


SE/SEF/SPF -2S Series 2-Stage Screw Compressors

111⁺
YEARS



Family-made  since 1907

Up to 15% less compression energy

An efficient and reliable Air compressor will save you a lot of money, not just once, but Day after day or rather year after year, it ensures minimal downtime for maintenance and longer intervals between inspections.



Oil separation system

Vertical large-size oil separation system, two-stage oil and gas separation, long service life and low outlet oil content.

Intake control valve

Large diameter, low pressure loss, unique pneumatic control design, the flow rate can be adjusted in real time according to the air consumption.

2-stage compression aircend

Premium quality bearings with high reliability, efficiency and long service life, and can meet the requirements of continuous operation under harsh working conditions, with significant energy-saving effects.

Direct drive

Maintenance-free flexible coupling, high efficiency.



Inlet filter

Large size and heavy-duty design to effectively remove impurities.

Cooling system

Air cooling/water cooling optional, large size design, low outlet temperature.

High quality electric control box

IP55 switch cabinet with Well-known brand components for safe and reliable operation

Main motor

IE3 High efficiency and energy saving main motor for fix speed compressors, and IE5 permanent magnet Motors on frequency drive models

SE series micro processor controller is easier to operate and more reliable.

SE-2S series is a pioneer in energy conservation and emission reduction, allowing you to benefit from advanced technology.

SE Display Panel

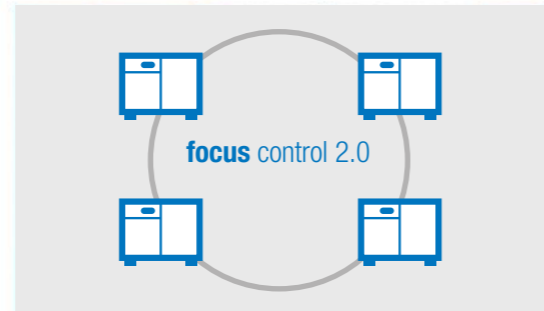
Touch screen interface in Chinese or English languages, simpler operation. Flexible control mode, precise and reliable control of components, providing more accurate and safe control of the compressor.

Optional: BOGE well-know Focus 2.0 microprocessor controller-



BOGE focus control 2.0

An intelligent control concept underlies the formidable improvement in efficiency of this series. The modular focus control 2.0 is state of the art, because it allows you to have simply everything under control – with the emphasis on “simply”: this higher level control, which also serves as a network control for up to four compressors, makes compressed air generation more efficient and reliable.



Intelligent cooling unit control

The fan designed with optimal blade shape for large air volume and low wind speed greatly reducing the noise of the unit. The start and stop of the cooling fan is controlled by the exhaust temperature of the compressor unit to achieve the purpose of energy saving and noise reduction.



maintenance

Easy maintenance with genuine BOGE spare parts. The easy access to maintenance components makes it easy to attend to regular maintenance with ease.



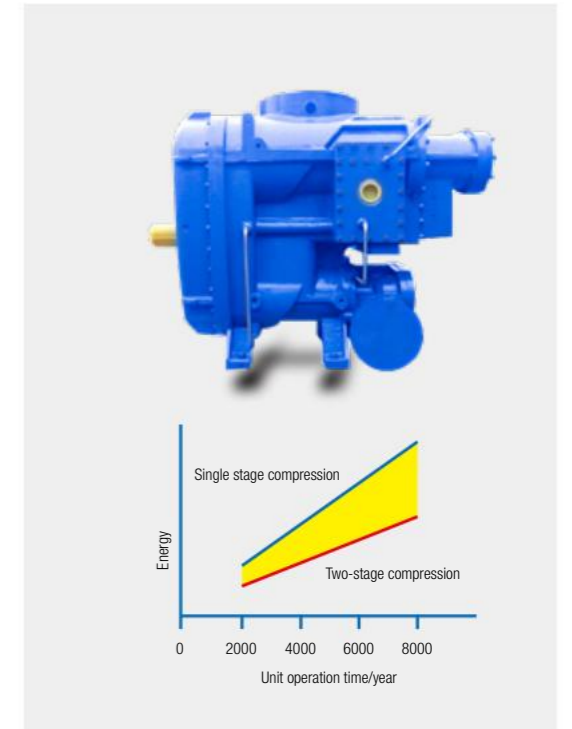
High efficiency and energy-saving two-stage airend

BOGE two-stage screw compressor is a high-efficiency compressor that achieves the best compression efficiency by dividing the compression process into two compression processes.

The first stage compresses the ambient air to an intermediate pressure, which is used as the inlet pressure for the second stage compression. The second stage further compresses and raises the pressure to the required outlet pressure. In this process, the compression heat generated by the first stage compression is taken away by the cold lubricating oil, and the remaining compression heat is further cooled by the injected coolant entering the second stage airend, which reduces the temperature of the compressed air and greatly saves the energy required for compression.

The entire compression process is closer to isothermal compression, and compared with single-stage compression, it can achieve energy savings of up to 15%.

The rotor undergoes 20 processes of fine machining to ensure the accuracy, reliability and effectiveness of the rotor profile.



Reduce the load on the airend bearings

Two-stage compression reduces the compression ratio, thereby reducing the load on the bearings and extending the life of the airend. We choose the best quality heavy-duty bearings to ensure the efficiency and reliability of the compressor.



Interstage cooling

The key point for the high efficiency of two-stage compression is the design of interstage cooling. The interstage cooling system automatically atomizes the coolant and injects the coolant to the air after the first stage compression, the oil quickly absorbing the heat generated by the first stage compression process, ensuring that the compressed air is fully cooled before entering the second stage for compression, greatly saving the energy required for compression, and the design of injecting atomized coolant can eliminate the cost of an intercooler.





Best
Of
German
Engineering

Customers in more than 120 countries worldwide trust the BOGE brand. Already in its fourth generation, this family-run company directs all its experience into developing innovative solutions and exceptionally efficient products for the compressed air industry.



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