BOGE AIR. THE AIR TO WORK.

BOGE S-4 series

Designed to take the lead

Made in Germany since 1907

Innovative down to the smallest detail. Available from 37 to 160 kW

Designed as a driving force for industrial progress: BOGE's S-4 series represents a significant breakthrough in terms of energy consumption, noise emissions and ease of maintenance. Whether 37 or 160 kW – all S-4 models have a premium airend (IntegrateDrive) developed in-house, which is designed for maximum efficiency and virtually maintenance-free operation.

Innovative separation technology

Designed for optimal oil separation, low residual oil content and a long service life of up to 9000 operating hours as well as safe, convenient cartridge replacement.

Logical easy-access principle

Whether oil or air cooler – both can be removed via a side service door for easy, convenient maintenance and cleaning.

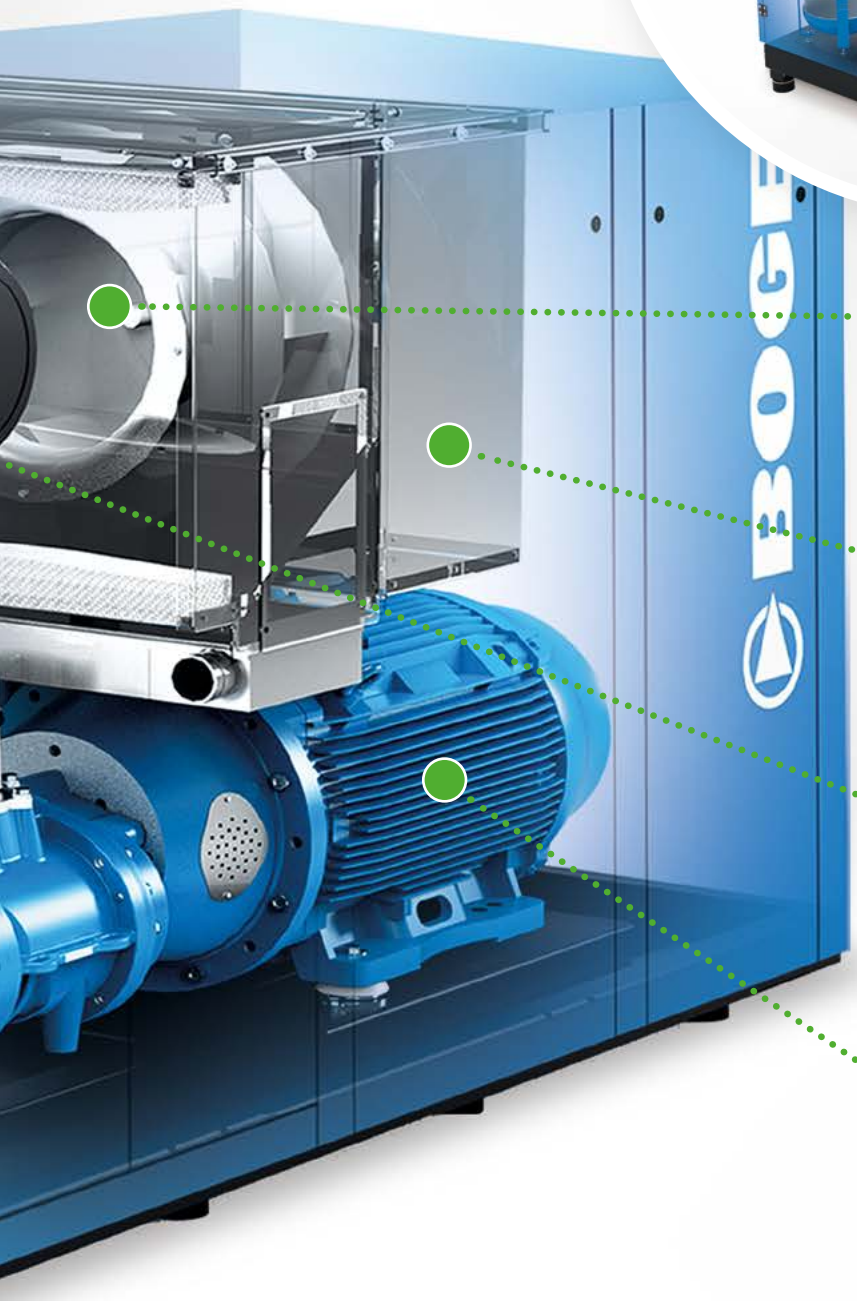
Optimised airend

Thanks to their optimal peripheral speed and advanced rotor profile design BOGE airends deliver the highest levels of efficiency – either for direct drive (with optional speed control) or with integrateDrive.

Elastic "SilentMount" isolation mounts

The drive motor, airend and to some extent the oil separation tank are secured to the base frame with elastic mountings to ensure vibration isolation and lower noise levels.

The “small”
37-75 kW S-4
with improved BOGE airend.



Low-speed radial fan

The extremely quiet and slow radial fan offers enough pressure reserves for the connection of a short exhaust duct piece.

Sound-optimised cooling air duct

The large cooling air duct is multi-directional to keep the sound pressure level generated by the drive and the airend to a minimum.

Effective intake filter

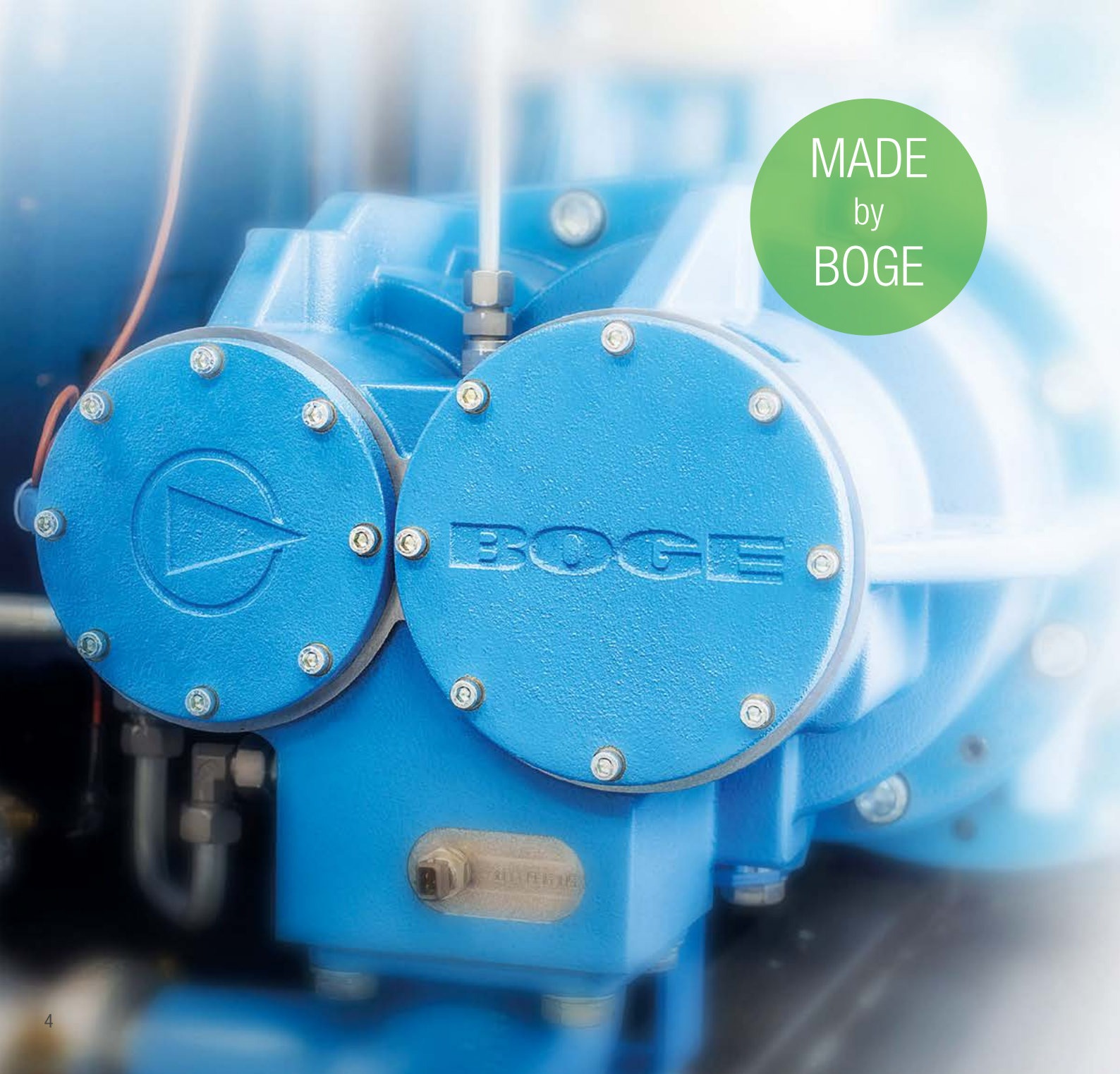
For the most effective cleaning of the intake air and minimum wear of the airend, the intake air is pre-separated and then fine-filtered in all S-4 models.

Efficient drive motor

In the interest of maximum efficiency, only highly efficient IE4 motors are used – optionally with an automatic, demand-controlled relubrication device. Permanent magnet motors are used in the smaller frequency-controlled models.

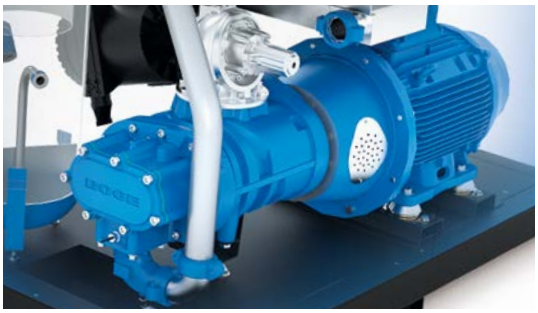
Increasing efficiency to a whole new level

The latest generation of BOGE screw compressors sets all the benchmarks for continuous compressed air demand when it comes to the quiet, efficient and reliable production of compressed air. However diverse the operating conditions may be, with its robust technology, minimal internal pressure losses and pioneering improvements to ensure maximum efficiency, the S-4 series quickly pays dividends anywhere. It also requires surprisingly low maintenance.



Efficiency-optimised airend

The airend with integrated, fully enclosed gears (depending on the model) reduces energy consumption thanks to minimised internal pressure losses. The flow-optimised internal compression process ensures a quiet, disturbance-free sound level. Thanks to the transmission gradation, all output ranges and pressures can be variably controlled.



Easy access principle for simple maintenance

All sound-insulating panels on the S-4 can be removed for easy access to all components in next to no time. Access is limited to two sides, and thanks to intelligent details, such as the drawer principle for oil and air coolers, easy maintenance is guaranteed.

Longevity thanks to intelligent design

Generously sized components ensure low internal pressure losses and maximum efficiency. Our completely maintenance-free integrateDrive is enclosed and lubricated with the oil circulation of the compressor. A minimum pressure non-return valve and a suction regulator also ensure a gentle, non-wearing startup. This keeps pressure losses to a minimum, and the compressor is vented after switching off.

Quieter for greater flexibility

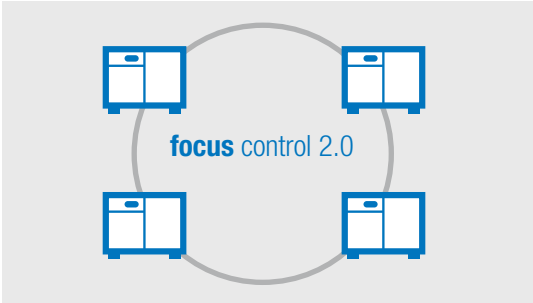
Every design feature has been developed with maximum noise reduction in mind – from the low-rotating airends and radial fans to the choice of innovative recycling material for sound insulation: It is environmentally friendly, non-flammable and boasts a high adsorption factor. Result: the quietest screw compressors in their class and maximum installation flexibility.

Simply everything under control

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 control: focus control 2.0

The focus control 2.0 controls up to four connected compressors with base load switching as required and monitors all inlet and final pressures. Whether the most powerful compressor is always switched on first or the oldest is always switched on last, or whether they are all used to capacity equally so that maintenance can be carried out at the same time – this modular control provides enormous flexibility, providing a simple solution while ensuring redundancy.



Smart lubrication

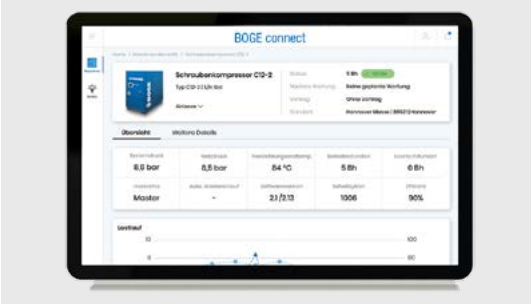
A long service life requires regularly lubricating the bearings of the drive motor at the prescribed intervals. You can choose to have the focus control 2.0 do this for you too: when the time comes, the control will automatically activate the lubricator to apply a precise amount of grease to the bearings. Naturally this is only done when the motor is running, as stipulated by the manufacturer.

No more limits: airtelligence provis 3

This intelligent, higher-level interlocking control can handle an unlimited number of compressors, compressed air networks and accessory components. Its high-performance control algorithms monitor and control the entire compressed air station – proactively and according to use. The control is operated intuitively with touch commands on a 15.6" display.

The future today: BOGE connect

BOGE connect is your ticket to Industry 4.0: all of the system data and machine details are continuously sent to the BOGE connect portal. The data can be visually displayed on any smart device. The key advantage: BOGE connect independently detects inefficient systems, helps identify optimisation potential and simplifies service.



Tailored exactly to meet your requirements

Refrigerant dryer with energy savings

Minimum pressure losses and constant pressure dew points in every phase of operation – BOGE's powerful high-pressure refrigerant compressed air dryer saves energy and considerably increases efficiency. It can be continuously adjusted to the operating conditions while consuming very few environmentally-friendly, ozone-neutral refrigerants.

Adsorption dryer with dew point control

BOGE's heat-regenerating adsorption dryers offer a highly energy-efficient solution for large compressed air applications. The standard dew point control makes it possible to extend the drying phase and significantly reduce the energy required for regeneration.

Systematic heat recovery

Much of the energy supplied to a compressor is converted to heat. BOGE Duotherm provides you with approx. 72 percent of this energy in the form of heat for further use – for heating and domestic water or process support with a quick return on investment. This system can also be very easily retrofitted at any time.

Container solutions with all the trappings

Not enough space to expand your compressed air production?
Thinking of relocating production areas? A container solution is ideal for such scenarios - there's room for everything: compressors, processing and control technology. Thanks to its compact design and ease of access for maintenance purposes, models from the S-4 series are just perfect for this plug and play solution.

For many decades, BOGE has been the top name for tailored solutions, because as well as highly specialised system components for compressed air treatment, we also offer turn-key compressed air stations that meet your requirements exactly.

Any time, anywhere. BOGE all-round service

As original compressed air pioneers, we have more to offer than just our technological expertise. BOGE has always worked closely with customers and distribution partners, and this has shaped our excellent service partnership. As our success depends on your satisfaction, we relentlessly strive for improvement and to provide you with compressed air that has added value to your process.

Always on call: our engineers

Whether commissioning, maintenance, repair or inspection – our certified BOGE service engineers around the world are your professional port of call for all technical matters. In addition, our Technical Support is available round the clock – 7 days a week.

5 year warranty: BOGE bestcair

BOGE's bestcair programme gives you five years' guaranteed protection for all replacement parts. This warranty is free for you and we will provide free replacement parts immediately for the entire period. Any maintenance required will be performed by certified BOGE service engineers – with original BOGE parts of course.

5 BEST CAIR

All inclusive: our cairpacs

Original BOGE parts are tested prior to release for several thousand hours to ensure consistently high system efficiency and to minimise the risk of unplanned machine stoppages. Regular maintenance with original BOGE parts, therefore, protects your investment. Our BOGE cairpac maintenance packages include all the parts required for maintenance and cost less than the sum of the individual parts.

Tailormade: maintenance agreements

Regular maintenance considerably prolongs the service life of your system. To this end, we offer tailormade service packages – from system inspection and maintenance agreements to a full service agreement, whereby we carry out all work to your compressed air system without exception. We are happy to advise you on your options.

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BOGE

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.

MANAGEMENT SYSTEM CERTIFICATION
DNV·GL
ISO 9001 = ISO 14001

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