

More air, more savings...

KAESER SIGMA PROFILE

Developed by KAESER and continuously enhanced ever since, the KAESER SIGMA PROFILE achieves power savings of up to 15 percent compared with conventional screw airend rotor profiles.

All KAESER rotary screw airends feature this energy-saving rotor profile and are designed to ensure maximum energy efficiency.

The generously-sized, precision-aligned roller bearings and close-tolerance machining guarantee long service life and outstanding reliability.



Energy-saving compressor airend with SIGMA PROFILE rotors

A specific drive power can be used to turn a smaller airend at high speed or a larger airend at slow speed. Larger, slower running airends are more efficient and deliver more compressed air for the same drive power.

This is why KAESER builds airends with the slowest drive speeds possible

and optimised screw profiles. Every KAESER rotary screw compressor equipped with one of these highly efficient airends quickly pays for itself through power cost savings.

Energy saving controllers: SIGMA CONTROL 2 and SIGMA CONTROL BASIC



The SIGMA CONTROL 2 features a highly flexible modular design, yet its standard construction means that this versatile control system can be matched to suit the needs of any rotary screw compressor from KAESER KOMPRESSOREN's extensive range. Comprising a main control unit and separate input/output modules, this modular concept therefore enhances communication and user-friendliness.

Internet capability

The SIGMA CONTROL 2 is equipped with its own web server, making it possible to communicate with the compressor via intranet/Internet. There is no need for additional costly software, as settings can be remotely accessed and adjusted, with password protection, from any PC running a standard Internet browser. This feature greatly simplifies operation and maintenance for example.

Lower life-cycle costs

Energy costs taken over the lifetime of any compressor add up to many times that of the initial capital cost, which can make any purchase price difference a false economy. Efficiency and reliability are vital in the production of compressed air and KAESER achieves these objectives with quality, durable components that are built to last. Energy-saving KAESER rotary screw compressors can help users to significantly reduce their compressed air costs.

Save additional costs and benefit the environment with heat recovery:

Reusable heat generated during compressed air production represents a considerable potential saving, since 100 percent of the energy fed to a compressor is converted into heat. This is energy that can be utilised. In fact, up to 94 % of the energy that is used to produce compressed air remains available for reuse. This not only enables huge annual financial savings, but also helps to considerably reduce CO₂ emissions. The scale of the savings effect depends on the size of the compressors and the primary energy source that is used (electricity, gas, fuel oil). Moreover, many older compressor models can even be retrofitted to provide heat recovery.

