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ECOOLTEC at Transpotec Logitec: focus on sustainable, cost-effective transport refrigeration

- **ECOOLTEC is showcasing its revolutionary transport refrigeration systems at the Transpotec Logitec trade fair in Milan**
- **Nivalis Energy Europe and L'idealcar in partnership with ECOOLTEC have developed a refrigerated trailer featuring an electric axle, a solar panel system and an electrically powered refrigeration unit, which is making its debut in Milan**
- **ECOOLTEC CEO Henning Altebäumer and Cosimo D'Alconzo, Sales Director Italy and Switzerland, present the regional sales and service network**

ECOOLTEC is showcasing its purely electrically driven transport refrigeration units at the Transpotec Logitec show. These units use exclusively natural refrigerants with an almost zero global warming potential to generate cold. Also making its debut at the trade fair is the Powered Trailer from Nivalis Energy Europe, a fully electrified refrigerated trailer featuring a generator axle, a photovoltaic system and an ECOOLTEC transport refrigeration unit. The body and chassis are supplied by the Italian vehicle manufacturer L'idealcar.

From 13 to 16 May, ECOOLTEC Grosskopf GmbH will be showcasing its innovative and exceptionally sustainable technology for the first time in Italy at the Transpotec Logitec show (Milan). In Hall 24, Stand K09, the company from Mülheim an der Ruhr (North Rhine-Westphalia) will be exhibiting the innovative, purely electrically driven TM182 transport refrigeration unit. It can be powered electrically via the truck's engine using an integrated high-performance alternator,

a battery-electric vehicle, a solar power charging system, the mains grid or a separate battery, and therefore requires no integrated diesel engine. The ECOOLTEC transport refrigeration system causes neither local pollutant nor CO_2 emissions when running on battery power, and up to 98 per cent fewer emissions when powered by an alternator.

Furthermore, it produces cold exclusively using natural refrigerants. Compared to the fluorinated refrigerants R452A and R410A, which have been predominantly used to date and have GWP (Global Warming Potential) values of over 2,000, these natural refrigerants have a virtually zero global warming potential.

Systems for single- and multi-temperature truck and trailer bodies

In addition, ECOOLTEC will also be showcasing the E1312 and E1221 flat evaporators at its exhibition stand. Whereas the E1312 model is suitable for multi-temperature units divided lengthwise by a partition in a one-to-two ratio, the single-discharge E1221 model is designed for units with a one-to-one longitudinal division or for use in combination with a transverse partition.

ECOOLTEC is also introducing its own remote control with a high-resolution graphic display and the high-performance G30 generator, which connects the transport refrigeration units to the trucks' engine. Thanks to the specially developed, extremely compact frequency converter, ECOOLTEC units can be combined with all truck powertrains – regardless of whether they are powered by diesel, compressed or liquefied natural gas, or electricity.

All-electric refrigerated semi-trailer with a low carbon footprint

A particular highlight of the show is the so-called Powered Trailer from Nivalis Energy Europe, formerly known as SolarEdge. This fully electrified refrigerated semi-trailer combines Nivalis Energy Europe’s expertise in photovoltaics and electromobility with ECOOLTEC’s sustainable transport refrigeration technology,

all integrated into a refrigerated semi-trailer manufactured by the Italian vehicle manufacturer L'idealcar.

The Powered Trailer is equipped with an electric axle that acts as a high capacity on-road charging system, enabling the trailer to recover kinetic energy as electrical power for example, through recuperation when braking. In addition, a photovoltaic system on the vehicle roof converts solar energy into electricity. The electrical energy from both sources is stored in a battery, allowing that electricity to be used to power the transport refrigeration unit. It is also possible to charge the battery via a land-based cable connected to a CEE socket, e. g. during the loading and unloading of goods. This significantly reduces the energy consumption of the transport refrigeration unit and thus also the operating costs of the trailer. A telematic system allows the unit's status to be monitored and energy generation and consumption savings to be analysed.

The display vehicle will be available for test drives after the trade fair

After the show, customers will be able to hire the e-trailer with its multi-temperature body for in-service evaluation. Nivalis Energy Europe will be exhibiting the Powered Trailer with the ECOOLTEC TM182 transport refrigeration unit at its own stand, directly opposite ECOOLTEC.

Furthermore, the ECOOLTEC trade fair team, led by CEO Henning Altebäumer and Cosimo D'Alconzo, Sales Director Italy and Switzerland, will be providing information on the development and expansion of the ECOOLTEC sales and service network in Italy. "Our revolutionary transport refrigeration systems, which are currently unique in the heavy commercial vehicle segment, demonstrate today that it is already possible to realise the entire cold chain without F-gases and therefore virtually zero transport refrigeration unit emissions. All fleet operators in Italy can now benefit from this offering, as we have just received the certification to market our mono- and multi-temperature systems here for the demanding distribution and long-haul transport", says ECOOLTEC CEO Henning Altebäumer.

With Officina Alberti, based in the province of Verona, ECOOLTEC has also gained a renowned commercial vehicle service partner that will cover the region of Northern Italy.

Caption:

Italian premiere: ECOOLTEC presents the TM182, a fully electric transport refrigeration unit.

Company profile
ECOOLTEC Grosskopf GmbH is a European manufacturer of future-oriented, environmentally friendly transport refrigeration systems. The mission of the company is to offer operators of refrigerated vehicles transport refrigeration systems which are particularly sustainable, efficient and reliable. Key features of the ECOOLTEC technology are the exclusive use of natural refrigerants with no global warming potential and the all-electric alternator or battery drive. The company headquarters and production site is in Mülheim a. d. Ruhr (North Rhine-Westphalia). CEO Henning Altebäumer and CTO Holger Dörre are responsible for the management of the company. ECOOLTEC also owns ECOOLTEC UK Ltd. which is located in Buckingham (Buckinghamshire), Managing Director is John Winter.

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