

Spheros at busworld Kortrijk 2015 **Entelligence makes the distance**

Gilching, August 2015 At busworld in Kortrijk, Spheros will be exhibiting the most efficient air conditioning system currently on the market for hybrid and electric buses. It incorporates innovative air conditioning components, re-engineered software that intelligently regulates the HVAC components with the highest level of efficiency, and the “Spheros Body Interface” operating and control concept. This offers for the first time an interface for analysis values and system feedback. In addition to this there are further premieres to be celebrated at the trade fair: besides the REVO-E Global, a new aluminium front box and roof hatch generation, the first self-sufficient battery cooling from Spheros will be on display.

The main focus at the Spheros Rambla North/Stand R25 from 16–21 October will be on innovative HVAC solutions that contribute to making the best use of existing energy resources, thus significantly increasing the range of hybrid and electrobuses, true to the motto “Entelligence makes the distance”. What was introduced in the form of a concept study two years ago has been refined and already been implemented on a bus in 2015. For this purpose Spheros developed software that – depending on the ambient conditions (primarily temperature), battery status and geographical position – always selects the optimum Spheros components and deploys them with maximum efficiency. Information on the system status is mapped via the Spheros Body Interface.

REVO-E Global: fits everywhere

Of central importance in the overall system is the electrically driven “REVO-E Global” rooftop unit. The unit is being presented for the first time at the trade fair and complements the electrical air conditioning product range. Compared to the REVO-E, the Global version is geared to needs worldwide, particularly Asian markets. Special emphasis was placed on lightweight construction, extended output range and simple installation. Various heating functions such as an improved heat pump and a PTC heating are also available to the customer.

Optimum working conditions for the battery

The success of electromobility stands and falls with battery performance, which – like the passengers – needs a feel-good atmosphere. Optimum performance and service life of the battery cells are only achieved within a narrow temperature window, so that active cooling and heating is indispensable. For the first time at busworld, Spheros will be presenting battery cooling for hybrid and electrobuses which functions self-sufficiently besides the battery.

Flexible aluminium front box

Also unveiled for the first time at the trade fair: the new aluminium front box for air conditioning of the driver's section. Due to its modular concept, variable connections and a large number of potential applications it makes for significantly greater flexibility. Depending on the vehicle configuration, the unit can be installed either vertically or horizontally, and the air circulation unit can be adapted to suit the individual vehicle.

New roof hatch generation

A further trade fair highlight is a completely new roof hatch generation that was designed from the outset for the highest degree of modularity, at the same time satisfying future emergency exit size requirements according to ECE R107 R06. The hatch family with flexible exterior dimensions will be available in glass or plastic, with manual or electric operation, intelligent control concepts and other comfort elements.

About Spheros

For over 60 years the international Spheros Group has stood for climate comfort in buses. As a leading developer and manufacturer of heating and air conditioning systems, roof hatches and intelligent bus body electronics, Spheros is a partner to the international bus industry. From its company headquarters in Gilching near Munich, Spheros guarantees customer proximity and service on all five continents. The company group generated total sales of approx. € 200 million in the financial year 2014 and employs a workforce of 1,200.

Text and images for downloading at www.spheros.de -> Press

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