

Kaeser screw blowers

Exceptional efficiency: EBS and FBS blowers

Remarkably quiet, yet highly efficient: energy-saving screw blowers for the low pressure range are now available in two sizes. In addition, the integrated Sigma Control 2 controller ensures optimum performance at all times, and helps provide a dependable supply of quality compressed air that is also compatible with the future-oriented 'Industry 4.0' philosophy.

The EBS series covers a free air delivery range from 10 to 38 m³/min with a differential pressure up to 1.1 bar, whilst the new larger FBS screw blowers are perfect for applications requiring free air deliveries up to 67 m³/min.

Kaeser's new EBS and FBS series screw blowers prove that the tried and trusted technology which already powers Kaeser's compressor ranges to deliver significant energy savings can also be successfully applied to the low pressure range. The new Kaeser screw blowers are up to 35 percent more efficient compared to conventional rotary blowers, yet they also outclass other comparable screw and turbo blowers through their significant energy advantages. After all, Kaeser's motto of "More air, more savings" applies to all of the company's products, not just compressors.

The rotors are uncoated so users can rest assured that their outstanding efficiency remains intact even after years of use. The data provided for the effective total energy consumption and usable flow capacity correspond precisely to the machines' actual performance (as per the conservative tolerances provided for by Standard ISO

1217; measurements validated by TÜV-Süd). This ensures full transparency, since the planned savings calculated to result from the capital investment are actually achieved.

Continuous monitoring for optimal performance

The integrated Sigma Control 2 controller provides continuous and comprehensive monitoring, and allows straightforward connection of each machine to communications networks.

At the next level, the Sigma Air Manager (SAM) master controller is available for complete blower stations and features further refined software specialised for blower operations. This delivers enhanced productivity and energy savings, while also enabling use within the context of Industry 4.0. Sectors such as the food and beverage, pharmaceutical, chemical, pulp and paper, textile and construction materials industries, and applications such as wastewater treatment, pneumatic conveying systems and power generation, can all benefit from this innovative screw blower technology.

Excellent durability and reliability

Of course the screw blowers – which are Made in Germany – also possess the other outstanding qualities that Kaeser products are renowned for. The new screw blowers feature an internal cooling system that makes the energy-intensive use of oil pumps and oil coolers superfluous. Furthermore, they feature a highly effective sealing concept that ensures long-term seal integrity, without the need for vacuum pumps. The durability and reliability of the machines is also enhanced as a result of eliminating the need for auxiliary equipment and circulating oil lubrication. Cooling and process air are drawn in separately from outside the machine enclosure, which not only provides greater usable air mass flow for the same power consumption, but also ensures optimum cooling and efficiency. Moreover, the blowers are easy to install, are designed for dependable continuous operation and are exceptionally durable. Last but not least, clever component layout allows the units to be installed directly next to a wall, or side-by-side, and also makes maintenance a breeze.



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Images:



Image caption:

FBS: Kaeser's innovative and energy-efficient EBS and FBS screw blowers provide an effective and dependable supply of quality compressed air for the low pressure range.



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