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SOGEVAC SV55/70 BI² from LEYBOLD – the two new roughing pumps for analytical applications

Intelligent, quiet and low-maintenance

Cologne, June 2025 – Leybold has launched two new versions of its renowned oil-sealed rotary vane pumps for analytical applications. The new developments are characterized by their high pumping speed, low noise level and maintenance intervals of up to 24,000 hours in LC or GC MS applications (Liquid or Gas Chromatography-Mass Spectrometry). The SV BI² sets new Standards in sustainability, compactness, reliability and ease of use.

Precise performance, maximum operating time

Equipped with an integrated frequency converter, the SOGEVAC BI² also has flexible speed control. This allows the rotary vane pumps to be easily adapted to the respective process requirements. LEYBOLD synthetic oils allow maintenance free operation up to 3 years / 24'000 hours in LC or GC MS.

Up to 38 percent less power consumption

"With the help of power consumption monitoring, users also have a real-time overview of the power consumption and pump temperature at all times," says the responsible Product Manager Laurent Furrer, explaining the user-friendly features. Thanks to the lower generator speeds, quiet operation can be guaranteed across the entire pressure range of the SOGEVAC BI². "The bottom line is that the new backing pumps consume up to 38 percent less electricity on average. CO₂ emissions are also noticeably reduced," adds Furrer.

Compact design thanks to integrated permanent magnet motor

The SOGEVAC BI² offers more installation space thanks to its compact design. "In terms of design, we have also achieved this by integrating the permanent magnet motor and redesigning the oil casing. The pump volume & weight are almost divided by 2!" reports Laurent Furrer Product Manager.

Intelligent and sustainable packaging increase ease of use and user safety

Positive for transport and commissioning: The packaging made of recyclable, biodegradable material has shock indicators for optimum pump protection. A hinged unloading ramp enables easy and safe unpacking. Thanks to the mobile design and the handles on the oil casing cover, the new SOGEVAC BI² can be transported and installed easily and safely. No need lifting of the pump what avoids potential health & safety risks for the users.

Important advantages of the SOGEVAC BI² at a glance:

- Significant cost of ownership and CO₂ reduction for Laboratory operation
- Up to 38 percent less power consumption
- Up to 46 percent lighter
- Quieter operation
- Very compact size, pump mobility, more flexibility
- Integrated frequency converter, very low inrush current
- Up to three years/24,000 hours of maintenance-free operation on LC or GC MS.



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About Leybold

Established in 1850, Leybold is a pioneer in vacuum innovation. Our inventions have paved the way for many modern-day vacuum technologies, including our range of next-generation vacuum products. We are recognized globally as a leader in the manufacture of vacuum pumps and systems for industrial and scientific vacuum applications, that are supported by our specialized and globally accessible Service solutions.

We are proud to live up to our brand promise - Pioneering products. Passionately applied.

Founded in Cologne, Germany with sales and service locations around the globe. We are a part of the Atlas Copco Group. For more information, visit leybold.com.