

P R E S S R E L E A S E

Agritechnica 2023: Clean air and climate comfort in off-highway vehicles

- **Longer use of pollutant filters with K Protec Modular**
- **Falkon EHVAC cools and heats electric agricultural machinery**
- **Holistic thermal management for battery and internal space**

Esslingen / Hannover (Germany), 20 September, 2023 – **The agricultural sector is becoming increasingly exposed to environmental influences and technical innovations are taking on greater significance. Agritechnica will be taking place in Hanover from 12 to 18 November, with this year’s main theme being “Green Productivity”. In addition to solutions for comfortable temperatures in electric vehicles, Eberspaecher will be presenting a new product for clean cabin air, the K Protec Modular, at stand B27 in Hall 17.**

With the **K Protec Modular** cabin pressure system, driver safety always comes first. The overpressure that is created works together with a filter system to prevent pollutants and dust particles from entering the cabin. The modularity of the setup means that, for the first time for an off-the-shelf product, it is possible to switch between a category 4 filter for pollutants and a category 2 filter for dust at the push of a button, depending on the application case. For multifunctional agricultural machinery in particular, this extends the service life of the significantly more cost-intensive category 4 pollutant filters. Two 300 W blowers deliver maximum output, while integrated dampening elements reduce vibrations. The system is installed upstream of the air-conditioning and is therefore integrated into the usual cabin air conditioning. The filters’ vertical and horizontal installation options allow maximum flexibility during installation. The K Protec Modular bestows cabin certification according to DIN EN 15695. The product innovation is available at Agritechnica.

Comfortable conditioning in off-highway vehicles with electric drives

A comfortable environment in the driver's cab is necessary to ensure that farmers can concentrate on their work when outside temperatures are at extreme levels. As a thermal management specialist, Eberspaecher has a wide portfolio of air conditioning systems that cover all requirements and applications. Eberspaecher offers the majority of models as fully electric with the same dimensions. This significantly facilitates application development for battery electric vehicles with a similar setup to conventional drives. The Falkon product family, for example, includes evaporator versions for vehicles with combustion engines and three versions for electric drives. The fully electric **Falkon EHVAC** offers a cooling capacity of 7.7 kW and has a heat output of up to 6 kW. This allows the entire cabin to be air conditioned, not just a specific area.

Sustainable battery thermal management

The Eberspaecher **Battery Thermal Management System (BTMS)**, which has been developed to accommodate the particular needs of electric off-highway vehicles, combines thermal management solutions for both the driver's cab and the drive battery. The same air conditioning components for the driver's cab simultaneously cool the vehicle's drive battery via a combined circuit. In cold seasons, the additionally integrated Titronic CHHV 50 G3 high-voltage electric heater with PTC technology keeps the battery warm. With their inherent self-regulating effect, these high-power PTC constituents protect against overheating, enabling quick and safe heating.

Captions:

- *The K Protec Modular extends the service life of expensive pollutant filters.*
- *The Eberspaecher EHVAC Falkon version enables comfortable heating and cooling in electric agricultural machinery.*
- *The Eberspaecher Titronic CHHV 50 G3 heats the cabin, conditions the battery, or functions as a pre-heater for off-highway vehicles with hybrid or electric drives.*

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About Eberspaecher:

With approximately 10,700 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 2022, the Group generated revenue of around 6.4 billion euros. Net revenue adjusted for transitory items amounted to 2.7 billion euros.