

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

Eberspaecher at Prawaas 4.0: Thermal management solutions for all drive types

- **New AC135 product platform expanded to offer a heat pump variant**
- **Light weight and low consumption rates characterize the AC135 family**
- **AC332-345 for both standard and sleeper coach applications**

Esslingen (Germany) / Bangalore (India), 8 August, 2024 – At Prawaas 4.0 in Bangalore, India, Eberspaecher is presenting its portfolio of efficient thermal management systems for buses with all drive types. The focus at booth 65 to 74 in hall 4 will be on the AC135 from August 29 to 31. The system supplier is now expanding the versatile product family with two new variants featuring a heat pump and presents them to the public on site for the first time.

The Indian e-bus market is growing rapidly. With government-led initiatives, the country is driving forward the electrification of public transport with a focus on large cities. Eberspaecher has been responding to this trend for some time with the AC135 roof-mounted air conditioning system. With different variants, the thermal management expert offers a cost-effective and standardized platform for all bus types and performance classes, including electric drives. Now, Eberspaecher is adding two heat pump models to the AC135 family. The compact dimensions of 2.95 m in length and 29.5 cm in height are not the only convincing features. Their simplified refrigerant reverse cycle is even more reliable. In addition, it saves weight to only 202 kg in the lightest version. The **AC135 Heat Pump** models provide cooling capacities of 30 to 38 kW and heat between 22 and 26 kW via the heat pump, depending on the variant. Production will start Mid 2025

at the Eberspaecher plant in Bangalore. As one of the sponsors of the Prawaas 4.0, Eberspaecher is underlining the importance of the company's business in this market.

Greater efficiency through battery cooling

The AC135 all-electric versions with and without heat pump are all optionally available with an integrated module for battery cooling. This allows the temperature of the vehicle battery to be kept constant, resulting in greater efficiency and a longer battery life.

Integrating the battery module directly into the air conditioning system saves valuable space on the roof of the bus and reduces the overall weight of the vehicle. In addition, the electric thermal management system also has an integrated compressor and an inverter. With their modular approach, all AC135 versions share the same roof footprint. Without changing the design of their electric bus, this allows manufacturers to install a system with or without a heat pump for different climate regions.

A versatile product family for all drive types

Overall the AC135 platform convinces with its lightweight construction that offers lower consumption rates. It provides short installation times and a small roof footprint due to the reduced length, in its smallest version only 1.91 m. The parallel high one-piece design combines the advantages of a short parallel unit with side or center return air grilles for easy access and serviceability. Depending on the requirements, all variants of the product family are available with a brushed or brushless motor. The unit runs with a variety of controls, including the **E-Control** from Eberspaecher. For conventional drives five variants of the **AC135 Conventional** bring 25 to 50 kW of cooling performance. They feature four to eight blowers for passenger compartments of different sizes.

One unit for all coaches

In addition, the AC332-345 will be on display at Prawaas 4.0, as a cost-effective high-capacity inline unit for coaches with conventional drive. It provides 32 to 50 kW cooling performance for use in tropical and high ambient zones. With central or offset return air grilles, it fits onto both standard and sleeper coach applications, where the aisle is not situated in the middle of the vehicle. The development by the Indian Eberspaecher subsidiary for the local coach market is the third generation of a proven product series with improved reliability and well-known performance.

Captions:

- *With its simplified refrigerant circuit and low weight, the AC135 in its heat pump version is not only reliable, but also features low consumption rates.*
- *With its central or offset return air grilles, the AC332-345 fits onto both standard and sleeper coach applications.*

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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.