



### FBS-Screw blower

Pure efficiency is offered by the FBS screw blower from KAESER and represents another milestone in the field of oil-free compressed blowers. The units are used in the water management sector.

### Efficiency at the touch of a button

With a volume flow of 18 to 72 m<sup>3</sup>/min and pressure differences of 0.3 to 1.1 bar as well as motorisations of 45 to 110 kW, the innovative FBS sets new standards in terms of energy efficiency, low spare requirements and automation. A success story that continues the path of the next smallest EBS.



KAESER FBS Screw blower  
Picture source: KAESER Kompressoren SE

# FBS Screw blowers

## Synchronous reluctance motor for pure efficiency

An integrated frequency converter and a synchronous reluctance motor equip the SFC version. As a slip-free motor, this unit combines the advantages of highly efficient permanent magnet and robust service-friendly asynchronous motors. The volume flow is adapted to the demand by the variable speed and thus a control range of 1:4 is achieved. This can be run through very dynamically. The STC version is even more efficient. An energy-saving IE4 super-premium efficiency motor significantly reduces energy consumption and thus energy costs.



Power transmission from the motor to the compressor with loss-free and maintenance-free gearing is common to both versions. However, compared to the predecessor model, the units have an improved specific output of up to 7 percent. This means that the complete machine achieves an efficiency range that represents a top value in this machine segment. KAESER thus guarantees performance values within the narrow tolerance of ISO 1217-C/E, which are predicted and actually occur in reality.

The volume flow of the units is almost unaffected by pressure fluctuations over the entire wide control range. The efficiency is uniform over the control range. This guarantees that the fans can be controlled and regulated very well from the control system at any time. This results in savings and significantly less effort for the integration of the control technology.

Despite the compact dimensions of the FBS, maintenance access from the side could be dispensed with. Therefore, it is also possible to install the units side by side. This results in a significant reduction in the space required for several units.

The FBS screw blowers are ready for immediate use, as they are supplied with a complete control system and frequency converter or star-delta starter. The units carry CE and EMC markings. Planning, construction, certification, documentation and commissioning costs for planners, operators and plant constructors are thus considerably minimised. Low-noise operation is ensured by extremely effective sound and pulsation insulation.



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Picture source: KAESER Kompressoren SE

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