

Quality: Made in Germany:

Design features of the S series



Quality feature no.1

Service friendly layout – easy access

All BOGE S series screw compressors utilise the same layout and design concept, harnessing the laws of physics.

The system has 3 clearly designated sections.

The cool electrics and motor section, the service-friendly compressor section and the autonomous fan/cooler section.

Your benefits:

Optimum ease of access to all components – nothing is obstructed. BOGE screw compressors need fewer components than conventional models; this saves on service and spare parts costs and increases availability and operating reliability. All maintenance work can be done quickly and from one side, minimising maintenance costs.

Quality feature no. 2

Section 1:

Electric and drive section

Drive motor, switch cabinet and intake filter all sited in the cold cooling air intake area.

Your benefits:

The motor and switch cabinet – minimum IP 54 protection – are continuously cooled. This ensures the longest possible component life, which in turn increases the availability of the compressor.

By utilising the coolest possible intake air, BOGE ensures the highest possible free air delivery for the user.





Quality feature no. 3

Section 2:

The Compressor section

The compressor section is compact and easily accessible. A horizontal oil separation vessel is at the lowest point, with a directly flanged airend and multi-function intake regulator mounted on top. A separator housing with final separator cartridge and minimum pressure valve complete this section. The whole set is mounted on a vibration damped sub-frame.

Your benefits:

Direct flanging of the airend and oil separator block eliminate the need for interconnecting hoses.

Quality feature no. 4

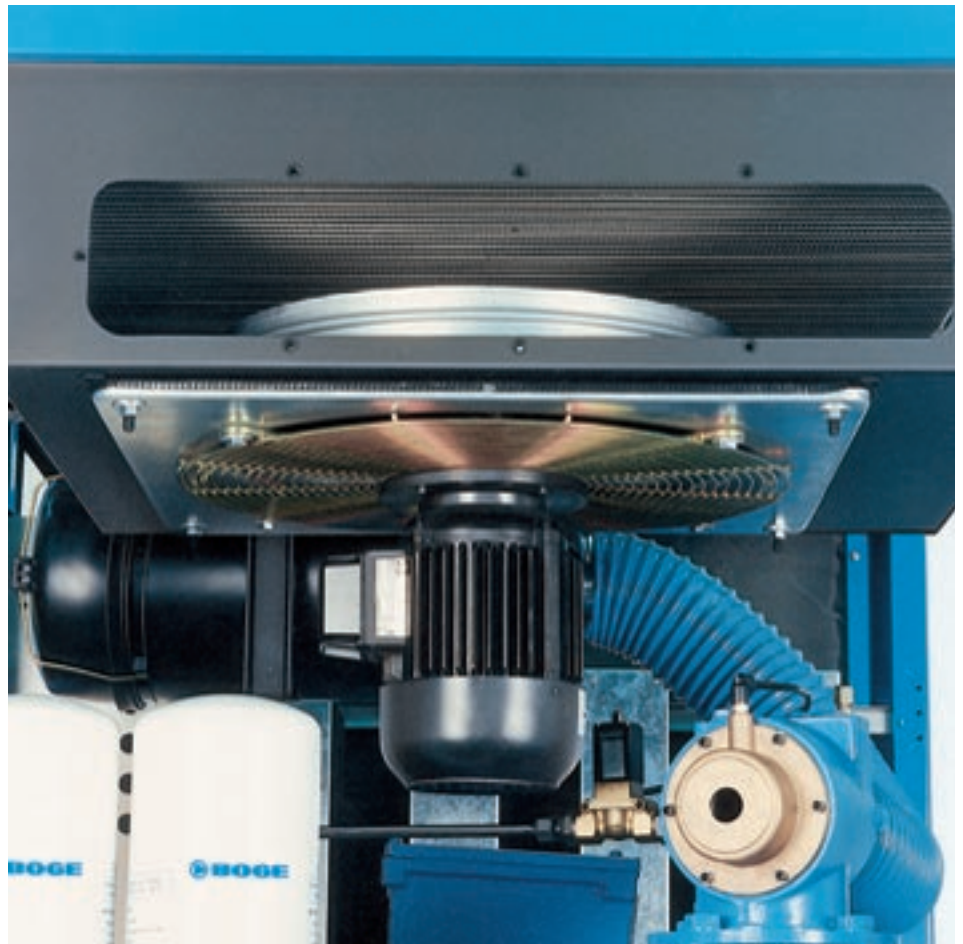
Section 3:

Cooling section

An autonomous fan/cooler assembly with forced air circulation sited at the top of the system in the cooling air exhaust is coupled with a generously dimensioned after-cooler assembly.

Your benefits:

This is the only area where high cooling air temperatures occur. The chimney effect designed into the system means that hot air automatically rises, leaving no hot spots inside the package during standstill. The hot air can either be released directly into the atmosphere or ducted away. With the ducting system, hot cooling air can be exhausted to the outside in the summer or used for space heating in the winter. Thanks to a cleverly designed maintenance cover, the cooler can be easily cleaned without the need for dismantling.



Quality feature no. 5

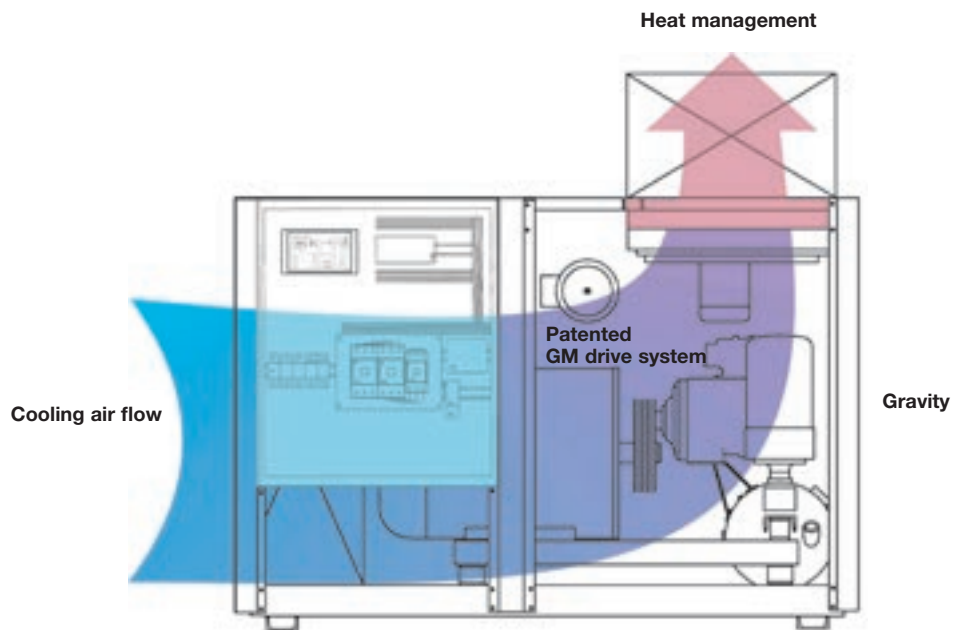
Optimised cooling air circulation

Cooling air is drawn into the side of the compressor and is exhausted upwards, utilising the laws of physics (hot air rises). The cooling process actually causes a slight vacuum in the package, which sucks the panels tightly against the frame.

Your benefits:

The panels are sealed against the frame in operation, which means that the optimum cooling air flow is guaranteed throughout the life of the compressor, ensuring a consistently low compressed air discharge temperature.

Discharge duct work can easily be fitted to take away the hot cooling air. In winter this can be utilised for room heating and in summer this can be ducted into the atmosphere. Additionally, a super-silencing hood can be utilised to provide very low sound pressure levels.



Quality feature no. 6

Innovative oil-separation

The cornerstone of the BOGE safety oil separation system is the horizontally mounted oil separation vessel with the direct flange mounted airend discharge linked to the external spin-on final separator cartridge.

Your benefits:

A separation system with no pressure losses which guarantees a very low residual oil content of only 1-3 mg/m³ in every operating mode. A spin-on separator cartridge that lasts longer and reduces the downstream treatment of compressed air. Both benefits prove the integrity of the BOGE oil separation design.

