

May 9, 2024

Sanden Corporation

Announced "Integrated Thermal Management System for Battery Electric Vehicles" in collaboration with Vitesco Technologies at the 45th Vienna International Motor Symposium

Sanden International (Europe) GmbH (SIE), a Group company, and Vitesco Technologies GmbH (Vitesco), a international supplier of modern drive technologies and electrification solutions, jointly presented "Integrated Thermal Management System for Battery Electric Vehicles (BEV)" at the 45th Vienna International Motor Symposium on "Integrated Thermal Management Systems for Battery Electric Vehicles (BEVs)" at the 45th Vienna International Motor Symposium. The presentation focuses on the key features of thermal management, such as extending driving range in cold weather, enabling fast charging, and providing thermal comfort in the cabin.

The 45th Vienna International Motor Symposium was held from April 24 to 26 under the main theme of "Greenhouse Gas Neutralization," with more than 25 countries participating to present the latest technologies and strategies.

SIE and Vitesco's Integrated Thermal Management System can flexibly provide various heating and cooling functions for the interior space, drivetrain, and battery, depending on customer needs, with reduced number of components. This integrated thermal management system consists of a compact refrigerant unit using the natural refrigerant propane (R290) and a thermal energy distribution system composed of a water distribution module using coolant (cooling water). This reduces complexity, ensures flexible adaptability, reduces labor in the vehicle manufacturing process, and ultimately helps automakers reduce system costs. In addition, the "indirect system" separates the refrigerant flowing in the cabin from the refrigerant in the front hood, enabling compliance with the PFAS regulations scheduled to be introduced in Europe in the future.

The symposium showcased systems based on customer requirements for C-class vehicles. Demonstrations showed the performance and benefits of the system based on relevant key simulation data and demonstrated the heating and cooling performance of the relevant components and the vehicle interior.

Based on our mid-term management plan SHIFT2028, we will continue to grow as a leading company in thermal management systems.

(Reference page)

[SANDEN - Automotive, Systems.](#)

[Vitesco Technologies - Home \(vitesco-technologies.com\)](#)

[International Vienna Motor Symposium \(wiener-motorensymposium.at\)](#)

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