



INNOVATION DRIVES YOU FORWARD

Press release

19/09/2022

CHEREAU TRAILER WITH SONOMOTORS SOLAR TECHNOLOGY ON THE DAIKIN STAND AT THE IAA FAIR

As you know since March, CHEREAU is not directly present at this 2022 edition of the IAA. However, you will be able to discover one of our semi-trailers on the Daikin stand Hall 27, stand C17.

Solar panels, even on the sides!

This vehicle is a concentrate of CHEREAU's know-how and presents the new Daikin electric refrigeration unit, as well as, for the first time in the world, SonoMotors solar panels integrated into a refrigerated semi-trailer with full coverage on the roof and partial coverage on both sides.

Equipped with 54 solar modules (58.9 m²) using the VaPV process (photovoltaic applied to the vehicle), this semi-trailer will provide the refrigeration unit with an additional power supply of up to 9.8 kW, which should make it possible to validate this configuration for many uses. The solar energy will be used to run the refrigeration unit by recharging the main battery. In addition, the panels will extend the cold autonomy of the 100% electric semi-trailers. This configuration will be mainly associated with an energy recovery axle.

The VIP super-insulation multiplies the benefits!

This semi-trailer also benefits from the VIP (Vacuum Insulated Panels) insulation of the CHEREAU Performance range. In a recent article, published in La Revue Générale du Froid, we have spoken jointly with CEMAFROID to highlight the merits of this technology applied to transport under controlled temperature.

At a time when we are all facing the dual problem of energy supply and global warming, VIP insulation allows, according to the tests carried out by CEMAFROID, up to 27% energy savings in the most favorable usage configuration (long distance, start-stop mode). These performances are of course useful to limit the fuel consumption of the diesel units and will limit the emissions, the fuel costs and the number of hours of operation of the refrigeration unit. This solution is even more interesting as our customers will switch to electric refrigeration systems. Indeed, VIP insulation will extend the vehicle's cooling autonomy and, of course, require less energy for the same level of performance. These are significant advantages.

CHEREAU is therefore accelerating the production of its CHEREAU Performance range with a first series of 50 VIP vehicles in 2023, primarily reserved for use with electric chillers, since this is where the solution brings the most benefits.

Hydrogen inside!

This IAA concept semi-trailer also demonstrates CHEREAU's know-how in hydrogen with the CHEREAU Hydrogen Power H2 system in its version 2, carrying 15.8 kg of hydrogen at 350 bars and designed to meet both intensive and long distance distribution activities. Two vehicles of this range will be put into service in Vannes in the next few weeks in order to continue testing this technology directly in operation at two of our customers. This launch will be the subject of a future press release.



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If you wish to meet us at the IAA, you can contact Christophe Danton, Marketing and Communication Director, to make an appointment on site on Wednesday 21 and Thursday 22 September (+33 6 72 91 91 77)

Please also feel free to visit the Daikin booth to discover our vehicle.

Finally, if you wish to have more pictures for illustration, please contact us.

CONTACT

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