



## PRESS RELEASE

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### Systemized Climate Solutions

**Spheros presents integrated thermal management and celebrates the world premiere of the REVO®-E R290 at Busworld Europe**

At Busworld 2025 in Brussels, Spheros will showcase the next milestone in its holistic system approach to intelligent thermal management in bus air conditioning. Visit us in Hall 3, Booth 317. The highlight: the world premiere of the REVO®-E R290, an especially efficient, fully electric air conditioning unit using the eco-friendly refrigerant R290.

**The Spheros REVO®-E Family: ONE system. EVERY climate. ANY e-bus.**

With the REVO®-E series, Spheros offers a modular system comprising three fully electric rooftop air conditioning units – **REVO®-E R290, REVO®-E HP R744, and REVO®-E Global** – **designed to suit all types of buses and climate zones worldwide.**

Spheros is actively shaping the future of bus air conditioning by integrating natural refrigerants such as R290 and R744, while continuing to offer efficient solutions using conventional refrigerants. All product lines are **interface-compatible** and available in **various performance classes**. With the **REVO®-E R290** and **REVO®-E HP R744**, Spheros complies fully with the current **F-Gas Regulation** as well as upcoming **PFAS restrictions**, providing manufacturers and operators with maximum flexibility and long-term security.

**Eco-friendly, safe, global: REVO®-E R290 sets a new standard in bus air conditioning**

The **REVO®-E R290**, a fully electric and emission-free rooftop air conditioning system using natural refrigerant R290, is celebrating its world premiere.

This new product line is designed to meet the requirements of **all bus types and sizes** in **all climate regions** – even extremely hot environments. A range of **optional functions** can be integrated depending on requirements, including a heat pump, battery and component cooling, frontbox connection, and heat recovery. The system is fully **interface-compatible** with other Spheros models such as **REVO®-E Global** and **REVO®-E HP R744**.

The **REVO®-E R290** will go into series production in the fourth quarter of 2026 and is equipped with a **certified safety concept**. With this, Spheros sets new benchmarks in **sustainability, safety, and energy efficiency**.

### **A new solution for clean climate control: REVO®-E HP R744 – now also for coaches in moderate climates**

The **fully electric REVO®-E HP R744** has been using the natural refrigerant R744 exclusively since 2021. It was specifically developed for buses with alternative drives and provides **efficient climate control and high heat pump capacity** with **low energy consumption** – especially in **moderate climate zones**.

An optimized architecture and new components enable a **flat design**, making the **REVO®-E HP R744** an ideal climate control solution not only for **city buses**, but now also for **coaches**. The system can optionally be equipped with **integrated battery cooling** for enhanced functionality.

### **10 years of expertise: now bundled in the new REVO®-E Global (FGAS)**

The fully electric **REVO®-E Global** builds on nearly a decade of field experience in international bus markets. Now, the **second generation** of this product line is being launched, offering **20% higher efficiency and 10% more cooling capacity** compared to its predecessor – thanks to optimized components and intelligent system control. An optional **battery thermal management (BTM)** system can also be integrated.

Thanks to its **modular design** and a wide range of **additional features**, the **REVO®-E Global** is ideally suited for **global applications** and offers **tailored solutions for all bus types and climate zones**.

## Spheros E-Cooler BTM: All-in-one solution for maximum efficiency

Spheros has been a pioneer in battery cooling since 2014, when it introduced the original **E-Cooler** for hybrid and electric buses. Now, with the **E-Cooler 100 BTM**, Spheros presents a high-efficiency **battery thermal management system** with a cooling capacity of **10 kW**, suitable for a **wide range of vehicle applications**.

Equipped with **active and passive cooling**, a heating circuit, a central coolant pump, and all essential components, the **E-Cooler 100 BTM** is a compact, true **standalone solution** and is already available in series production.

### Captions:

- *Spheros' all-electric bus air conditioning series - REVO®-E Global, REVO®-E R290 and REVO®-E HP R744 - designed to suit all types of buses and climate zones worldwide*
- *Spheros E-Cooler 100 BTM : stand-alone solution with active and passive cooling for a wide range of vehicle applications*

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### About Spheros

Spheros is a global tech company and market leader in the development and manufacture of thermal management solutions for all city buses and coaches - both conventional and electric - as well as refrigerated transportation fleets. Established in 1956, the Spheros Group develops sustainable solutions that support the electrification of the global bus fleet, reducing emissions and fuel consumption. The product range includes air conditioning and heating systems, coolant pumps, battery cooling modules, roof hatches, refrigeration equipment, and other related hardware, as well as smart electronic control units.

The Company, with its headquarters in Gilching near Munich, has a global presence with operations in Europe, North America, South America, China, India, South Africa and Australia serving both OEMs and the aftermarket. The Spheros Group has a workforce of more than 1,100 people.

For more information, please visit [www.spheros.com](http://www.spheros.com)