

PRESS RELEASE

Purem by Eberspaecher at hy-fcell 2024: A holistic approach to hydrogen

- **Modular exhaust air system for fuel cell systems**
- **Growing portfolio of Balance of Plant components**
- **Holistic development approach**

Esslingen / Stuttgart (Germany), 3 September 2024 – **With a growing product portfolio, Purem by Eberspaecher is tapping into the future market of hydrogen for industry and mobility. At hy-fcell in Stuttgart on October 8 and 9, the exhaust and acoustics specialist will be exhibiting its latest developments at the joint booth with VDMA at Booth 4F51 in Hall 4.**

With components and systems for mobile and stationary applications, Purem by Eberspaecher is tapping into new markets based on existing core competencies. The latest version of the portfolio can now be seen at hy-fcell 2024.

Water management and acoustic solutions for fuel cell systems

Effective water management is fundamental to the functionality of a fuel cell system. To ensure efficient operation of the stack and protect the compressor unit, for example, condensate must be separated in the anode and cathode path. This condensate is a by-product of the conversion of hydrogen and oxygen into electrical energy. The specially developed water separators from Purem by Eberspaecher are designed for high mass flows by safeguarding low back pressure and high separation efficiency.

Intake and exhaust air systems of fuel cell vehicles must guarantee compliance with applicable noise emissions in order to meet customer requirements. The silencers

developed for this purpose based on expertise from exhaust technology are designed for the special requirements of fuel cell systems and are resistant to high air humidity and water condensation.

All components can be combined on a customer-specific basis to create an efficient exhaust air system.

Efficient Balance of Plant components

Purem by Eberspaecher develops Balance of Plant components for fuel cell systems on the basis of valves used in exhaust technology. The [Gas Control Valve](#) is used to safely control air flows and pressure in order to optimize the whole system. This component can be used as a bypass or throttle valve and boasts a compact design. The [Cathode Isolation Valve](#) enables the cathode path to be hermetically sealed to protect it against leakage and therefore prevent premature aging. The product is designed for various applications thanks to the use of suitable materials and customer-specific connections.

Purem by Eberspaecher aims to take a comprehensive view of the topic of the future, hydrogen. In addition to its use, the generation of the energy source is therefore also an important target segment. [For example, the exhaust and acoustics specialist is driving forward the production of solid oxide electrolysis cells with initial development approaches](#) and continuously evaluating the associated customer requirements.

Caption:

- *The modular exhaust air system for fuel cell systems ensures efficient water management.*
- *The Cathode Isolation Valve from Purem by Eberspaecher hermetically seals the fuel cell stack.*
- *As a bypass or throttle valve, the Gas Control Valve ensures reliable regulation of mass flows.*

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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 7,500 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 2023, the area within the group of companies generated revenue of around 5.5 billion euros. Net revenue adjusted for transitory items amounted to 2.2 billion euros.

About Eberspaecher:

With approximately 11,200 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 such as mobile and stationary fuel cell applications, synthetic fuels as well as the use of hydrogen as an energy carrier. In 2023, the Group generated revenue of around 6.4 billion euros. Net revenue adjusted for transitory items amounted to 3.0 billion euros.