



At the forefront of purity and efficiency

Pharmaceutical, food, medical and chemical industries - these sectors place particularly high demands on compressed air quality. If you want to meet these compressed air requirements economically, the oil-free screw compressors of the CSG series from KAESER are the right choice. These new models are particularly efficient and require less space.

The CSG series enables highly efficient compressed air generation while requiring 19 percent less floor space than the previous series. The models are available air- or water-cooled, with integrated refrigeration dryer or i.HOC (Heat of Compression dryer) and for volume flows from 4 to 15 m³/min. Speed-controlled SFC versions are available for applications with fluctuating compressed air requirements.



Screw compressor type CSG
Picture source: KAESER Kompressoren SE

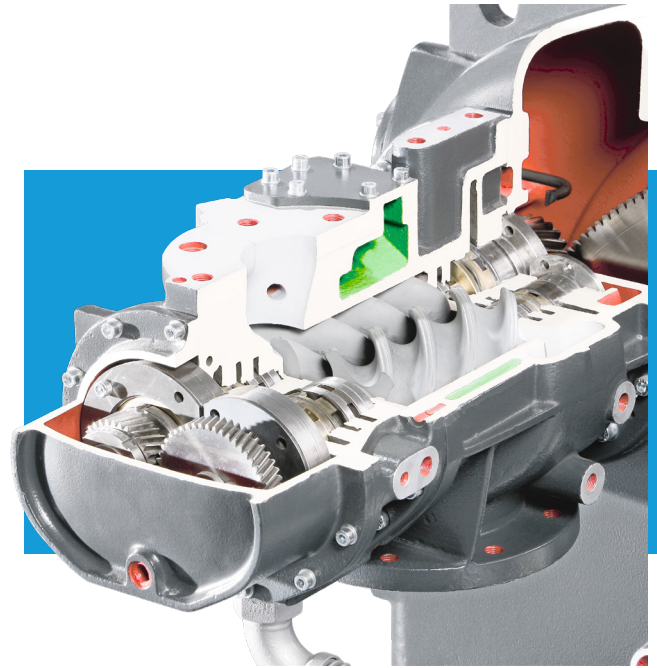
Screw compressor CSG-series

A model student in its class

KAESER is known for its high-quality, durable compressor blocks with the efficient Sigma profile. These are now also installed in the CSG series. The rotors have a coating that is particularly resistant to wear and temperature. This ensures lasting efficiency. In addition, the innovative PEEK coating is excellently adapted to the requirements for food contact materials in Europe.

In terms of energy efficiency, the new CSG is a model student in its class. KAESER has uncompromisingly focused on efficiency in the development of the drive, cooling and compression systems.

The series is therefore equipped with IE5 (ultra premium efficiency) synchronous reluctance motors and features highly effective water jacket cooling on both compressor stages in both air-cooled and water-cooled units. The CSG's fiber-free pulsation dampers act over a wide band and with very low pressure drop. These and other optimization measures have significantly improved the energy efficiency of the compressor and thus significantly reduced energy consumption. For example, the CSG series delivers **16 percent more volumetric flow** with the same rated motor power, and **the maximum operating pressure has been increased from 10 to 11 bar**.



Cutaway model CSG series
Picture source: KAESER Kompressoren SE

Compressor waste heat easily utilized

In order to reduce the CO₂ footprint to a maximum, KAESER offers the **integrated i.HOCH adsorption dryer** for air- and water-cooled systems. It cleverly uses the compressor waste heat to regenerate the desiccant with minimal energy input, safely and stably achieving oil-free compressed air with a pressure dew point down to minus 30 degrees C even under difficult ambient conditions.

For water-cooled models, KAESER relies on innovative integrated heat recovery options that can be easily adapted to the customer's requirements.

The **Sigma Control 2 integrated compressor controller** not only controls the reliable and energy-efficient operation of the compressor, but also enables connection to a higher-level compressed air management system. In addition, it monitors bearing and winding temperatures of the drive motor as well as vibrations in the compressor as standard.

KAESER screw compressors are extremely durable and can provide many decades of service in a plant. Should they ever need to be replaced, most of the materials they are made of are recyclable. When it comes to compressed air supply, KAESER is a plus in terms of the environment and nature.



View inside the CSG series
Picture source: KAESER Kompressoren SE

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