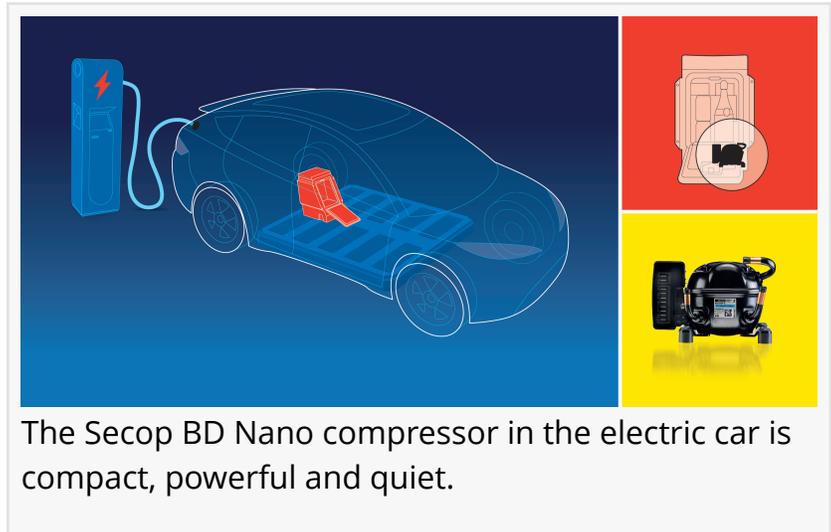


Secop's Compact and Efficient Compressor Meets Demand for New Trend in Electric Cars

FLENSBURG, GERMANY, March 26, 2024 /EINPresswire.com/ -- The demand for onboard refrigerators in cars is an increasing trend. Electric vehicles in particular are able to constantly supply a cooling unit with power to keep the temperature of chilled drinks and food stable. In response to automotive customers' constant search for greater comfort, onboard refrigerators will be available as a standard or optional feature in both top luxury brands as well as more mainstream models. The reliability and cooling performance of the fridge will heavily depend on the compressor. The [BD Nano](#) from [Secop](#) sets new standards where this is concerned. Its predecessor, the [BD Micro](#), is the current benchmark in the automotive market and is already used in premium car brand models equipped with a fridge. The BD Nano provides a solution that is smaller, quieter, and more powerful than the BD Micro.



The Secop BD Nano compressor in the electric car is compact, powerful and quiet.

Compact, Powerful, and Quiet

The compressor BDN45F-A from the new BD Nano series is optimized for R134a/R1234yf refrigerants and offers premium cooling performance in a compact size, high efficiency, and low noise and vibration.

The BD Nano is 3.66 inches high (93 mm) and weighs 3.3 lbs. (1.5 kilograms). The compact design maximizes the room for food and drinks and makes it ideal for small fridges. Its efficiency (COP) can reach up to 1.53 W/W [5.22 Btu/Wh] (ASHRAE LBP). This combination of features results in low energy consumption, extended battery life, and an optimized total cost of ownership.

At 58.7W [200 Btu/h] (ASHRAE LBP), the cooling capacity of the compact Nano continues to push the envelope. It means the temperature pull-down is fast to quickly cool the content of the fridge. Thanks to improved acoustic comfort for noise-sensitive applications, Secop was able to reduce sound levels by 6 dB/A compared to the BD Micro, the predecessor of the BD Nano and

current benchmark in the cars' cooling solution market segment. Another strength of the BD Nano is the reliability, since it features ISO16750 compliance for reduced knocking noise, vibration, and improved transport stability. With electromagnetic sensitive applications in mind, the Nano's controller also features low interference (EMI CISPR25 Level 5) designed for controlled emissions and immunity against external sources.

The BD Nano is controlled by a new-generation Electronic Controller Unit (ECU) and thus offers users a wide range of electronic interface functions. The ECU can be configured via an easy-to-deploy Modbus interface using industry-standard LIN hardware. The control unit is designed as a universal, easy-to-use, and feature-rich compressor controller, with increased functionality provided via Secop's free Tool4Cool software, an application that allows for even more customized programming.

Key features include a wide-range input for DC power supply, extended operating envelopes, full battery protection, integrated and configurable electronic thermostat functionality, variable speed control of the compressor, adjustable speed suppression to avoid cabinet resonances, and easy-to-optimize parameters to ensure a sustainable cooling source.

Designed by the German compressor specialists at Secop, the BD Nano compressor can be used in more than just passenger cars, it's also perfect in trucks, buses, recreational vehicles, and boats. The Nano is manufactured at Secop's plant in Tianjin, China. This state-of-the-art facility has been IATF16949 certified since December 2023 and complies with the strict standards of the automotive industry.

About Secop

Secop GmbH is a German company that has been producing hermetic compressors for cooling solutions in the commercial sector for more than 65 years and has been present in the automotive sector for 40 years, providing cooling solutions for trucks, cars, motorhomes, and boats. Today, Secop DC hermetic compressors can be found in the most luxurious car brands, for which a refrigerator is available for high-end customers.

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