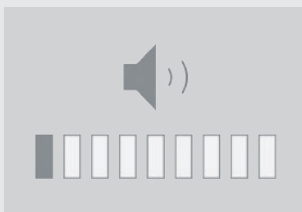


New in the oil-free segment: BOGE EO series



For oil-free compressed air
right at the workplace!



WHISPER QUIET

The question of noise increasingly takes centre stage as compressor use shifts nearer to the workplace. This is where the scroll compressor comes into its own with its whisper quiet, ultra-low vibration operation. Ideal for applications such as laboratories and hospitals.



OIL-FREE

Scroll compressors dispense with the need for oil lubrication since there is no friction between the aluminium screws in the compression chamber. This design-related advantage guarantees high quality 100% oil-free compressed air. Even a condensate cleaner can be dispensed with.



EFFICIENT

The standard **focus** control 2.0 manages up to four scroll power units in one housing and controls up to four BOGE EO compressors horizontally in base-load switching operation. This allows up to 16 compressor units to be monitored on a multi-colour LCD display and their efficiency to be optimised.



COMPACT

The intelligent arrangement of components in a BOGE EO compressor results in an extremely small footprint, making it ideal to use at the workplace - even when configured as a system solution with an integrated dryer. Amazingly, it even fits through a standard doorway.

Particularly where sensitive working environments are concerned, oil-free compressed air is a must. However, since, no compressor in the small to medium-performance oil-free segment (up to 22 kW) has been quiet and compact enough up to now to use right at the workplace, BOGE set out to develop the EO series. The scroll compressors in this series work extremely quietly with very low-vibration. A modular concept with 1-4 airends systematically matches compressor use to demand and also offers maximum versatility - no matter whether used on receivers, with a refrigerant air dryer, as a duplex unit or with a cyclone separator.

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THE DESIGN PRINCIPLE

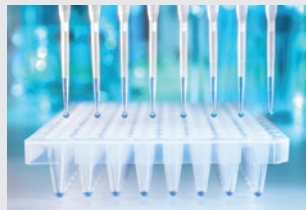
The centrepiece of BOGE EO compressors (eccentric, oil-free) is made up of one or more scroll compressors. Each of these operates with two spirals, one of which is fixed while the other rotates orbitally. The two spirals interleave without touching. The air intake is continuously pressed into the increasingly narrower interior space, thereby generating pulsation-free compressed air which is absolutely oil-free. The use of a two-stage aftercooler provides an additional boost to efficiency. Up to four compressors can be accommodated in a single housing when particularly high free air delivery is called for.

BOGE EO compressors with a 5.5 - 22 kW rating supply 8 or 10 bar oil-free compressed air (the EO 22 D with an integrated refrigerant dryer is shown here).

RANGE OF APPLICATION

Medical technology

Sensitive areas such as dentists' surgeries and hospitals have been relying on 100% oil-free compressed air from BOGE for many years now. Installation is now even easier thanks to the compact models in the EO series.


Pharmaceutical industry

100% oil-free compressed air is an indispensable standard in the pharmaceutical industry. The use of BOGE EO compressors completely eliminates the residual risk of ambient air becoming accidentally contaminated with oil.


BOGE EO SERIES IN NUMBERS

BOGE type	Maximum pressure		Drive rating		Effective free air delivery		Sound pressure level dB(A)	Dimensions W x D x H (mm)	Compressed air outlet inch	Weight kg
	bar	psig	kW	hp	l/min	cfm				
EO 17	8	116	16.5	22	1860	65.7	62	915 x 1520 x 1880	G1	774
EO 17	10	150	16.5	22	1470	51.9	59	915 x 1520 x 1880	G1	774
EO 17 D	8	116	16.5	22	1860	65.7	62	915 x 1520 x 1880	G1	808
EO 17 D	10	150	16.5	22	1470	51.9	59	915 x 1520 x 1880	G1	808
EO 22	8	116	22	30	2480	87.6	64	915 x 1520 x 1880	G1	896
EO 22	10	150	22	30	1960	69.2	61	915 x 1520 x 1880	G1	896
EO 22 D	8	116	22	30	2480	87.6	64	915 x 1520 x 1880	G1	934
EO 22 D	10	150	22	30	1960	69.2	61	915 x 1520 x 1880	G1	934

* free air delivery measured according to ISO 1217, annex C

** sound pressure values measured according to DIN EN ISO 2151