

Tailor-made for sensitive applications:
BOGE scroll compressor EO 6

- TOTALLY OIL-FREE
- WHISPER-QUIET AND LOW VIBRATION LEVEL
- HIGH EFFICIENCY THANKS TO TWO-STAGE COOLING CONCEPT
- LOW MAINTENANCE AND EASY ACCESS

Super compact and incredibly quiet – the BOGE EO series enhances the oil-free segment and literally fills any gap. It is specially suitable for sensitive applications in which absolute exclusion of oil and unobtrusive operation are essential. Thanks to the intelligent arrangement of the components, the device can be placed directly in the workplace. The two-step after-cooling ensures low compressed air outlet temperatures, and the integrated radial fan guarantees optimal cooling of the airend. With its outstanding efficiency values (for all models), this series not only manages to generate oil-free compressed air quietly and with very little vibration, it is also extremely economical to run.

Most important characteristics:

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.

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. This makes them the first choice for laboratories and hospitals for example.

EXTENDABLE

The system is controlled either via base control supplied as standard or optional focus control 2.0. The focus control 2.0 allows the connection of up to three additional BOGE EO compressors in the base load change. In maximum configuration with four units in a horizontal network, expansion of up to 12 additional airends is possible.

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 – optionally as a system solution with integrated dryer.

TECHNICAL DATA

Effective free air delivery of complete unit measured according to ISO 1217 Part C	0,620 m³/min
at maximum compressor overpressure	8,00 bar
Rated capacity of main drive motor	5,50 kW
Protection type / insulation class of the motor	IP 55 / F
Operating voltage	400 V / 50 Hz
Control voltage	24 V AC / 24 V DC
Cooling air requirement	1.100 m³/h
Suction or ambient temperature (min to max)	+2...+40 °C
Compressed air outlet temperature above ambient temperature (on compressor)	15 K

DIMENSIONS AND WEIGHT

Super-silenced version (according to dimensional drawing):	M 3200.1104
Sound pressure level (acc. to DIN EN ISO 2151)	62 dB(A)
Width	670 mm
Depth	1.000 mm
Height	972 mm
Compressed air connection (ball valve)	G 1/2
Weight	250 kg

UNBEATABLE COMBINATION: TOTALLY OIL-FREE COMPRESSION WITH LOW RUNNING COSTS, ENERGY EFFICIENCY AND ENVIRONMENTAL FRIENDLINESS.

- The BOGE EO range with optimised scroll technology together with its large components ensures optimal performance ranges and maximum maximum volumetric efficiencies
- Highly-effective two-stage post-cooling for low compressed air outlet temperatures and optimal cooling of all components
- The intelligent design of the overall unit results in extremely low internal pressure losses as well as optimal intake air in the oil-free BOGE scroll aircend
- The highly efficient, low maintenance compression system runs in start/stop mode, minimises idling time and, in conjunction with energy-saving IE3 drive motors, ensures optimised power demands.

- The use of the very latest compressor controls guarantees automatic selection of the most economical operating mode according to the BOGE control, operation and monitoring concept and intrinsically safe operation of the compressor. Individual fault message displays, compression temperature, pressure display and simple and precise pressure setting via the keypad are just a few of the features

- The refrigerant compressed air dryer comes ready for operation, runs automatically and comes as standard with a fitted automatically-controlled condensate drain

MAINTENANCE FRIENDLY

- The interior is easy to access for routine inspection and maintenance tasks thanks to the generously sized doors and removable panels in the cover. Quick and easy maintenance through good accessibility from all sides

OTHER CHARACTERISTICS

- IP 55 motor protection class with PTC resistors
- Integrated electric switch cabinet (IP 54)
- total contact protection with belt protection casing and protection of the belt from contamination
- Powder-coated surface coating, light blue, RAL 5012

OPTIONS LISTED FOR THIS SERIES

Please note that equipment in this list may be contradictory or may not be available for individual models of the series. For the correct selection, please refer to the current product price list.

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- **Mains disconnecting device (EMERGENCY STOP switch)** 3-phase 400-690 V integrated into switch cabinet
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- **High-pressure hose 500 mm** for vibration-free compressed air connection to the mains or downstream components
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- Transport preservation
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- Connection for **airtelligence** master control system, comes as standard
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- Connection for **airtelligence PROVIS** master control system, comes as standard
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- Mounted condensate drain (230 V / 50 Hz) connected electrically
 - Connection with fuse protection for separate refrigerant dryer 230 VAC, at a supply voltage of 400 V +N +PE
 - Load separation switch for integrated refrigerant compressed air dryer
 - Internal connection with fuse protection for heatless adsorption dryer 230 VAC, at a supply voltage of 400 V +N +PE
 - Internal connection with fuse protection for heatless adsorption dryer 230 VAC, only active in the loading phase of the compressor, at a supply voltage of 400 V +N +PE
 - Connection for heatless adsorption dryer 230 VAC, with synchronisation control at a supply voltage of 400 V +N +PE
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- Connection for external control contact for remote On/Off switching, with coupling relay (other voltages upon request)
 - Preselection local/remote via key-switch instead of preselection via parameters
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- serial interface RS485 (Modbus RTU) for connection to the remote diagnostics tool airstatus or integration into client visual display system insofar as the internal interface is occupied
 - Profibus interface in separate casing for wall mounting
 - Automatic (load-free) restart following loss of voltage (programmable)
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- Alarm module for **base** control provides messages for stand-by/operation/collective fault on isolated contacts
 - Message 'load cycle' on isolated contact
 - Relay module for connection to base load change control or isolated contacts
 - 2 relay modules for connection of base load change control or isolated contacts
 - 3 relay modules for connection of base load change control or isolated contacts
 - 4 relay modules for connection of base load change control or isolated contacts
 - 5 relay modules for connection of base load change control or isolated contacts
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- Intake filter monitoring (display/maintenance message)
 - Oil filter monitoring (display/maintenance message)
 - Direction of rotation monitoring (display/fault message)
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- **Commissioning** by certified BOGE service technician
 - **Commissioning** by certified BOGE service technician excluding travel
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- **BOGE bestcair** Five-year warranty on all category A exchanged parts (compressor airends up to 36,000 operating hours), cf. **bestcair** warranty conditions at the end of this document
Only for compressors installed in Germany

Subject to technical modifications.

The identified performance values refer to compressors with standard features.

focus control 2.0

Discover the next generation BOGE control unit: with the **focus** control 2.0, it's simple to keep everything under control – with the emphasis on 'simple'. Up to four rigid or frequency-controlled compressors can be managed. They are self-authorized by RFID chip and control the numerous functions intuitively. Just how easy modern compressor management can be is proven by the rapid switchover between the two main displays: the system-based display shows an overview of all the connected compressors (base load switching), or alternatively the compressor-based display can be used to show the individual status of each connected compressor.

Most important characteristics:

SIMPLY EASY

The multicolour LCD display with backlight is setting new standards in operator comfort: thanks to its 5" screen and the excellent resolution, it is extremely easy to read and operate using the capacitive keys on the touchscreen. A clear structure with machine symbols makes operating the device particularly easy.

SIMPLY VERSATILE

Up to four rigid or frequency-controlled compressors can be controlled by the **focus** control 2.0. You can choose between two main displays: a system-based display for an overview of all connected compressors (base load switching) or compressor-based display for individual monitoring of each connected compressor.

SIMPLY MODERN

Authorized operators can log in hands-free to the device quickly and easily with an RFID chip. In addition, the RFID interface allows the cairpac 3000 maintenance pack to be identified as an original spare part thanks to the chip in it. The maintenance documentation for the bestair warranty program can also be called up at any moment via the interface.

SIMPLE UPDATING

All updates and upgrades can be saved directly into the control unit using a USB stick or notebook (notebook not strictly required).

Subject to technical modifications.