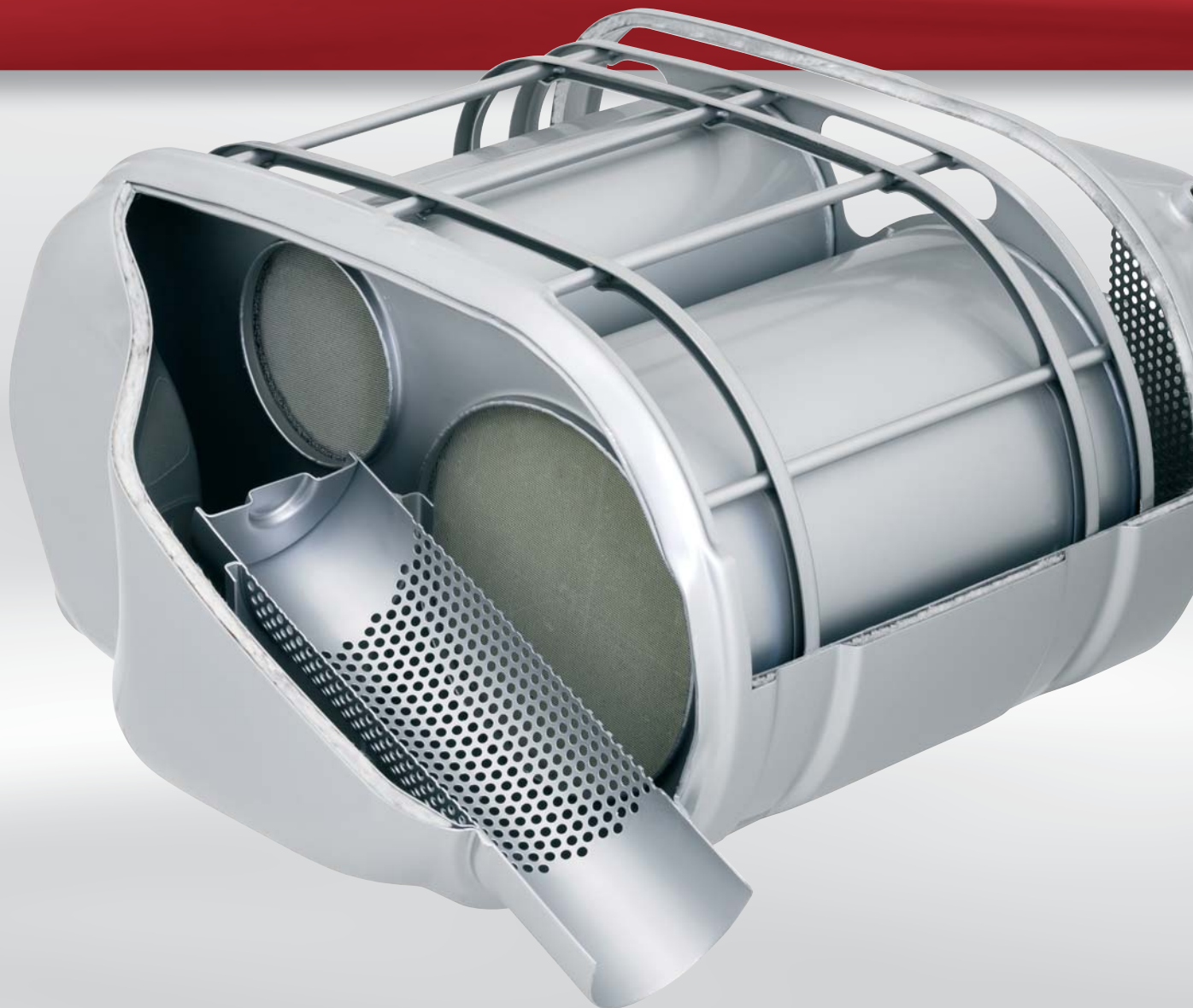


Commercial Vehicle Emissions



ArvinMeritor is respected around the world for generating leading-edge emission technologies that bring greater efficiencies and improved quality to OEMs, dealers, aftermarket retailers and – ultimately – to the end user.

International centres of expertise for research and development, engineering, and manufacturing allow the ArvinMeritor Commercial Vehicle Emissions team to provide tailored solutions to specific applications virtually anywhere in the world.

As global environmental standards tighten on nitrogen oxide (NO_x) and particulate matter emissions from medium- and heavy-duty diesel engines, ArvinMeritor is revolutionizing emissions control with the introduction of its Clean Air Solutions portfolio, which includes the Selective Catalytic Reduction (SCR) and Thermal Regenerator systems.



MERITOR[®]

an **ArvinMeritor** brand



Selective Catalytic Reduction (SCR)

The ArvinMeritor Selective Catalytic Reduction system reduces NO_x emissions by utilizing a catalyst to convert this harmful pollutant into nitrogen and water. The system can work with today's fuel levels and offers a high conversion of NO_x without regeneration. This technology achieves a 10-30 percent conversion of particulate matter and 85 percent or more reduction of NO_x, while allowing the engine to operate with the lowest fuel consumption.



Natural Gas Treatment

For natural gas/diesel dual fuel applications, ArvinMeritor provides a system with a high performance oxidation catalyst and particulate filter. The catalyst ensures high conversion of methane under natural gas operation. The filter ensures particulate emissions are below Euro IV/V standards. The filter is passively and continuously regenerated by the presence of NO₂.



Thermal Regenerator

ArvinMeritor's Thermal Regenerator, an active diesel particulate filter regeneration system, eliminates harmful particulate matter, protecting operating effectiveness and maintaining peak engine performance. Automatically activated by an intelligent electronic controller, the system achieves an effective 650°C temperature at the filter inlet in less than 60 seconds, initiating particulate matter combustion. The Thermal Regenerator for medium- and heavy-duty applications is scalable and can be installed in several configurations to meet OEM packaging requirements.



Continuously Regenerating Filter Systems

ArvinMeritor is developing filter systems for removal of over 90% of particulate matter. Passive and continuous regeneration of the loaded soot on the filter, and reduction of CO and hydrocarbon emissions is achieved using an oxidation catalyst. The catalyst converts NO to NO₂ which oxides soot at low exhaust temperatures. In case of engines operating at very low temperature, supplemental heating can provide back up means to regenerate the filter.

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