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Double Award Winner: ECOOLTEC wins European Transport Award for Sustainability

- **Expert jury honours ECOOLTEC TM182 transport refrigeration system in the category "Refrigeration and Heating"**
- **Jury praises holistic approach of refrigeration by using natural refrigerants, the purely electric drive and the efficiency of the unit**
- **ECOOLTEC CEO Henning Altebäumer: "The second award in a row confirms that ECOOLTEC's strategy is the right one."**

The trade magazine "Transport" has honoured the TM182 transport refrigeration machine from ECOOLTEC Grosskopf GmbH with the European Transport Award for Sustainability 2024 in the category "Refrigeration and Heating". The independent jury of experts rated the holistic approach and sustainability of the ECOOLTEC technology as outstanding. The combination of natural refrigerants for refrigeration and a purely electric drive is unique in road freight transport to date.

ECOOLTEC is a double award winner: With the European Transport Award for Sustainability 2024, the specialist for sustainable transport refrigeration systems has received its second award in a row for its revolutionary transport refrigeration system and its commitment to greater sustainability in temperature-controlled road freight transport. Only recently, the globally active environmental association ATMOsphere presented the ECOOLTEC TM182 with the ATMO Award "Innovation of the Year / Refrigeration". Now, the independent expert jury of the European Transport Award for Sustainability has honoured the unique and revolutionary technology in the heavy commercial vehicle segment. "The many really excellent entries in the category "Refrigeration and Heating" show us that the transformation

is in full swing here. What we particularly like about ECOOLTEC is the holistic approach, which is centred around the type of refrigerant, the design of the unit and the efficiency of the drive," explains Christine Harttmann, jury member and editor-in-chief of the trade magazine “Transport”.

"The fact that the TM182 transport refrigeration system has once again received an international award is impressive proof that the ECOOLTEC technology is the right way to make temperature-controlled road freight transport climate-friendly and that there is a demand for this particularly sustainable system in the transport and logistics industry," explains Henning Altebäumer, CEO of ECOOLTEC. He continues: "I am particularly pleased for the ECOOLTEC team, whose courage and commitment to the environment has once again been rewarded."

Conventional transport refrigeration systems constantly lose F-gases

ECOOLTEC only uses natural refrigerants for refrigeration. Instead of the fluorinated refrigerants (hydrofluorocarbons) R452A and R410A with GWP (Global Warming Potential) values of approx. 2,000, which are currently predominantly used in transport refrigeration, ECOOLTEC uses propene (R1270) and CO_2 (R744) with GWP values of 3 and 1 respectively. Due to the operating conditions and the typical non-hermetic system design, the leakage rates of conventional systems are particularly high. "The constantly escaping fluorinated refrigerants further increase the greenhouse effect. They are also criticised as PFAS (perfluorinated and polyfluorinated chemicals) and are responsible for the formation of environmentally harmful substances such as trifluoroacetic acid (TFA) and perfluoroalkoxy polymers (PFA) in the atmosphere. The European Transport Award for Sustainability recognises that we also need to take a new approach in transport refrigeration and use natural refrigerants," says Dr Jürgen Süß, CTO of ECOOLTEC. "We supply the commercial vehicle industry with the right transport refrigeration system for their electrically powered zero-emission trucks, whether with battery-electric drives or with fuel cells. By combining it with the ECOOLTEC

TM182, they can further optimise the CO2 footprint of the transport solution," explains Ingo Kaltwasser, Product Manager E-Mobility & Powertrain at ECOOLTEC.

In addition, the use of natural refrigerants guarantees the operational reliability of transport refrigeration systems in the future. The European F-Gas Regulation (EU) No. 517/2014 restricts the use of fluorinated refrigerants and in some cases even bans them. This in turn jeopardises the operational safety of refrigeration systems if refrigerants are no longer available for service. With the ECOOLTEC TM182, however, all operators of heavy refrigerated vehicles already have the option of realising an F-gas-free supply chain. Furthermore, the system produces no local pollutant and CO2 emissions in battery mode and up to 98 per cent fewer emissions compared to diesel-powered refrigeration systems if it is supplied with electricity via the in-house alternator.

Not only sustainable, but also economically efficient

The ECOOLTEC TM182 transport refrigeration unit utilises state-of-the-art technologies. As a result, the system is not only particularly sustainable, but also efficient, extremely powerful and quiet. When operating at the same cooling capacity, the system uses 60 to 80 per cent less energy than many conventional diesel-powered systems on the market. The high energy efficiency maximises the range of vehicles with zero-emission drivelines and at the same time offering customers enormous economic benefits thanks to the lower energy consumption.

This year, the trade magazine “Transport” published by Munich-based Huss Verlag awarded the European Transport Prize for Sustainability (ETPN) for the seventh time. The award is based on the vote of an expert jury. The panel is made up of well-known personalities from business, science, associations and the media with in depth knowledge of the commercial vehicle industry. According to the organiser, the award winners prove that responsible and sustainable action helps

to solve social and ecological problems, thereby also increasing the profitability and competitiveness of the companies.

caption:

Christine Harttmann, jury member and editor-in-chief of the trade magazine "Transport" and Rainer Langhammer (first from the right), managing director of Huss Verlag, presented the award to Henning Altebäumer, CEO of ECOOLTEC, and Dr Jürgen Süß (first from the left), CTO of ECOOLTEC, at a gala evening.

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