PRESS RELEASE

Eberspaecher at Busworld 2019: Environmentally friendly climate comfort for every requirement

- **AC 136 HP CO_2: Electric thermal management for hybrid and e-buses**
- **Airtronic L3 Commercial: Reliable warmth in mini- and midibuses**
- **Hydronic L3: Powerful pre-heater for large buses**

Esslingen / Brussels, 15 August 2019 – **Whether it's minus degrees or tropical heat, for Diesel powered mini- or electric city buses: In Hall 5 / Stand 535 at Busworld from 18 to 23 October 2019 in Brussels, Eberspaecher is presenting innovative solutions for comfortable cooling, heating and ventilation of buses whatever their size and drive type. With the air heater Aitronic L3 Commercial and the water heater Hydronic L3, the exhibition stand presents the latest product generations of the proven Eberspaecher pre-heaters. Another highlight is the first presentation of the electric thermal management system AC 136 HP CO_2 which ensures environmentally friendly climate comfort in hybrid and electric buses.**

With the new electric roof-mounted air-conditioning system **AC 136 HP CO_2**, Eberspaecher is introducing an environmentally friendly heating and cooling solution for hybrid and electric buses: The electrically driven thermal management system, that will be available from 2021, is specially designed to use the natural refrigerant carbon dioxide (CO_2). Particularly in the case of low ambient temperatures, CO_2 enables higher performance operation of the heat pump, compared to chemically manufactured refrigerant. In this way and thanks to its reversible refrigeration cycle, the installation offers optimal cooling and heating performance without needing additional energy from the bus. Eberspaecher is thereby extending the electrical range of city buses with hybrid or electric

Corporate Communications Eberspächer Group
Eberspächer Gruppe GmbH & Co. KG
Eberspächerstrasse 24
73730 Esslingen / GERMANY

Phone +49 711 939-0250
Telefax +49 711 939-0642
press@eberspaecher.com
www.eberspaecher.com

power and, at the same time, ensuring pleasant and emission-free climate comfort in every season.

The automotive supplier is presenting a roof-mounted air-conditioning system, especially designed for electric mini- and midibuses with its new Eberspaecher Kalori **RK 12 SH.** The new development with integrated electric compressor scores points with its very flat design and is available as air conditioning only, or also as a combined solution for heating and cooling.

Fuel operated and electric heating for buses of any size

With the **third generation Airtronic**, Eberspaecher will successively launch a completely new product family of air heaters for all vehicle segments. At Busworld, the climate experts from Esslingen are introducing as one of the first variants the **Airtronic L3 Commercial** Diesel version, which will be available from autumn 2020 and is suitable for use in mini- and midibuses, amongst others. It convinces with a full 6 kW heat output in a very small installation space, an even quieter operation and an integrated altitude sensor, which enables automatic adjustment of the burner operation up to an altitude of 5,500 meters.

In addition to the proven water heater **Hydronic M2** for mini- and midibuses, Eberspaechers fair presentation also shows the new **Hydronic L3** for large buses available from 2021: Thanks to a heat output from 16 to 35 kW, in comparison to its predecessor, this even more compact and even lighter water heater of the third product generation will be suitable for use in different climate zones. These new pre-heaters can be controlled with the permanently installed operating element **EasyStart Pro**.

For vehicle manufacturers, Eberspaecher is introducing a high-voltage coolant heater for small or medium sized hybrid or electric buses: With the compact **Titronic CHHV 50 G3**, they can be reliably electrically heated with PTC technology. By using PTC ceramics with their special physical characteristics, this technology, together with the electronics developed in-house, enables safe and powerful heating.

High-performance air conditioning of buses and coaches in hot countries

Bus air-conditioning systems have considerable challenges to meet, particularly in hot countries. The **AC 353** offers the necessary performance to constantly air-condition the

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passenger area of city buses and coaches, even at extremely high temperatures. It should come as no surprise that the leading airport bus manufacturer COBUS has been relying on the proven product family for years.

Captions:

- *Eberspaecher offers environmentally friendly climate comfort in hybrid and electric buses with the new AC 136 HP CO_2 electric thermal management system.*
- *With the compact Eberspaecher Titronic CHHV 50 G3, small or medium sized hybrid or electric buses can be reliably electrically heated with PTC technology.*

Global Media Contact:
Anja Kaufer
Head of Corporate Communications
Eberspächer Group
Phone: +49 711 939-0250
press@eberspaecher.com

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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. Eberspaecher components and systems provide more comfort, greater safety and a cleaner environment on or off the road. In 2018, the Group generated revenue of around 4.6 billion euros.