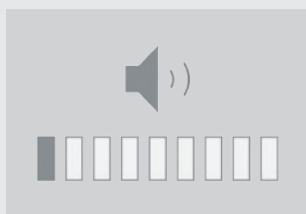


# New in the oil-free segment: BOGE EO series



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 4 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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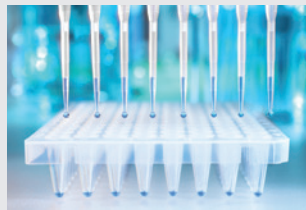
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**THE DESIGN PRINCIPLE**

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 eccentrically. 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.

**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 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).


**DIE BOGE EO-BAUREIHE IN ZAHLEN**

| BOGE Typ | Maximum pressure |      | Drive rating |    | Efficiency<br>Free air delivery |      | Sound pressure level<br>dB(A) | Dimensions<br>W x D x H (mm) | compressed air outlet<br>inch | Weight<br>kg |
|----------|------------------|------|--------------|----|---------------------------------|------|-------------------------------|------------------------------|-------------------------------|--------------|
|          | bar              | psig | kW           | hp | l/min                           | cfm  |                               |                              |                               |              |
| EO 17    | 8                | 116  | 16.5         | 22 | 1890                            | 66.7 | 62                            | 915 x 1520 x 1880            | G1                            | 774          |
| EO 17    | 10               | 150  | 16.5         | 22 | 1515                            | 53.5 | 59                            | 915 x 1520 x 1880            | G1                            | 774          |
| EO 17 D  | 8                | 116  | 16.5         | 22 | 1890                            | 66.7 | 62                            | 915 x 1520 x 1880            | G1                            | 808          |
| EO 17 D  | 10               | 150  | 16.5         | 22 | 1515                            | 53.5 | 59                            | 915 x 1520 x 1880            | G1                            | 808          |
| EO 22    | 8                | 116  | 22           | 30 | 2520                            | 89.0 | 64                            | 915 x 1520 x 1880            | G1                            | 896          |
| EO 22    | 10               | 150  | 22           | 30 | 2020                            | 71.3 | 61                            | 915 x 1520 x 1880            | G1                            | 896          |
| EO 22 D  | 8                | 116  | 22           | 30 | 2520                            | 89.0 | 64                            | 915 x 1520 x 1880            | G1                            | 934          |
| EO 22 D  | 10               | 150  | 22           | 30 | 2020                            | 71.3 | 61                            | 915 x 1520 x 1880            | G1                            | 934          |

\* free air delivery measured according to ISO 1270, ed. 3, annex C-1996

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