SO 61 to **SO 126** Oil-free screw compressors (air or water cooled)

Free air delivery: 5.25 – 13.01 m³/min, 185 – 459 cfm
Pressure range: 8 – 10 bar, 115 – 150 psig
Motor range: 45 – 90 kW, 60 – 125 HP

SO 126

MOTOR
These models are equipped with a three-phase asynchronous motor, ISO class F with additional motor reserves to meet the most challenging operating conditions. The motor is installed in the cool air intake section of the package and is thermistor protected to ensure a long service life.

WATER COOLING
Where large volumes of air are required water-cooling is a must. The intelligent BOGE cooling concept guarantees safe and economical cooling of the compressor with optimum maintenance friendliness.

EXHAUST AIR COOLING
As an option the SO series can be equipped with a cowl cooler eliminating the need for expensive exhaust air ducts.

PRIME CONTROL
The PRIME control is the latest state-of-the-art energy efficient controller to come from BOGE. A large-scale back-lit LC display with clear text information shows error/ maintenance messages, operating status and all operating parameters on three main menus.

Oil-free compressed air with efficiency guarantee: This range economically and reliably produces oil-free compressed air. Depending on site requirements they can be air or water cooled. 8 models with 16 variants synchronise the compressed air system to meet your demands.

BOGE Model	Max. pressure		Effective free air delivery*		Motor power Main drive motor		Motor power Fan motor		Dimensions silenced W x D x H	Dimensions super-silenced W x D x H	Weight silenced	Weight super-silenced
	bar	psig	m³/min	cfm	kW	HP	kW	HP	mm	mm	kg	kg
SO 61 A	8	115	6.65	235	45	60	4.80	6.50	2957x1310x1886	3769x1310x2385	2654	2934
	10	150	5.25	185	45	60	4.80	6.50	2957x1310x1886	3769x1310x2385	2654	2934
SO 76 A	8	115	8.86	313	55	75	4.80	6.50	2957x1310x1886	3769x1310x2385	2804	3084
	10	150	7.70	272	55	75	4.80	6.50	2957x1310x1886	3769x1310x2385	2804	3084
SO 101 A	8	115	12.06	426	75	100	4.80	6.50	2957x1310x1886	3769x1310x2385	2934	3214
	10	150	10.46	369	75	100	4.80	6.50	2957x1310x1886	3769x1310x2385	2934	3214
SO 126 A	8	115	13.01	459	90	125	4.80	6.50	2957x1310x1959	3769x1310x2459	3046	3326
	10	150	13.01	459	90	125	4.80	6.50	2957x1310x1959	3769x1310x2459	3046	3326
SO 61 W	8	115	6.65	235	45	60	0.55	0.75	2906x1310x1890	3312x1310x1890	2171	2201
	10	150	5.25	185	45	60	0.55	0.75	2906x1310x1890	3312x1310x1890	2171	2201
SO 76 W	8	115	8.86	313	55	75	0.55	0.75	2906x1310x1890	3312x1310x1890	2341	2371
	10	150	7.70	272	55	75	0.55	0.75	2906x1310x1890	3312x1310x1890	2341	2371
SO 101 W	8	115	12.06	426	75	100	0.55	0.75	2906x1310x1890	3312x1310x1890	2511	2541
	10	150	10.46	369	75	100	0.55	0.75	2906x1310x1890	3312x1310x1890	2511	2541
SO 126 W	8	115	13.01	459	90	125	0.55	0.75	2906x1310x1890	3312x1310x1890	2561	2591
	10	150	13.01	459	90	125	0.55	0.75	2906x1310x1890	3312x1310x1890	2561	2591

* Free air delivery for the complete package in accordance with ISO 1217, Appendix C, at 20ºC ambient temperature and maximum pressure. Emitted sound level as per PN8NTC2.3 from 76 dB(A)
The technical data is designed for international use: maximum ambient temperature + 40ºC, maximum cooling water temperature + 40ºC.
Different demands on request. Dimensions and construction are subject to change.

SO 150-2 to **SO 480-2** – water cooled oil-free screw compressors

Free air delivery: 16.20 – 51.49 m³/min, 572 – 1818 cfm
Pressure range: 8 – 10 bar, 115 – 150 psig
Motor range: 110 – 355 kW, 150 – 480HP

SO 220-2

EXTREMELY QUIET
The SO-2 machines are equipped with a combined sound and pulsation absorber. Because of its intelligent design and the use of powerful sound absorbing materials the entire range operates quieter than ever before.

HIGHEST EFFICIENCY
The cooling air flow of the SO-2 machines has been substantially optimised. The air intake from the coolest area and the minimisation of pressure losses additionally increase the free air delivery with a low specific power consumption.

SAFE AND SERVICE FRIENDLY
Particular importance was given to optimise accessibility of maintenance intensive components (e.g. cooler and oil cooler) during the design of the SO-2 machines. An additional separator was integrated to improve intermediate separation – for absolutely safe operation.

FLEXIBLY CONNECTING
The raised position of the compressed air outlet does not require any risers and allows for problem free connection of additional components: e.g. external aftercooler, cyclone separator, filters and dryers.

Oil-free compressed air at the highest level: The SO-2 generation of oil-free screw compressors sets new standards in the 110 and 355 kW performance class. High FADs, low specific power consumption, extremely quiet operation along with the service friendly design are the benchmarks of this series – for oil-free compressed air production at a superior level!

BOGE Model	Max. pressure		Effective free air delivery*		Motor power				Dimensions silenced W x D x H	Dimensions super-silenced W x D x H	Weight silenced	Weight super-silenced
					Main drive motor		Fan motor					
	bar	psig	m³/min	cfm	kW	HP	kW	HP	mm	mm	kg	kg
SO 150-2 W	8	115	18.57	656	110	150	0.75	1.00	–	3230x1520x1820	–	3300
	10	150	16.20	572	110	150	0.75	1.00	–	3230x1520x1820	–	3300
SO 180-2 W	8	115	21.60	763	132	180	0.75	1.00	–	3230x1520x1820	–	3350
	10	150	19.60	692	132	180	0.75	1.00	–	3230x1520x1820	–	3350
SO 220-2 W	8	115	26.30	929	160	220	0.75	1.00	–	3230x1520x1820	–	3400
	10	150	23.20	819	160	220	0.75	1.00	–	3230x1520x1820	–	3400
SO 269-2 W	10	150	26.18	925	200	270	0.75	1.00	–	3230x1520x1820	–	3600
SO 270-2 W	8	115	34.90	1232	200	270	1.10	1.50	–	3782x1800x2268	–	5600
	10	150	28.40	1002	200	270	1.10	1.50	–	3782x1800x2268	–	5600
SO 340-2 W	8	115	42.36	1496	250	340	1.10	1.50	–	3782x1800x2268	–	5800
	10	150	35.92	1268	250	340	1.10	1.50	–	3782x1800x2268	–	5800
SO 430-2 W	8	115	47.22	1668	315	430	1.10	1.50	–	3782x1800x2268	–	6000
	10	150	46.89	1656	315	430	1.10	1.50	–	3782x1800x2268	–	6000
SO 431-2 W	8	115	51.49	1818	315	430	1.10	1.50	–	3782x1800x2268	–	6000
SO 480-2 W	10	150	51.42	1816	355	480	1.10	1.50	–	3782x1800x2268	–	6600

* Free air delivery for the complete package in accordance with ISO 1217, Appendix C, at 20ºC ambient temperature and maximum pressure. Emitted sound level as per PN8NTC2.3 from 76 dB(A)
The technical data is designed for international use: maximum ambient temperature + 40ºC, maximum cooling water temperature + 40ºC.
Different demands on request. Dimensions and construction are subject to change.

The K Series: compact, cost efficient, consistently oil free.

Construction advantages.

UNIQUE: THE PUSH ROD PRINCIPLE.

The BOGE K series is engineered to provide a cost effective source of oil free com-pressed air. It utilises an innovative push rod principle. This design reduces frictional forces and consequently reduces wear. The cylinder bore, in which the special com-pound coated piston moves, is made of a high strength aluminium-silicon alloy. As the push rod principle operates 100 percent oil free, neither the generated compressed air nor the accrued condensate, contain even the slightest trace of oil.

The innovation boost for oil free compressed air: **The BOGE K series has been developed utilising the unique push rod system ensuring the absolutely efficient generation of oil free compressed air with extremely low wear and all in a compact design. The BOGE K series is the ideal solution for fluctuating compressed air demand regardless of whether used as a basic load or peak load machine in industry sectors that demand oil free air.**

100 PERCENT OIL FREE

You can absolutely rely on the BOGE K series because the system is designed to work 100 percent oil free to prevent any contamination right from the start – producing consistently high quality and environmentally friendly compressed air. No oil in the compressed air, no oil in the condensate!

100 PERCENT DEMAND ORIENTED

The BOGE K series is engineered to adapt to your air requirements. Single stage generation up to 10 bar, multi stage generation up to 15 and/or 40 bar. With rated motor powers between 2.2 and 11 kW producing outputs between 244 and 1.296 l/min.

100 PERCENT ECONOMICALLY EFFICIENT

The BOGE K series provides benefits and savings in several ways: with regard to downstream air treatment; with regard to condensate disposal; with regard to service because of minimised maintenance and inspection costs; with regard to lifecycle costs because no oil changes are required at all, and with regard to power consumption because K stands for energy efficient operation.

LOW WEAR

The push rod with piston guide system optimises efficiency by reducing friction and wear. As a result, the service life of the piston coating is considerably higher – and your maintenance costs are kept consistently lower.

INTELLIGENT CONTROL SYSTEM

The K series machines is equipped with the BASIC control as standard or the FOCUS control as an option where the BOGE leakage monitor comes as a standard enabling you to monitor your compressed air network for leakages.

FLEXIBLE RANGES OF APPLICATION

The BOGE K series is, among others, successfully used in hospitals, the pharmaceutical industry, the food industry and in breweries – or wherever absolutely oil free compressed air, a compact design and efficiency play an important role.

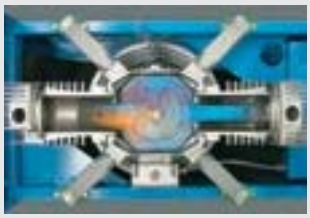
OIL-FREE

Piston compressors **K 3** to **K 15**
Compressor units **K 3-** to **K 15-**

Effective free air delivery: 244 – 1296 l/min, 9 – 46 cfm
Pressure range: 10 – 40 bar, 150 – 600 psig
Rated power: 2.2 – 11 kW, 3 – 15 HP

K 3 to K 15

K 3- to K 15-



OIL-FREE SYSTEM
The K series does not use an oil-lubricated crosshead drive. It is therefore ideally suited to sensitive applications where absolutely oil free compressed air is paramount such as in the pharmaceutical and food industries.

PUSH ROD PRINCIPLE
BOGE developed the K series oil-free piston compressor utilising state-of-the-art compressor technology. The cylinder is mounted horizontally, and a centrally located crankshaft operates a push rod principle, ensuring the piston remains parallel in the cylinder. This innovation vastly reduces

EFFICIENCY
As an oil-free compressor, the requirement for downstream air treatment is significantly reduced – if not eliminated with the K series. Therefore pressure losses experienced during the treatment process can be minimised or eradicated leading to a noticeable reduction in energy costs.

BASIC CONTROL
Optional the K series is available with the BOGE BASIC or FOCUS with pressure sensor technology and additional control functions.

This is how compact and cost efficient oil free compressed air can be:

The K series piston compressors have been developed utilising the innovative push rod principle providing absolutely oil-free compression – in an entirely new compact design. The K series has been specifically designed for the smaller compressed air user requiring 100% oil-free compressed air. And, available at an unbeatable cost effective price/ performance ratio!

BOGE Model	Receiver volume	Max. pressure		Effective free air delivery*		Nominal output drive motor		Dimensions silenced	Dimensions super-silenced	Weight silenced	Weight super-silenced
	Litres	bar	psig	l/min	cfm	kW	HP	W x D x H (mm)	W x D x H (mm)	kg	kg
K 3		10	150	244	9.0	2.2	3.0	1012 x 804 x 784	1312 x 804 x 784	182	189
K 4		10	150	328	12.0	3.0	4.0	1012 x 804 x 784	1312 x 804 x 784	182	189
		15	220	279	10.0	3.0	4.0	1012 x 804 x 784	1312 x 804 x 784	182	189
K 6		10	150	466	16.0	4.0	5.5	1012 x 804 x 784	1312 x 804 x 784	209	216
		15	220	420	15.0	4.0	5.5	1012 x 804 x 784	1312 x 804 x 784	209	216
K 8		10	150	648	23.0	5.5	7.5	1012 x 804 x 784	1312 x 804 x 784	225	232
		40	600	390	14.0	5.5	7.5	1012 x 804 x 784	1312 x 804 x 784	232	239
K 15		10	150	1296	46.0	11.0	15.0	1497 x 806 x 891	2097 x 806 x 891	379	391
		15	220	794	28.0	11.0	15.0	1497 x 806 x 891	2097 x 806 x 891	380	392
		40	600	780	27.5	11.0	15.0	1497 x 806 x 891	2097 x 806 x 891	380	392
K 3-	270	10	150	244	9.0	2.2	3.0	1770 x 804 x 1346	1770 x 804 x 1346	290	297
K 4-	270	10	150	328	12.0	3.0	4.0	1770 x 804 x 1346	1770 x 804 x 1346	290	297
K 4-	250	15	220	279	10.0	3.0	4.0	1630 x 804 x 1346	1630 x 804 x 1346	310	317
K 6-	270	10	150	466	16.0	4.0	5.5	1770 x 804 x 1346	1770 x 804 x 1346	320	327
K 6-	250	15	220	420	15.0	4.0	5.5	1630 x 804 x 1346	1630 x 804 x 1346	340	347
K 8-	270	10	150	648	23.0	5.5	7.5	1770 x 804 x 1346	1770 x 804 x 1346	330	337
K 8-	250	40	600	390	14.0	5.5	7.5	1630 x 804 x 1346	1630 x 804 x 1346	470	477
K 15-	270	10	150	1296	46.0	11.0	15.0	1770 x 806 x 1453	2097 x 806 x 1453	490	502
	250	15	220	794	28.0	11.0	15.0	1510 x 806 x 1453	2097 x 806 x 1453	510	522
	250	40	600	780	27.5	11.0	15.0	1560 x 806 x 1453	2097 x 806 x 1453	590	602

* Free air delivery according to VDMA 4362 at 80% max. pressure. Emitted sound pressure levels from 70 dB(A) according to DIN EN ISO 2151:2009
Further receiver sizes available on request.

OIL-FREE

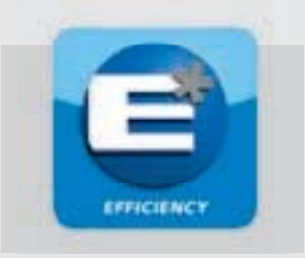
Piston compressors **ASO 260** to **ASO 480**
Compressor units **BSO 260-** to **BSO 480-**
Duplex compressor packages **BSO 260-…D** to **BSO 480-…D**

Effective free air delivery: 156 – 367 l/min, 6 – 13 cfm
Pressure range: 8 and 10 bar, 115 and 150 psig
Rated power: 1.5 – 3.2 kW, 2 – 4 HP

ASOL 260 to ASOL 480
ASO 260 to ASO 480

BSOL 260- to BSOL 480-
BSO 260- to BSO 480-

BSOL 260-…D to BSOL 480-…D
BSO 260-…D to BSO 480-…D



OIL-FREE SYSTEM
Absolutely clean and oil free compressed air is guaranteed. These compressors are also known for their operational safety and dependable supply of compressed air.

FLEXIBILITY
A modular design concept ensures that each compressor can be built to meet the specific compressed air requirements for optimum performance. For this purpose, individual components are available: e.g. receivers, dual receivers, membrane dryers or super silencing.

EFFICIENCY
Every compressor can be adapted to meet specific demand: variable pressures and outputs ensure reliable and economic operation under base and peak load conditions.

COMPRESSED AIR TREATMENT
Option: a membrane dryer can be integrated which ensures compressed air drying without condensate fallout. The dryer does not require any additional space and operates without motor and in an energy efficient manner.

Oil-free compressed air for any type of requirement: Ultimate flexibility and maximum reliability are key characteristics of these oil-free compressors. Due to their modular design the compressors can be specifically configured for the individual requirements of the customer – from variable pressures and outputs to optional components such as dual receivers or integrated membrane dryers.

BOGE Model	Flow capacity (Displacement)			Flow capacity						Compressor speed	Number of cylinders	Motor	Dimensions W x D x H	Weight
				Max. pressure 8 bar (FAD as per VDMA 4362) 6 bar			Max. pressure 10 bar (FAD as per VDMA 4362) 8 bar							
	l/min	m³/h	cfm	l/min	m³/h	cfm	l/min	m³/h	cfm	min⁻¹		kW	mm	kg
8 and 10 bar / 115 and 150 psig standard														
ASO 260	260	15.6	9	176	10.6	6	156	9.4	5.5	1450	1	1.5	765x408x582	69
ASO 370	370	22.2	13	275	16.5	10	256	15.4	9.0	1450	1	2.2	765x408x582	69
ASO 480	480	28.8	17	367	22.0	13	339	20.3	12.0	1450	1	3.2	765x408x582	70
8 and 10 bar / 115 and 150 psig super-silenced														
ASOL 260	260	15.6	9	176	10.6	6	156	9.4	5.5	1450	1	1.5	915x480x730	121
ASOL 370	370	22.2	13	275	16.5	10	256	15.4	9.0	1450	1	2.2	915x480x730	121
ASOL 480	480	28.8	17	367	22.0	13	339	20.3	12.0	1450	1	3.2	915x480x730	123

BOGE Model	Receiver volume	Flow capacity (Displacement)			Flow capacity						Compressor speed	Number of cylinders	Motor	Dimensions W x D x H	Weight
					Max. pressure 8 bar (FAD as per VDMA 4362) 6 bar			Max. pressure 10 bar (FAD as per VDMA 4362) 8 bar							
	Litres	l/min	m³/h	cfm	l/min	m³/h	cfm	l/min	m³/h	cfm	min⁻¹		kW	mm	kg
8 and 10 bar / 115 and 150 psig standard															
BSO 260-	150	260	15.6	9	176	10.6	6	156	9.4	5.5	1450	1	1.5	1425x535x1045	133
BSO 370-	150	370	22.2	13	275	16.5	10	256	15.4	9.0	1450	1	2.2	1695x535x1045	133
BSO 480-	270	480	28.8	17	367	22.0	13	339	20.3	12.0	1450	1	3.2	1470x600x1190	133
8 and 10 bar / 115 and 150 psig super-silenced															
BSOL 260-	150	260	15.6	9	176	10.6	6	156	9.4	5.5	1450	1	1.5	1425x535x1232	180
BSOL 370-	150	370	22.2	13	275	16.5	10	256	15.4	9.0	1450	1	2.2	1425x535x1232	180
BSOL 480-	270	480	28.8	17	367	22.0	13	339	20.3	12.0	1450	1	3.2	1470x600x1340	180

BOGE Model	Receiver volume	Flow capacity (Displacement)			Flow capacity						Compressor speed	Number of cylinders	Motor	Dimensions W x D x H	Weight
					Max. pressure 8 bar (FAD as per VDMA 4362) 6 bar			Max. pressure 10 bar (FAD as per VDMA 4362) 8 bar							
	Litres	l/min	m³/h	cfm	l/min	m³/h	cfm	l/min	m³/h	cfm	min⁻¹		kW	mm	kg
8 and 10 bar / 115 and 150 psig standard															
BSO 260-…D	270	2x260	2x15.6	2x 9	2x176	2x10.6	2x 6	2x156	2x 9.4	2x 5.5	2x1450	2x1	2x1.5	1825x700x1225	240
BSO 370-…D	270	2x370	2x22.2	2x13	2x275	2x16.5	2x10	2x256	2x15.4	2x 9.0	2x1450	2x1	2x2.2	1825x700x1225	240
BSO 480-…D	270	2x480	2x28.8	2x17	2x367	2x22.0	2x13	2x339	2x20.3	2x12.0	2x1450	2x1	2x3.2	1825x700x1225	240
8 and 10 bar / 115 and 150 psig super-silenced															
BSOL 260-…D	270	2x260	2x15.6	2x 9	2x176	2x10.6	2x 6	2x156	2x 9.4	2x 5.5	2x1450	2x1	2x1.5	1965x605x1340	335
BSOL 370-…D	270	2x370	2x22.2	2x13	2x275	2x16.5	2x10	2x256	2x15.4	2x 9.0	2x1450	2x1	2x2.2	1965x605x1340	335
BSOL 480-…D	270	2x480	2x28.8	2x17	2x367	2x22.0	2x13	2x339	2x20.3	2x12.0	2x1450	2x1	2x3.2	1965x605x1340	335

OIL-FREE

Compressor unit **BSO 480**
Compressor station **BSO 480 DM**

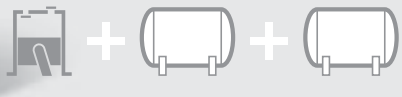
Effective free air delivery: 284 – 367 l/min, 10 – 13 cfm
Pressure range: 8 and 10 bar, 115 and 150 psig
Rated power: 3.2 kW, 4 HP

BSOL 480

BSO 480

Compressor unit **BSO**

Piston compressor
installed directly onto tandem horizontal receivers
(super-silenced version: BSOL)



BSOL 480 DM

BSO 480 DM

Compressor unit **BSO DM**

Piston compressor
installed directly onto tandem horizontal receivers
with membrane dryer
(super-silenced version: BSOL)

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BOGE Model	Receiver volume Litres	Flow capacity (Displacement) l/min	m³/h	cfm	Flow capacity Max. pressure 8 bar (FAD as per VDMA 4362) 6 bar l/min	m³/h	cfm	Max. pressure 10 bar (FAD as per VDMA 4362) 8 bar l/min	m³/h	cfm	Compressor speed min⁻¹	Number of cylinders	Motor kW	Dimensions W x D x H mm	Weight kg
8 and 10 bar / 115 and 150 psig standard															
BSO 480	2x18	480	28.8	17	367	22	13	339	20.3	12	1450	1	3.2	780x530x 930	110
8 and 10 bar / 115 and 150 psig super-silenced															
BSOL 480	2x18	480	28.8	17	367	22	13	339	20.3	12	1450	1	3.2	940x600x1230	210

BOGE Model	Receiver volume Litres	Flow capacity (Displacement) l/min	m³/h	cfm	Flow capacity Max. pressure 8 bar (FAD as per VDMA 4362) 6 bar l/min	m³/h	cfm	Max. pressure 10 bar (FAD as per VDMA 4362) 8 bar l/min	m³/h	cfm	Compressor speed min⁻¹	Number of cylinders	Motor kW	Dimensions W x D x H mm	Weight kg
8 and 10 bar / 115 and 150 psig standard															
BSO 480 DM	2x18	480	28.8	17	329	19.7	12	284	17	10	1450	1	3.2	780x535x 930	115
8 and 10 bar / 115 and 150 psig super-silenced															
BSOL 480 DM	2x18	480	28.8	17	329	19.7	12	284	17	10	1450	1	3.2	940x600x1230	215