PRESS RELEASE - 05 OCTOBER 2023

Bierbichler buys ECOOLTEC refrigeration systems: "More technically advanced than any other"

- **Food wholesaler equips twelve trucks with ECOOLTEC transport refrigeration systems in 2023**
- **Refrigeration units perform reliably**
- **Drivers are thrilled with performance and running smoothness**

Ferdinand Bierbichler is one of the first companies to purchase the TM182 transport refrigeration machine made by ECOOLTEC. The food distribution company will equip twelve trucks with this innovative refrigeration system this year. Fleet manager Fritz Taucher is enthusiastic about the performance and the running smoothness of the ECOOLTEC technology.

Every afternoon, Ferdinand Bierbichler's fleet of trucks return to the yard and gather in front of the food wholesaler's ramps. Some of the vehicles stand out because their refrigerators run much quieter than those of the other vehicles. The trucks are also visually prominent because their transport refrigeration units are fully integrated into the body, whereas conventional models protrude above the roof of the truck cabin.

The technological highlights, however, are hidden inside the casing. The ECOOLTEC TM182 is powered purely electrically by the in-house alternator on the truck engine and produces up to 98 percent fewer emissions than diesel-powered refrigeration systems. It uses only the natural, hydrocarbon-based refrigerants CO_2 (R744) and propene (R1270) with ultra-low greenhouse warming potentials of 1 and 3 for refrigeration, while the widely used comparable systems' ability to operate is dependent on the refrigerants (hydrofluorocarbons) R452A and R410A with GWP values (Global Warming Potential) of up to 2,200, whose chemical properties in the

atmosphere are also responsible for the formation of environmentally harmful substances such as trifluoroacetic acid (TFA) and perfluoroalkoxy polymers (PFA).

ECOOLTEC transport refrigeration system performs reliably

This makes the innovative technology of ECOOLTEC Grosskopf GmbH from Mülheim a. d. Ruhr highly sustainable and fits with Ferdinand Bierbichler's corporate strategy: "We prioritise and understand the importance of sustainability and are constantly trying to improve. We will therefore continue to specify state of the art vehicle and transport refrigeration technology to help us to reach our goal of a practical and greener fleet," explains Fritz Taucher, fleet manager at Ferdinand Bierbichler. "We have chosen the transport refrigeration system from ECOOLTEC because it is very sustainable and environmentally friendly. The drive and refrigeration technology based on natural refrigerants is a unique combination in our vehicle sector," he explains.

Bierbichler put the first truck with an ECOOLTEC system into operation some time ago now. “The refrigeration system has been performing reliably. The system cools very efficiently and quickly reaches the set temperature. This is ideal for our operation with numerous unloading points, many door openings and high-quality, perishable cargo," reports Fritz Taucher. Ferdinand Bierbichler is a food wholesaler and full-range supplier. The company maintains a large product range of approximately 17,100 items. Bierbichler transports frozen goods as well as fresh produce, fish and dry goods. For distribution in regional transport, the company uses 15-tonne trucks with multi-temp refrigerated box bodies.

Drivers are thrilled by the quiet running of the ECOOLTEC TM182

But it is not only the fleet manager who is pleased with the advantages of the ECOOLTEC unit. Drivers also appreciate the quiet operation and high cooling capacity. "They are thrilled. The system runs very smoothly, which makes it

extremely quiet in the cabin. Our drivers confirm that it allows them to concentrate much better on the traffic."

Thanks to ECOOLTEC's transport refrigeration system, all operators of medium and heavy refrigerated vehicles can realise a truly F-gas-free supply chain. This offers them other advantages besides a dramatic reduction in their CO_2 footprint. Regulation does not restrict the use of natural refrigerants. Therefore, unlike F-Gas refrigerants, they are not affected by a ban or shortage, which can jeopardise the operational life expectancy of transport refrigeration systems if suitable refrigerants are no longer available for servicing or are subject to a significant increase in their purchase price.

Maximum operational life and economic efficiency are guaranteed

The hydrocarbons used by ECOOLTEC for refrigeration are also characterised by a high energy efficiency of the refrigeration process and thus enable transport refrigeration systems to benefit from both high performance and high economic efficiency.

Important to stress the ECOOLTEC design pays very close attention to maximum operational safety. The natural refrigerant R1270 used for refrigeration circulates in a fully hermetic circuit, and the refrigeration process takes place exclusively outside the cargo hold "in the open". In the box body, the natural refrigerant CO_2 also circulates in a fully hermetic circuit to ensure accurate temperature control.

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Ferdinand Bierbichler fleet manager Fritz Taucher is enthusiastic about the performance and the running smoothness of the ECOOLTEC transport refrigeration system.

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Bierbichler equips twelve trucks with ECOOLTEC transport refrigeration systems in 2023.

Link to the video:

www.ecooltec.com/bierbichler

Company's profile

ECOOLTEC Grosskopf GmbH is a European manufacturer of future-oriented, environmentally friendly transport refrigeration systems. The mission of the company from Mülheim a. d. Ruhr is to offer the refrigerated transport industry transport refrigeration units which are particularly sustainable, efficient and powerful. Key features of ECOOLTEC technology are the use of natural refrigerants with lowest greenhouse warming potentials and the all-electric alternator or battery drive.

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