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Pioneer of climate-neutral delivery:

Transgourmet procures ECOOLTEC TM182

- **Transgourmet Germany has been supplying customers with operational sustainability in mind since 2022 and will now be utilising natural refrigerants to continue their journey to climate neutrality**
- **“As a pioneer in the use of sustainable technologies, we have made a conscious decision in favour of a new type of refrigeration system”: Sven Sauerwein, Head of Central Department Services, Transgourmet Germany**
- **“In light of the F-Gas Regulation, the switch to alternative refrigerants is unavoidable. ECOOLTEC has already made the transition": Henning Altebäumer, CEO ECOOLTEC**

ECOOLTEC has gained another well-known customer with Transgourmet Germany. The food wholesaler will now be using trucks with the TM182 transport refrigeration unit for its demanding distribution operations. The procurement is part of the company's ambitious sustainability strategy.

“Sustainability plays a central role in our company and in particular in our fleet. Our aim is to be the most sustainable company in the food wholesale segment”, says Sven Sauerwein, Head of Logistics Services at Transgourmet Germany. The delivery specialist for restaurants, community catering, retail and other businesses has been supplying its customers in the most effective climate-neutral way since October 2022. “We avoid unnecessary stops, rely on vehicles with alternative drives and compensate for CO_2 emissions that we cannot avoid. Our goal is to

reduce specific CO_2 emissions per tonne of delivered goods by at least 21 per cent by 2026 compared to 2021", he explains.

The innovative, electrically powered TM182 transport refrigeration unit from ECOOLTEC Grosskopf GmbH will now contribute to this ambitious goal, too. The exclusive use of the natural refrigerants CO_2 (R744) and propene (R1270) is unique in the heavy-duty commercial vehicle segment. They have a negligible global warming potential (GWP), compared to the fluorinated refrigerants R452A and R410A predominantly used in transport refrigeration with GWP_{100} values of approx. 2,000 (GWP calculated per 100 years on average). Furthermore, HFC-based refrigerants belong to so-called perpetual chemicals. When they are released into the atmosphere, they are also responsible for the formation of environmentally harmful substances such as perfluoroalkoxy polymers (PFAS). Thanks to the purely electric, locally almost emission- and CO_2-free drive, the system produces neither local pollutant nor CO_2 emissions when in battery operation, and up to 98 percent fewer emissions via alternator drive compared to diesel-powered refrigeration.

Use in distribution with an average of twelve stops per tour

Transgourmet sees itself as a pioneer in the use of innovative technologies. "That's why we deliberately opted for a new type of cooling system that uses only natural refrigerants and has an electric drive. We support manufacturers of sustainable technologies such as ECOOLTEC by integrating their systems into our commercial vehicles at an early stage. This enables us to provide them with valuable feedback on their systems under real operating conditions", explains Sven Sauerwein.

Transgourmet uses MAN TGM HGVs with bodies build by Brandt Kühlfahrzeugbau (Barntrup, North Rhine-Westphalia), with the ECOOLTEC TM182 transport refrigeration unit as well as the majority of its fleet in the demanding distribution. The company delivers on average to twelve customers per tour. This type of multiple drop operation sets high demands on the refrigeration technology, as the tail lift door of the body is opened at each of the twelve stops to unload the roll

containers with the goods. This causes cold air to escape and warm air to enter the body. The transport refrigeration system must ensure that the target temperatures are reached again without any delay to guarantee the quality of the fresh and frozen goods.

Sustainability in transport refrigeration offers great potential for CO_2 savings

“We are delighted that Transgourmet Germany, a leading food wholesaler, has decided in favour of the ECOOLTEC technology. This demonstrates the great interest in eco-friendly transport refrigeration. Many companies have now realised that sustainability is essential in transport refrigeration and that there is great potential for CO_2 savings. It is obvious that the use of F-gases and diesel-powered transport refrigeration units, which cause high local emissions and have a poor CO_2 footprint, is no longer up-to-date” says Henning Altebäumer, CEO of ECOOLTEC.

ECOOLTEC is currently the only manufacturer to offer a true sustainable solution: In light of the EU-wide F-Gas Regulation and the associated bans or shortages of conventional refrigerants, the industry is facing an unavoidable switch to sustainable alternatives. ECOOLTEC has already completed this transformation, enabling all fleets to achieve long-term operational reliability and a completely F-gas-free supply chain.

Further advantages: compact, powerful and highly efficient

ECOOLTEC refrigeration systems offer fleets even more significant advantages. For example, they have an enormous cooling capacity in relation to their size and weight. Highly efficient, natural refrigerants, the careful selection and design of the system components and the direct power connection of the system to an electric HGV or truck engine via ECOOLTEC's in-house alternator ensure high energy efficiency. As a result, the ECOOLTEC roof-mounted refrigeration system requires

60 to 80 per cent less energy than a conventional system for the same cooling capacity powered by a stand-alone diesel engine.

Caption:

Transgourmet Germany relies on the transport refrigeration system from ECOOLTEC. The trucks are used in demanding distribution transport operations.

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 greenhouse warming potential and the all-electric alternator or battery drive. The company's headquarter and production site is in Mülheim a. d. Ruhr (North Rhine-Westphalia). The management board consists of Henning Altebäumer, CEO, and Dr Jürgen Süß, CTO. ECOOLTEC also owns ECOOLTEC UK Ltd. which is located in Buckingham (Buckinghamshire), Managing Director is John Winter.

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