



SCROLL COMPRESSORS E0 series

Super-compact and whisper-quiet – the BOGE EO series enhances the oil-free segment and literally fills any gap

THE DESIGN PRINCIPLE

The heart of BOGE EO compressors (Eccentric, Oil free) consists of one or more scroll compressors. Each operates with two compressor screws, with one being stationary while the other rotates eccentrically. Although the two spirals intermesh, they do not touch each other. The air taken in is continuously forced into an increasingly confined space, so producing pulsation-free compressed air which is absolutely free of oil. Efficiency is further improved with a two-stage aftercooler. Up to four compressors can be installed in one housing if high free air delivery rates are required.

A modular concept for an intelligent, compact system solution!

With an output of 5.5 to 30 hp, BOGE EO compressors deliver oil-free compressed air at 116 and 145 psi (Fig. shows EO 22 N)





WHISPER-QUIET

The closer a compressor gets to the workplace, the more crucial the sound pressure level becomes. The design of the scroll compressor comes into its own here, with whisper-quiet operation and ultra-low vibration levels. Perfect for example in laboratories or hospitals.



OIL FREE

Scroll compressors can manage without oil lubrication because the aluminium screws in the compression chamber do not rub against each other. The advantage of this design: the guarantee of 100% high-quality, oil-free compressed air. A condensate cleaner is not necessary either.



EFFICIENT

focus control 2.0 is included as standard. It regulates up to four scroll units in the housing as well as up to four BOGE EO compressors horizontally with base load switching. Monitored by a multi-color LCD display, efficiency for as many as 16 compressor units can be optimized here.

COMPACT

The smart configuration of components in BOGE EO compressors results in a very small footprint. This means they can be positioned next to the workplace – even as a system solution with integrated dryer. Astounding: They will even fit through a standard-sized door.

Oil-free air is a must when it comes to sensitive work environments.

This is what prompted BOGE to develop the EO series, as the low to mid-range oil-free performance segment (\leq 30 hp) did not however previously include compressors that were quiet and compact enough to be set up near the workplace. Its scroll compressors are not only extremely quiet, but also have very low vibration levels. A modular concept with 1 up to 4 airends lets you match usage to demand, while offering maximum versatility – whether autonomous, used on a receiver, with a separate refrigerant dryer or as a duplex unit.



THE SCROLL PRINCIPLE IN THE SMALLEST FORMAT

The latest model in the BOGE EO series is also the smallest: With the new EO 4 N, which is positioned in the 5.5 hp performance segment, BOGE is specifically catering for sensitive applications that depend on oil-free compressed air but can manage with lower outputs or appreciate even smaller dimensions.

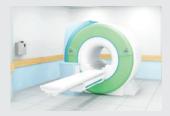


EXAMPLE OF A SOLUTION: BOGE EO 11 N Just how seriously BOGE takes the issue of safety is shown by the example of the EO 11 N. To protect the initial invest all EO types are equipped with phase sequence monitoring. The **focus** control 2.0 continuously monitors all relevant operating values i.e. intake-, outlet- and discharge temperature cleary-arranged on the display.



EXAMPLE OF A SOLUTION: BOGE EO 17 N The redundancy built into a triple unit ensures that it offers maximum flexibility and safety. The space required by the BOGE EO 22 N is no bigger (extra chamber for a 4th compressor included) than the footprint of the triple unit EO 17 N. If the compressors are operated with the same maintenance cycles, they can also be serviced at the same time. If required, free air delivery can also be raised at any moment. The EO 17 N offers maximum flexibility by the subsequent installation of a fourth compressor stage - directly or even at a later time.

APPLICATIONS

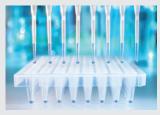


MEDICAL TECHNOLOGY Sensitive work environments such as doctors' surgeries, laboratories and hospitals have relied on 100% oil-free compressed air from BOGE for years. And positioning has become even more flexible with the compact models from the EO series.



DENTISTS' SURGERIES

100% pure technical compressed air protects the health of patients while preventing highly sensitive equipment from contamination. The low-vibration, whisper-quiet operation of the compact EO 6 models even allow them to be set up in the treatment room.



PHARMACEUTICAL INDUSTRY

100% oil-free compressed air is an indispensable standard in the pharmaceutical industry. BOGE EO compressors do away with the residual risk of oil accidentally getting into the ambient air.



AGRICULTURE

Both milk producers and small-scale food processors appreciate the low-vibration, whisper-quiet operation of the scroll compressors, which offer 100% safety from contamination as well.



The latest generation of BOGE's belt-driven EO compressors has

all benefits on its side: Thanks to a minimum number of moving parts and first-rate ease of servicing, these absolutely oil-free scroll compressors stand out with maximum flexibility, low maintenance and outstanding efficiency.

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ADVANTAGES AT A GLANCE



DESIGNED WITH A COOL HEAD

The oil-free compression chamber made of quality die-cast aluminium not only yields high efficiency and guarantees a long service life, but also offers excellent heat dissipation properties – thanks to the compact design, integrated radial fan and superior workmanship of the aluminium components.



THE TWO-STAGE COOLING CONCEPT

A generously dimensioned surface cooler is responsible for primary cooling: Its cooling effect is reinforced by intelligent configuration in a separate area. The secondary cooler takes the form of a high-quality aftercooler made of aluminium, which achieves excellent compressed air outlet temperatures thanks to aluminium fins. This two-stage cooling concept thus ensures outstanding efficiency combined with a long service life for components.



BUILT-IN EASE OF MAINTENANCE

Characterized by extremely long maintenance intervals (10,000 hrs [8 bar] & 5,000 hrs [10 bar]), these high-quality compressors also benefit in terms of service life from simple airend lubrication at four central points. Maintenance is fast and straightforward due to the easily accessible grease nipples and the fact that no additional cover is needed for lubrication.

BOGE type	Max. pressure		Effective free air delivery*		Motor rating		Sound pressure level**	Dimensions	Com- pressed	Weight
	bar	psig	l/min	cfm	kW	HP	dB (A)	W x D x H (inch)	air outlet NPT	lbs
EO 4	8	116	410	14.4	4	5.5	60	27 x 40 x 39	1/2"	474
EO 4	10	145	340	12.0	4	5.5	60	27 x 40 x 39	1/2"	474
E0 6	8	116	620	21.9	5.5	7.5	62	27 x 40 x 39	1/2"	551
E0 6	10	145	490	17.3	5.5	7.5	59	27 x 40 x 39	1/2"	551
EO 11	8	116	1240	43.8	11	15	65	36 x 60 x 58	1"	1290
EO 11	10	145	980	34.6	11	15	62	36 x 60 x 58	1"	1290
EO 16	8	116	1860	65.7	16.5	22	66	36 x 60 x 58	1"	1566
EO 16	10	145	1470	51.9	16.5	22	63	36 x 60 x 58	1"	1566
E0 17	8	116	1860	65.7	16.5	22	62	36 x 60 x 74	1"	1707
E0 17	10	145	1470	51.9	16.5	22	59	36 x 60 x 74	1"	1707
E0 22	8	116	2480	87.5	22	30	64	36 x 60 x 74	1"	1975
E0 22	10	145	1960	69.2	22	30	61	36 x 60 x 74	1"	1975

* Free air delivery as per 1217:2009 Annex C

** Sound pressure level measured according to DIN EN ISO 2151:2009