

EU-Compliant Solution for the Food Retail and Catering Industry

Flensburg, November 15, 2021

Better cooling performance and lower energy consumption

In the wake of the impact of climate change and new EU energy regulations, the food retail and catering industries are looking for efficient and sustainable applications. The challenge is twofold: offering efficient compressors while optimizing performance by switching to sustainable refrigerants, and thus reduce energy consumption of electronic controlled compressors. Secop, an expert in advanced hermetic compressor technologies and commercial refrigeration solutions, achieves approx. 40% lower energy consumption versus standard solutions with its new SLVE18CN electronically controlled compressor with hydrocarbon refrigerant.

New regulations in Europe, including the F-Gas Regulation and Ecodesign, which initiate the transition to low GWP refrigerants and better system efficiency, are driving the development of a more efficient and green light commercial refrigeration market. Secop optimized a vertical multideck cabinet with a net volume of 1,062 liters for food retail in MBP application at a working temperature of +2 degrees Celsius with its new SLVE18CN that provide the following benefits.

There are two major environmental benefits using the new SLVE18CN compressor. In general, the use of hydrocarbon R290 as refrigerant offers an ozone depletion potential of zero as well as a negligible global warming potential. Compared to R404A, it can reduce the refrigerant charge by up to -63% and the refrigerant cost by up to -80%.

The new SLVE18CN offers as well benefits to users. The electronic controlled SLVE18CN can achieve the same cooling capacity as a 27.88cc fixed-speed drive compressor that improves logistic cost with 21% savings on space and 23% savings on weight. Compared to the R404A FSD, it provides more than 40% reduction in energy consumption. The Return of Investment (ROI) is less than 2 months. Electronics controller could provide more accurate temperature control to secure food and drink safety. Furthermore, the cabinet lifetime and reliability are longer, while the maintenance is easier. With the SLVE18CN, Secop achieves a better noise reduction.

[Learn more](#) about the Secop SLVE18CN compressor.



About Secop:

Secop is the expert for advanced hermetic compressor technologies and cooling solutions in commercial refrigeration. We develop high performance stationary and mobile cooling solutions for leading international commercial refrigeration manufacturers and are the first choice when it comes to leading hermetic compressors and electronic controls for refrigeration solutions for light commercial and DC-powered applications.

The group has 1,350 employees worldwide with production sites in Slovakia and China as well as research centers in Germany, Austria, Slovakia, China, and the USA including a dedicated motor competence center (MCC) in Germany to support the development of electronics and motor controls.

Secop has belonged to the ESSVP IV fund since September 2019.