive regeneration

Self-regenerating system for continuous operation (3-shift work). The system has two stages and is composed of a pre-filter and filter module with specific catalytic coating which results in the self-regeneration even at medium engine loads. Thus, a self regeneration happens already at a medium temperature exhaust gas and thus permanently low exhaust back pressure. The DPF-2 system also tolerates longer low load phases, when afterwards the machine is operating at higher engine load.

The special feature: due to the modular design of all **PURltech** systems can later – a passive filter (DPF-2) be converted in an active filter system (DAS-DBS).

Benefits **PURltech** systems in the rail sector:

- high functional reliability / durability in rail applications
- customized filter systems to fit the requirements in the rail sector– often low load / continuous operation without interruption
- modular system with standard modules for quick and easy maintenance
- low operating costs due to: quality materials / optimum system design / long maintenance / reduced spare parts costs
- technology for the reduction of nitrogen dioxide (NO₂) with filter system (DPF) over the entire engine map

Our technology is characterized in particular by:

- worldwide certificates: among others VERT / BAFU, TRGS 554, BGR 160, AUVA, KBA, TÜV, GGVS / ADR, 2005/55/EG, RDW, LEC / Tfl, MSHA, CARB & EPA (under examination)
- maximum reduction of harmful substances: PM (soot): – 99,9%*, NO₂: – 30%*, CO: – 95%*, HC: – 99%*
*depending on the filter system and test cycle
- high quality and reliability – used by major manufactures (among others Daimler / Mercedes Benz, Liebherr, TEREX, Atlas Copco, Bell, Volvo, Wacker-Neuson, Kramer).
- no increased fuel consumption / long term operation through continuous filter regeneration: the filter is only slowly charged by soot due to the self-regeneration