Webasto at the IAA Commercial Vehicles Show: New transport refrigeration systems and high-voltage heaters

Stockdorf/Munich – August 5, 2014 – At the IAA Commercial Vehicles Show in Hanover, Webasto is presenting a wide-ranging portfolio for light commercial vehicles and trucks under the slogan "Heating and cooling from a single source". The booth is located on Stand B22 in Hall 12 from September 25 to October 1, 2014. For the first time, Webasto will exhibit the new transport refrigeration systems, Frigo Top 25, 35, and 40, which ensure the reliable temperature-controlled transportation of perishable goods such as food, flowers and medicines. Another highlight is the High-Voltage Heater for light commercial vehicles. This heater was designed to be fitted as standard equipment to hybrid and electric vehicles to provide a warm interior.

The new Frigo Top: more efficient, quieter, more flexible
The new Frigo Top 25, 35, and 40 transport refrigeration systems are designed for vehicles with refrigerated cargo capacities up to 18 m³. These units are offered for roof-top or front mounting. Since the majority of components here are integrated in a compact system, they are very quick and simple to install. They also offer new attractive features compared to previous models. A new technology with integrated heat exchanger raises cooling capacity by over 30%, which means that the refrigerated vehicle is ready to deploy at even shorter notice. In addition, the systems are much quieter thanks to smart control and the new design of the condenser fans. It has furthermore been possible to more than double the overall service life of the fans. To prevent any interruption to the cold chain during long standstill times, a standby unit is fitted as standard. This can be connected to either a 230 V or to a 400 V power socket such as those frequently fitted in warehouses. The systems are available from the Webasto dealer network from October 2014.

Prepared for electromobility with the High-Voltage Heater
Not only automobiles, but also light commercial vehicles such as vans, are increasingly being offered as plug-in hybrid or pure electric vehicles. One challenge lies in keeping the interior of these vehicles warm, because their motors do not produce enough waste heat for heating. Webasto has therefore developed an electric heater for the hybrid and electric vehicle market: The High-Voltage Heater (HVH). The device has been designed so that it can be used at battery voltages in ranges from 250 to 450 V without any loss of performance. The conversion of the electric current into heat takes place with an efficiency of 100%. If we consider the losses due to radiation of heat through the High-Voltage Heater’s housing, efficiencies of up to 99% are still achieved. The heat output ranges from 0.2 up to 5 kW and is infinitely variable.

With a weight of some 2 kg the device is also very light and its compact design permits flexible installation positions. All connections are located on the front of the heater, so that quick and easy “plug-and-play” installation is possible. Multi-level safety measures are integrated to ensure the highest level of safety and robustness – even at high voltages. A key consideration during development of the heater was that it should contain no lead and only use easily
available raw materials. The newly developed heating layer therefore contains no rare earth elements.

We will happily arrange a press interview with you at the show. If you are interested, please contact Kristina Stuppi by email at kristina.stuppi@webasto.com or phone +49 89 8 57 94-686.

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About Webasto:
Webasto Group based in Stockdorf near Munich has been a family-owned business ever since the company was founded in 1901. The group operates internationally at over 50 locations (over 30 of these production sites) in the divisions roof and thermo systems. Webasto is one of the top 100 automotive suppliers worldwide. For 2013 the Group realized a sales volume of more than 2.5 Billion Euros and employs over 10,000 employees. The company’s core competencies encompass the development, production and sales of complete roof and convertible systems as well as heating, cooling and ventilation systems for passenger cars, commercial and special vehicles, recreational vehicles and boats. For more information please visit www.webasto-group.com

Press Contact:
Webasto Group
Petra Diederichs
Vice President Corporate Communications
Tel: +49 89 8 57 94-670
E-Mail: petra.diederichs@webasto.com

Kristina Stuppi
Product Communications Manager
Tel: +49 89 8 57 94-686
E-Mail: kristina.stuppi@webasto.com