

PRESS RELEASE

Purem by Eberspächer reduces nitrogen oxide in commercial vehicles

- **Compact Urea Processing Unit for commercial vehicles**
- **Efficient vaporization and high processing-performance of the urea-water solution**
- **Further reduction of emissions**

Esslingen, 15 September 2021 – **Future emissions standards have something in common all over the world: stricter limit values for emissions in passenger cars and commercial vehicles. With its new processing unit for commercial vehicles, Purem by Eberspächer is contributing to meet current and future emission limits. The compact unit enhances the processing of the urea-water solution in high-performance Diesel- and lean gas engines leading to a highly sufficient conversion of emissions.**

The upcoming European Euro 7 emission standard, the next generations of EPA, Bharat Stage VI and China 7 further reduce the limit values for emissions in passenger cars and commercial vehicles. To meet these standards, effective solutions are required. The **Compact Urea Processing Unit** from Purem by Eberspächer ensures optimal vaporization and processing of the urea-water solution.

Sophisticated design

With the new solution, the exhaust-technology specialists systematically expand their product family of urea-processing units for passenger cars and commercial vehicles. Continuous optimization of components and systems allows Purem by Eberspächer to offer a high-performance solution in the most compact installation spaces. With a diameter

of 7.5 to 13 inches, the unit can be installed in exhaust after-treatment systems of all commercial vehicles. The unit can also be adapted to individual specifications. The sophisticated design of the component ensures optimal vaporization and processing of the urea-water solution across the entire engine map, while minimizing risks of deposit formation.

Where operating conditions are unfavorable, e.g. low temperatures, urea deposits can be formed in the exhaust after-treatment system. The special geometry of the Purem by Eberspächer solution minimizes any risk of deposit build-up. Due to the design of the compact component it also provides a uniform swirl: The ammonia (NH₃) generated by processing the urea-water solution is distributed homogeneously in the exhaust-gas flow and reacts with the nitrogen oxide in the subsequent SCR catalytic converter to create harmless nitrogen and water. The high processing-performance and its optimum uniform distribution of the resulting ammonia in the mixing section lead to NO_x-conversion rates of 98 percent and above.

Availability

Purem by Eberspächer is offering the Compact Urea Processing Unit for series production from 2024. The unit can additionally be adapted to specific engine-, vehicle- and market-requirements in close collaboration with the customer to provide optimum efficiency of the exhaust purification system.

Caption:

The Compact Urea Processing Unit from Purem by Eberspächer ensures optimal vaporization and processing of the urea-water solution. This ensures NO_x-conversion rates of over 98 percent and minimizes deposits.

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About Purem by Eberspaecher

Purem by Eberspaecher is a subsidiary of the Esslingen-based Eberspaecher Group. To achieve clean and quiet mobility, around 7,000 employees develop and produce exhaust and acoustic systems for passenger cars, CVs, and off-road vehicles. The technologies make a significant contribution to meeting the strictest emission standards and noise guidelines. Its customer base includes the world's leading vehicle manufacturers. In 2020, the area within the group of companies generated revenue of around 4.4 billion euros.

About Eberspaecher:

With approximately 10,000 employees at 80 locations worldwide, the Eberspaecher Group is one of the automotive industry's leading system developers and suppliers. The family business, headquartered in Esslingen am Neckar, stands for innovative solutions in exhaust technology, automotive electronics and thermal management for a broad range of vehicle types. In combustion or hybrid engines and in e-mobility, the components and systems from Eberspaecher ensure greater comfort, higher safety and a clean environment. Eberspaecher is paving the way for future technologies - mobile and stationary fuel cell applications, synthetic fuels as well as the use of hydrogen as an energy carrier. In 2020, the Group generated revenue of more than 4.9 billion euros.