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PRESS RELEASE

bauma 2022: Intelligent electrical solutions for thermal management by Eberspaecher

- **Comfort and safety in construction machinery**
- **Electrical solutions meet sustainability industry trends**
- **Power independence thanks to intelligent energy management system**

Esslingen (Germany), 18 August 2022 – **"Construction of the future" is the driving force of bauma 2022, taking place from October 24 to 30 in Munich (Germany). With its electrical thermal management solutions, Eberspaecher secures that construction machinery, excavators or cranes are ready for operation no matter the outside temperatures. The comprehensive portfolio of heating and cooling systems for increased comfort and safety with a focus on electrical machinery is shown at bauma 2022, hall A4, stand 249.**

Enhanced productivity and efficiency as well as intelligent energy storage systems are key topics in the construction industry. As an expert for thermal management, Eberspaecher is a reliable partner for vehicle and cabin manufacturers.

Xellstor energy management systems for greater self-sufficiency

As an expansion of the well-known heating and cooling product portfolio, Eberspaecher has developed the **Xellstor energy management systems**. The modular system meets the growing demand for greater independence of external power supplies by providing autonomous solutions for a variant of different applications. Within the Eberspaecher e-connected app, the user can monitor the current battery status at all time. This marks a benefit for the demand of fleet management and also ensures an increased operational readiness. Especially when electricity is needed in mobile applications or environmental

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regulations prohibit fuel operated power generators, the Xellstor portfolio offers the right solution for an autonomous power supply. May it be in fleet service vehicles or workmen vehicles; more and more machinery rely on mobile, independent power supply in order to be more flexible carrying out repair, construction and maintenance work. Xellstor, the “workshop on the go”, is offering this flexibility and independence.

Concepts for sustainable battery thermal management

For the use in electrical construction machinery, Eberspaecher has been working on some new concepts. A vehicle specific heat pump for both, heating and cooling, will be part of the portfolio on show during the exhibition in Munich. Equipped with an external exchanger as well as PTC elements, the heat pump secures maximum comfort and security with efficient usage of the electric energy of the vehicle’s battery. All components are part of the Eberspaecher **Battery Thermal Management System BTMS.** The solution has been developed for the special needs of electric vehicles by combining thermal management solutions for both: the cabin and the drivetrain battery.

Electrical thermal management solutions

Eberspaecher offers a wide range of products for electrical thermal management. The **Falkon HVAC product family** provides several horizontal evaporator variants. Aside from a version for vehicles with combustion engines, there are two version for electrical applications: The fully electrical variant **EHVAC** provides 7.7 kW cooling performance and heating power from 3 to 6 kW and the hybrid **EHHVAC** (electric/hybrid HVAC) version includes a water heater, PTC elements and air conditioning for vehicles with hybrid or electric drive. Therefore, the interior is either heated with PTC elements and/or with the water from the battery thermal management. The PTCs provide a safe and powerful heating while the inherent self-control effect protects against overheating.
Besides the Falkon product family, the **VK9** product range offers the same flexibility for vertical mounting positions. Equipped with a powerful heating and cooling output, the available versions provide pleasant temperatures in the driver’s cab. The electrical version **VK9 EHVAC** comes with a cooling performance of 6.5 kW and PTC elements with heating performance of 3 kW.

Third generation of the Eberspaecher Airtronic

Apart from electrical solutions, Eberspaecher also exhibits its proven fuel operated air heater Airtronic. With the third generation, Eberspaecher is relaunching its previous air

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heater family and taking it to a new technical level. Across all performance classes (2 to 8 kW), the **Airtronic 3** offers state-of-the-art technology with combined with proven functions of the previous versions. Fuel operated air heaters provide the (pre)heating of the cabin to a comfortable temperature even when the engine is turned off, for example during break-times. For construction machinery, the Airtronic S3 Economy is the perfect fit. Fuel operated with Diesel, the heater has a voltage of 12 or 24 V and provides a heating performance from 0.85 to 2.2 kW. As gasoline version, the voltage is at 12 V with a heating performance of 1 to 2 kW.

Captions:

- *The modular Eberspaecher Xellstor energy management system consists of Power Unit(s) and Smart Hub.*
- *The Eberspaecher Falkon EHVAC provides comfortable heating and cooling in electrical construction machinery.*
- *With its vertical design, the Eberspaecher VK9 guarantees a perfect fit for various mounting needs.*
- *The Eberspaecher Airtronic 3 air heater convinces with state-of-the-art technology and an optimized consumption.*

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About Eberspaecher:
With approximately 10,600 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 2021, the Group generated revenue of around 6.0 billion euros. Net revenue adjusted for transitory items amounted to 2.3 billion euros.