KEES MECHIELSEN BV

BOGE AIR. THE AIR TO WORK.

BOGE
COMPRESSED AIR SYSTEMS

BOGE S series S-3

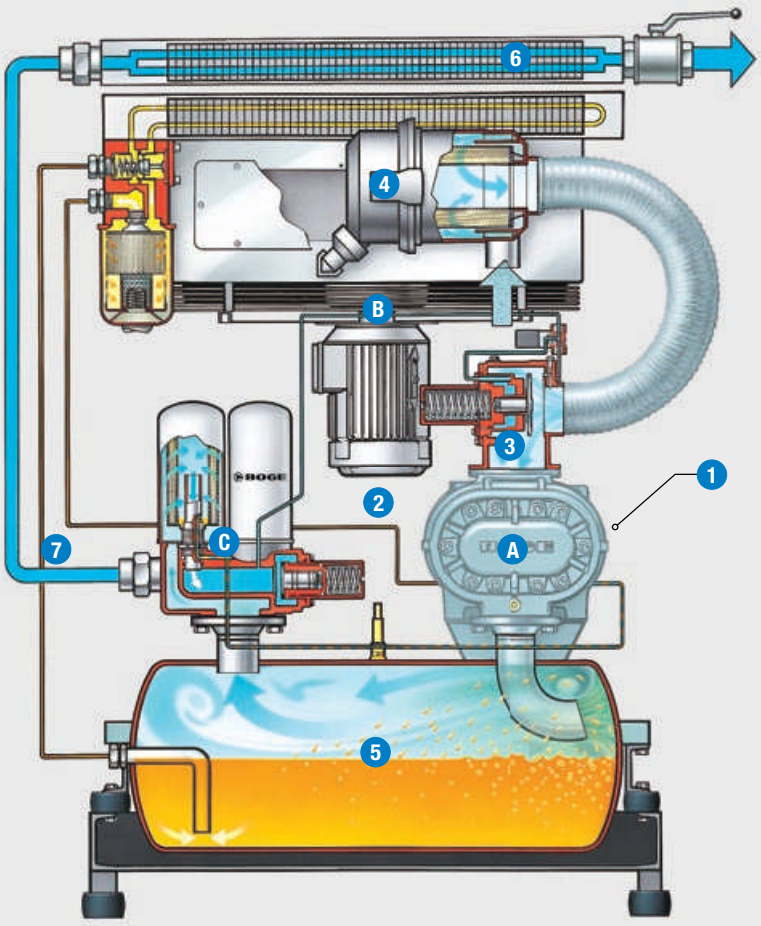
IE3 Motor
Premium Efficiency

EFFILENCE
BOGE Competence

Tel. 0115-619376 Email: info@keesmechielsen.nl Website: www.keesmechielsen.nl

Top quality has surpassed itself again:

The new generation BOGE S series.



Details of new generation:

- A New BOGE effilence airend
- B New cooling fan design
- C Optimised oil separation

Proven benefits of the BOGE S series:

1. Highly efficient IE3 motor
2. Intelligent cooling air circulation
3. Valveless oil circuit with multifunction suction regulator
4. Suction filter with micro paper element
5. Highly effective oil separation system with horizontal receiver
6. Self-sufficient cooling system with separate fan
7. Internal pipework made from steel tubing
- Integrated switch cabinet
- Maintenance-friendly design

Intelligent design provides an edge:

The BOGE S series wins you over with its sophisticated design concept, highest quality workmanship and maximum cost-efficiency. Each component is the culmination of decades of expertise by our engineers – giving it an edge is evident in everyday use.

The ideal lubricant for your BOGE S-3: BOGE SYPREM S.

The advantages:

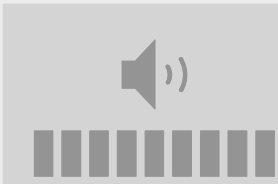
- Fully synthetic coolant and lubricant
- Reduced oil vaporisation, therefore lower consumption and oil carryover into the compressed air system
- Longer service life: changing intervals of up to 9000 operating hours can be achieved
- Viscosity index 55 for optimal temperature characteristics and wide operating temperature range
- Prevents deposits from forming, thus increases service life of compression stage and filtration media

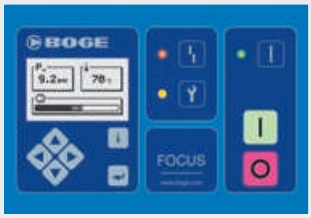
The use of BOGE SYPREM S makes it possible to increase the guarantee period to five years within the framework of the BOGE best**cair** guarantee programme. Further information is available at: **www.boge.com**.

BOGE AIR. THE AIR TO WORK.

One of the best has been improved upon: The S series has set standards in efficient and reliable compressed air production. Now, BOGE has made one of the best screw compressor ranges on the market even better. While retaining the proven design philosophy, the efficiency, smooth running properties and the sound pressure levels have been significantly optimised. You can look forward to the best S series of all time!

The depicted machine is the super-silenced version





EVEN MORE EFFICIENT

The new generation BOGE S series has the most efficient airend ever employed by BOGE – the BOGE effilence. Included as standard in every machine in the S-3 series, BOGE's effilence enhances the increased air delivery and improved oil separation system to the high level of efficiency achieved by the new compressor generation.

EVEN QUIETER

As well as the innovative BOGE effilence airend, the new designed fan makes the BOGE S-3 series quieter than ever. Its speed has been halved resulting in reduced noise levels – while the cooling air has been improved at the same time to provide a consistent cooling performance. The result speaks for itself: the quietest S series of all time!

PROVEN CONTROL

The compressor control in the standard version uses a familiar and intuitive FOCUS control which provides numerous monitoring and control features that allows connection to master control system.

PROVEN DESIGN

Irrespective of the modification incorporated, the proven design of the S series has still been retained: providing the advantages of the efficient cooling air circulation, the effective optimised oil separation system with a horizontal receiver and the premium quality of one of the most reliable screw compressors on the market.

BOGE Model	Max. pressure**		Effective free air delivery*		Motor power				Dimensions [1] silenced W x D x H	Dimensions [2] super silenced W x D x H	Com-pressed air outlet	Weight silenced	Weight super silenced
					Main drive		Fan motor						
	bar	psig	m³/min	cfm	kW	HP	kW	HP	mm	mm		kg	kg
S 31-3	7,5	110	3,99	141	22	30	0,75	1,0	1615x965x1448	–	G 1¼	750	–
S 31-3	8	115	3,87	137	22	30	0,75	1,0	1615x965x1448	–	G 1¼	750	–
S 31-3	10	150	3,40	120	22	30	0,75	1,0	1615x965x1448	–	G 1¼	750	–
S 31-3	13	190	2,70	95	22	30	0,75	1,0	1615x965x1448	–	G 1¼	750	–
S 40-3	7,5	110	5,47	193	22	40	0,75	1,0	1615x965x1448	–	G 1¼	842	–
S 40-3	8	115	5,31	187	22	40	0,75	1,0	1615x965x1448	–	G 1¼	842	–
S 40-3	10	150	4,75	168	22	40	0,75	1,0	1615x965x1448	–	G 1¼	842	–
S 40-3	13	190	4,01	142	22	40	0,75	1,0	1615x965x1448	–	G 1¼	842	–
SD 40-3	7,5	110	5,47	193	30	40	0,75	1,0	1615x965x1730	–	G 1¼	970	–
SD 40-3	8	115	5,31	187	30	40	0,75	1,0	1615x965x1730	–	G 1¼	970	–
SD 40-3	10	150	4,75	168	30	40	0,75	1,0	1615x965x1730	–	G 1¼	970	–
SD 40-3	13	190	4,01	142	30	40	0,75	1,0	1615x965x1730	–	G 1¼	970	–
S 40-3 BLUEKAT	7,5	110	5,47	193	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1100	–
S 40-3 BLUEKAT	8	115	5,31	187	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1100	–
S 40-3 BLUEKAT	10	150	4,75	168	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1100	–
S 40-3 BLUEKAT	13	190	4,01	142	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1100	–
S 50-3	7,5	110	6,67	236	37	50	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	843	873
S 50-3	8	115	6,48	229	37	50	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	843	873
S 50-3	10	150	5,80	205	37	50	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	843	873
S 50-3	13	190	4,96	175	37	50	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	843	873
SD 50-3	7,5	110	6,67	236	37	50	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	971	1001
SD 50-3	8	115	6,48	229	37	50	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	971	1001
SD 50-3	10	150	5,80	205	37	50	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	971	1001
SD 50-3	13	190	4,96	175	37	50	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	971	1001
S 50-3 BLUEKAT	7,5	110	6,67	236	37	50	1,50	2,0	2266x990x1954	–	G 1¼	1320	–
S 50-3 BLUEKAT	8	115	6,48	229	37	50	1,50	2,0	2266x990x1954	–	G 1¼	1320	–
S 50-3 BLUEKAT	10	150	5,80	205	37	50	1,50	2,0	2266x990x1954	–	G 1¼	1320	–
S 50-3 BLUEKAT	13	190	4,96	175	37	50	1,50	2,0	2266x990x1954	–	G 1¼	1320	–
S 60-3	7,5	110	7,52	266	45	60	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	994	1024
S 60-3	8	115	7,30	258	45	60	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	994	1024
S 60-3	10	150	6,53	231	45	60	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	994	1024
S 60-3	13	190	5,55	196	45	60	1,50	2,0	1615x965x1448	1615x965x1944	G 1¼	994	1024
SD 60-3	7,5	110	7,52	266	45	60	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	1122	1152
SD 60-3	8	115	7,30	258	45	60	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	1122	1152
SD 60-3	10	150	6,53	231	45	60	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	1122	1152
SD 60-3	13	190	5,55	196	45	60	1,50	2,0	1615x965x1730	1615x965x1947	G 1¼	1122	1152
SF 60-3	7,5	110	1,63–7,52	58–266	45	60	1,50	2,0	1668x990x1448	1668x990x1944	G 1¼	1057	1087
SF 60-3	8	115	1,58–7,30	56–258	45	60	1,50	2,0	1668x990x1448	1668x990x1944	G 1¼	1057	1087
SF 60-3	10	150	1,44–6,53	51–231	45	60	1,50	2,0	1668x990x1448	1668x990x1944	G 1¼	1057	1087
SF 60-3	13	190	1,19–5,55	42–196	45	60	1,50	2,0	1668x990x1448	1668x990x1944	G 1¼	1057	1087
SDF 60-3	7,5	110	1,63–7,52	58–266	45	60	1,50	2,0	1620x990x1944	1620x990x1944	G 1¼	1122	1152
SDF 60-3	8	115	1,58–7,30	56–258	45	60	1,50	2,0	1620x990x1944	1620x990x1944	G 1¼	1122	1152
SDF 60-3	10	150	1,44–6,53	51–231	45	60	1,50	2,0	1620x990x1944	1620x990x1944	G 1¼	1122	1152
SDF 60-3	13	190	1,19–5,55	42–196	45	60	1,50	2,0	1620x990x1944	1620x990x1944	G 1¼	1122	1152
S 61-3	7,5	110	8,03	284	45	60	1,50	2,0	1995x1065x1453	1995x1065x1949	G 1½	1180	1230
S 61-3	8	115	7,80	275	45	60	1,50	2,0	1995x1065x1453	1995x1065x1949	G 1½	1180	1230
S 61-3	10	150	7,00	247	45	60	1,50	2,0	1995x1065x1453	1995x1065x1949	G 1½	1180	1230
S 61-3	13	190	5,92	209	45	60	1,50	2,0	1995x1065x1453	1995x1065x1949	G 1½	1180	1230
SD 61-3	7,5	110	8,03	284	45	60	1,50	2,0	1995x1065x1949	1995x1065x1949	G 1½	1330	1380
SD 61-3	8	115	7,80	275	45	60	1,50	2,0	1995x1065x1949	1995x1065x1949	G 1½	1330	1380
SD 61-3	10	150	7,00	247	45	60	1,50	2,0	1995x1065x1949	1995x1065x1949	G 1½	1330	1380
SD 61-3	13	190	5,92	209	45	60	1,50	2,0	1995x1065x1949	1995x1065x1949	G 1½	1330	1380
S 75-3	7,5	110	10,04	355	55	75	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1260	1310
S 75-3	8	115	9,71	343	55	75	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1260	1310
S 75-3	10	150	8,47	299	55	75	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1260	1310
S 75-3	13	190	7,26	256	55	75	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1260	1310
SD 75-3	7,5	110	10,04	355	55	75	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1430	1480
SD 75-3	8	115	9,71	343	55	75	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1430	1480
SD 75-3	10	150	8,47	299	55	75	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1430	1480
SD 75-3	13	190	7,26	256	55	75	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1430	1480

BOGE Model	Max. pressure**		Effective free air delivery*		Motor power				Dimensions 1) silenced W x D x H	Dimensions 2) super silenced W x D x H	Com-pressed air outlet	Weight silenced	Weight super silenced
					Main drive		Fan motor						
	bar	psig	m³/min	cfm	kW	HP	kW	HP	mm	mm		kg	kg
S 90-3	7,5	110	11,59	409	65	90	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1328	1378
S 90-3	8	115	11,25	397	65	90	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1328	1378
S 90-3	10	150	10,01	353	65	90	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1328	1378
S 90-3	13	190	8,78	310	65	90	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1328	1378
SD 90-3	7,5	110	11,59	409	65	90	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1498	1548
SD 90-3	8	115	11,25	397	65	90	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1498	1548
SD 90-3	10	150	10,01	353	65	90	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1498	1548
SD 90-3	13	190	8,78	310	65	90	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1498	1548
S 100-3	7,5	110	13,18	465	75	100	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1358	1408
S 100-3	8	115	12,80	452	75	100	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1358	1408
S 100-3	10	150	10,95	387	75	100	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1358	1408
S 100-3	13	190	9,51	336	75	100	2,20	3,0	1995x1065x1453	1995x1065x1949	G 1½	1358	1408
SD 100-3	7,5	110	13,18	465	75	100	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1528	1578
SD 100-3	8	115	12,80	452	75	100	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1528	1578
SD 100-3	10	150	10,95	387	75	100	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1528	1578
SD 100-3	13	190	9,51	336	75	100	2,20	3,0	1995x1065x1949	1995x1065x1949	G 1½	1528	1578
SF 100-3	7,5	110	3,33–13,18	118–465	75	100	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1388	1438
SF 100-3	8	115	3,23–12,80	114–452	75	100	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1388	1438
SF 100-3	10	150	2,88–10,95	102–387	75	100	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1388	1438
SF 100-3	13	190	2,51– 9,51	89–336	75	100	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1388	1438
SDF 100-3	7,5	110	3,33–13,18	118–465	75	100	2,20	3,0	2043x1065x1949	2043x1065x1949	G 1½	1538	1588
SDF 100-3	8	115	3,23–12,80	114–452	75	100	2,20	3,0	2043x1065x1949	2043x1065x1949	G 1½	1538	1588
SDF 100-3	10	150	2,88–10,95	102–387	75	100	2,20	3,0	2043x1065x1949	2043x1065x1949	G 1½	1538	1588
SDF 100-3	13	190	2,53– 9,51	89–336	75	100	2,20	3,0	2043x1065x1949	2043x1065x1949	G 1½	1538	1588
S 101-3	7,5	110	14,38	508	75	100	2,20	3,0	2366x1315x1759	2366x1315x2257	G 2½	2047	2107
S 101-3	8	115	13,96	493	75	100	2,20	3,0	2366x1315x1759	2366x1315x2257	G 2½	2047	2107
S 101-3	10	150	12,33	403	75	100	2,20	3,0	2366x1315x1759	2366x1315x2257	G 2½	2047	2107
S 101-3	13	190	10,58	374	75	100	2,20	3,0	2366x1315x1759	2366x1315x2257	G 2½	2047	2107
SD 101-3	7,5	110	14,38	508	75	100	2,20	3,0	2366x1315x2257	2366x1315x2257	G 2½	2213	2273
SD 101-3	8	115	13,96	463	75	100	2,20	3,0	2366x1315x2257	2366x1315x2257	G 2½	2213	2273
SD 101-3	10	150	12,33	403	75	100	2,20	3,0	2366x1315x2257	2366x1315x2257	G 2½	2213	2273
SD 101-3	13	190	10,58	374	75	100	2,20	3,0	2366x1315x2257	2366x1315x2257	G 2½	2213	2273
S 125-3	7,5	110	16,17	571	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2067	2127
S 125-3	8	115	15,70	554	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2067	2127
S 125-3	10	150	14,93	484	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2067	2127
S 125-3	13	190	12,56	444	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2067	2127
SD 125-3	7,5	110	16,17	571	90	125	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2233	2293
SD 125-3	8	115	15,70	554	90	125	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2233	2293
SD 125-3	10	150	14,93	484	90	125	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2233	2293
SD 125-3	13	190	12,56	444	90	125	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2233	2293
S 150-3	7,5	110	18,95	670	110	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2132	2192
S 150-3	8	115	18,40	650	110	150	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2132	2192
S 150-3	10	150	16,30	576	110	150	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2132	2192
S 150-3	13	190	14,20	501	110	150	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2132	2192
SD 150-3	7,5	110	18,95	670	11	150	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2298	2358
SD 150-3	8	115	18,40	650	110	150	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2298	2358
SD 150-3	10	150	16,30	576	110	150	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2298	2358
SD 150-3	13	190	14,20	501	110	150	4,00	5,5	2366x1315x2257	2366x1315x2257	G 2½	2298	2358
SF 150-3	7,5	110	4,78–18,95	169–670	110	150	4,00	5,5	2414x1315x1759	2414x1315x2257	G 2½	2200	2260
SF 150-3	8	115	4,64–18,40	164–650	110	150	4,00	5,5	2414x1315x1759	2414x1315x2257	G 2½	2200	2260
SF 150-3	10	150	4,27–16,30	151–576	110	150	4,00	5,5	2414x1315x1759	2414x1315x2257	G 2½	2200	2260
SF 150-3	13	190	3,39–14,20	120–501	110	150	4,00	5,5	2414x1315x1759	2414x1315x2257	G 2½	2200	2260
SDF 150-3	7,5	110	4,78–18,95	169–670	11	150	4,00	5,5	2414x1315x2257	2414x1315x2257	G 2½	2366	2426
SDF 150-3	8	115	4,64–18,40	164–650	110	150	4,00	5,5	2414x1315x2257	2414x1315x2257	G 2½	2366	2426
SDF 150-3	10	150	4,27–16,30	151–576	110	150	4,00	5,5	2414x1315x2257	2414x1315x2257	G 2½	2366	2426
SDF 150-3	13	190	3,39–14,20	120–501	110	150	4,00	5,5	2414x1315x2257	2414x1315x2257	G 2½	2366	2426

* Free air delivery for the complete package in accordance with ISO 1217, Appendix E, at 20°C ambient temperature and maximum pressure. Emitted sound pressure values from 64 dB(A) according to DIN EN ISO 2151:2009

** Max. pressure of the compressor, the 7.5 bar indications are to be provided as reference values. The machines are shipped standard in 8 bar.

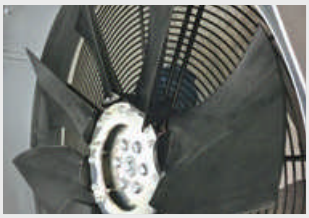
1) super-silenced on the intake side 2) super-silenced on the intake and on the exhaust air side

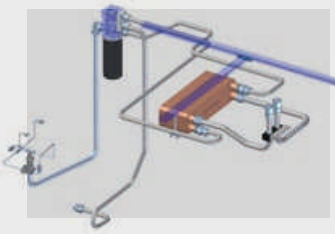
KEES MECHIELSEN BV

Efficiency on a large scale:
The **BOGE SLF**.

Effective FAD: 1,20 – 35,74 m³/min, 42 – 1262 cfm
Pressure range: 7,5 – 13 bar, 110 – 190 psig
Rated power: 22 – 200 kW, 30 – 270 HP

Frequency control drive and cooling fan + integrated heat recovery: Your extra bonus in efficiency.





ABSOLUTELY DEMAND-ORIENTED

The frequency converter is primarily integrated to control motor and airend speeds in order to produce the momentary air demand requirement at the required pressure.

MAXIMUM EFFICIENCY

Frequency control is ideal where shift/production patterns create a fluctuating demand for compressed air or where there is a small storage volume or in a multiple installation for peak load operation. Built in frequency control continuously adjusts the volume flow to the actual demand ensuring minimised idling times and pressure fluctuations providing an energy efficient solution.

INTELLIGENT FAN CONTROL

From the S 61-3 up we offer variable cooling air flow via frequency-controlled fan as an option. It ensures that it only ever works as hard as necessary. These machines achieve a significant efficiency advantage.

HIGH EFFICIENCY

The centrepiece of the integrated DUOTHERM BPT heat exchanger is a plate heat exchanger through which passes hot oil around +85 °C from the oil circuit. The counter-flow water passing through the heat exchanger is heated up to around +70 °C – and can then be used as heating or production water.

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Operating within the specific optimal range: In combination with the direct drive and frequency control, the SLF machines provide an extremely flexible system that adapts spontaneously to changes in the compressed air demand. If the pressure value changes, the air delivery is also synchronised automatically! This means that the machine supplies only the precise amount of compressed air that is actually needed at the time.

BOGE Model***	Max. pressure**		Effective free air delivery*		Motor power				Dimensions [1] silenced W x D x H	Dimensions [2] super silenced W x D x H	Compressed air outlet	Weight silenced	Weight super silenced
					Main drive		Fan motor						
	bar	psig	m³/min	cfm	kW	HP	kW	HP	mm	mm		kg	kg
SLF 30-3	7,5	110	1,24–3,99	44–141	22	30	0,75	1,0	1880x990x1448	–	G 1¼	775	–
SLF 30-3	8	115	1,20–3,87	42–137	22	30	0,75	1,0	1880x990x1448	–	G 1¼	775	–
SLF 30-3	10	150	on request	on request	22	30	0,75	1,0	1880x990x1448	–	G 1¼	775	–
SLF 30-3	13	190	on request	on request	22	30	0,75	1,0	1880x990x1448	–	G 1¼	775	–
SLDF 30-3	7,5	110	1,24–3,99	44–141	22	30	0,75	1,0	1880x990x1730	–	G 1¼	899	–
SLDF 30-3	8	115	1,20–3,87	42–137	22	30	0,75	1,0	1880x990x1730	–	G 1¼	899	–
SLDF 30-3	10	150	on request	on request	22	30	0,75	1,0	1880x990x1730	–	G 1¼	899	–
SLDF 30-3	13	190	on request	on request	22	30	0,75	1,0	1880x990x1730	–	G 1¼	899	–
SLF 40-3	7,5	110	1,34–5,47	47–193	30	40	0,75	1,0	1880x990x1730	–	G 1¼	845	–
SLF 40-3	8	115	1,30–5,31	46–187	30	40	0,75	1,0	1880x990x1730	–	G 1¼	845	–
SLF 40-3	10	150	1,30–4,75	46–168	30	40	0,75	1,0	1880x990x1730	–	G 1¼	845	–
SLF 40-3	13	190	on request	on request	30	40	0,75	1,0	1880x990x1730	–	G 1¼	845	–
SLDF 40-3	7,5	110	1,34–5,47	47–193	30	40	0,75	1,0	1880x990x1730	–	G 1¼	1055	–
SLDF 40-3	8	115	1,30–5,31	46–187	30	40	0,75	1,0	1880x990x1730	–	G 1¼	1055	–
SLDF 40-3	10	150	1,30–4,75	46–168	30	40	0,75	1,0	1880x990x1730	–	G 1¼	1055	–
SLDF 40-3	13	190	on request	on request	30	40	0,75	1,0	1880x990x1730	–	G 1¼	1055	–
SLF 40-3 BLUEKAT	7,5	110	1,34–5,47	47–193	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1171	–
SLF 40-3 BLUEKAT	8	115	1,30–5,31	46–187	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1171	–
SLF 40-3 BLUEKAT	10	150	1,30–4,75	46–168	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1171	–
SLF 40-3 BLUEKAT	13	190	on request	on request	30	40	0,75	1,0	2266x990x1954	–	G 1¼	1171	–
SLF 51-3	7,5	110	2,32–7,26	82–256	37	50	1,10	1,5	2043x1065x1453	2043x1065x1949	G 1¼	1250	1300
SLF 51-3	8	115	2,25–7,02	80–248	37	50	1,10	1,5	2043x1065x1453	2043x1065x1949	G 1¼	1250	1300
SLF 51-3	10	150	2,15–6,20	76–219	37	50	1,10	1,5	2043x1065x1453	2043x1065x1949	G 1¼	1250	1300
SLF 51-3	13	190	on request	on request	37	50	1,10	1,5	2043x1065x1453	2043x1065x1949	G 1¼	1250	1300
SLF 61-3	7,5	110	2,52–8,03	89 –284	45	60	1,50	2,0	2043x1065x1453	2043x1065x1949	G 1½	1380	1430
SLF 61-3	8	115	2,45–7,80	87–275	45	60	1,50	2,0	2043x1065x1453	2043x1065x1949	G 1½	1380	1430
SLF 61-3	10	150	2,38–7,00	84–247	45	60	1,50	2,0	2043x1065x1453	2043x1065x1949	G 1½	1380	1430
SLF 61-3	13	190	on request	on request	45	60	1,50	2,0	2043x1065x1453	2043x1065x1949	G 1½	1380	1430
SLF 75-3	7,5	110	2,21–10,04	78 – 355	55	75	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1498	1548
SLF 75-3	8	115	2,15 – 9,75	76 – 344	55	75	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1498	1548
SLF 75-3	10	150	2,10 – 8,47	74 – 299	55	75	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1498	1548
SLF 75-3	13	190	on request	on request	55	75	2,20	3,0	2043x1065x1453	2043x1065x1949	G 1½	1498	1548
SLF 101-3	7,5	110	4,35–14,38	154–508	75	100	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2112	2172
SLF 101-3	8	115	4,22–13,96	149–493	75	100	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2112	2172
SLF 101-3	10	150	4,16–12,33	147–435	75	100	4,20	5,5	2366x1315x1759	2366x1315x2257	G 2½	2112	2172
SLF 101-3	13	190	on request	on request	75	100	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2112	2172
SLF 125-3	7,5	110	4,35–16,17	154–571	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2162	2222
SLF 125-3	8	115	4,22–15,78	149–554	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2162	2222
SLF 125-3	10	150	4,16–14,93	147–527	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2162	2222
SLF 125-3	13	190	on request	on request	90	125	4,00	5,5	2366x1315x1759	2366x1315x2257	G 2½	2162	2222
SLF 221	7,5	110	6,65–29,06	235–1026	160	220	4,00	5,5	3145x1910x2145	3145x1910x2645	DN 100	4500	4600
SLF 221	8	115	6,46–28,21	228– 996	160	220	4,00	5,5	3145x1910x2145	3145x1910x2645	DN 100	4500	4600
SLF 221	10	150	6,18–25,06	218– 885	160	220	4,00	5,5	3145x1910x2145	3145x1910x2645	DN 100	4500	4600
SLF 221	13	190	5,46–20,36	193– 719	160	220	4,00	5,5	3145x1910x2145	3145x1910x2645	DN 100	4500	4600
SLF 271	7,5	110	6,65–35,74	235–1262	200	270	7,50	10,0	3145x1910x2145	3145x1910x2645	DN 100	4700	4800
SLF 271	8	115	6,46–34,70	228–1225	200	270	7,50	10,0	3145x1910x2145	3145x1910x2645	DN 100	4700	4800
SLF 271	10	150	6,18–30,50	218–1077	200	270	7,50	10,0	3145x1910x2145	3145x1910x2645	DN 100	4700	4800
SLF 271	13	190	5,46–24,70	193– 872	200	270	7,50	10,0	3145x1910x2145	3145x1910x2645	DN 100	4700	4800

* Free air delivery for the complete package in accordance with ISO 1217, Appendix E, at 20°C ambient temperature and maximum pressure. Emitted sound pressure values from 64 dB(A) according to DIN EN ISO 2151:2009

** Max. pressure of the compressor, the 7.5 bar indications are to be provided as reference values. The machines are shipped standard in 8 bar.

*** The SLF 221 and 271 machines belong to the S-2 series

[1] super-silenced on the intake side, [2] super-silenced on the intake and on the exhaust air side

BOGE
COMPRESSED AIR SYSTEMS

The new premium airend from BOGE: BOGE effilence is the most efficient airend ever employed by BOGE. Its name stands for two of its hallmarks: efficient compression (efficiency) and incomparably quiet operation (silence).
This wholly BOGE developed and built airend will guarantee highest standard state-of-the-art technology: take advantage now of a new level of efficiency!

EFFILENCE

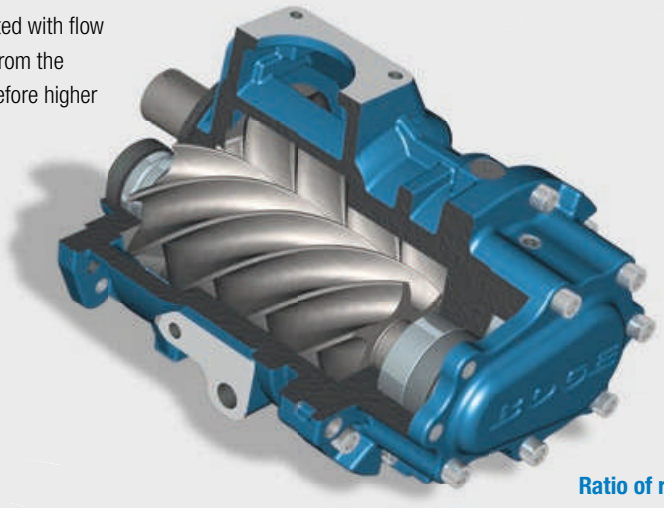
BOGE effilence: The design benefits.

Extremely small blow hole
The very small radius of the secondary rotor teeth means that the blow hole is very small, thus ensuring high efficiency.

Flow-optimized outlet shape
The design is optimised for outlet pressures from 8 to 9 bar. This prevents overcompression and backflow that causes high losses.

Large bearings
The high-quality bearings have been selected in the largest possible size. This leads to a calculated service life twice as long as previous models.*

Axial suction
An axial suction that has been calculated with flow simulation software takes place right from the BS 102: for maximum intake and therefore higher volumetric efficiency.



5:6 profile
The 5:6 screw profile of the rotors developed by BOGE (5 teeth primary rotor, 6 teeth secondary rotor) ensures low differential pressure between the chambers and therefore only minimal flow rate losses. Due to the innovative profile geometry with low leakage between the rotors, the blow hole is extremely small, ensuring a high volumetric efficiency.

Circumferential speeds
The speed design point has been optimised and is clearly lower when compared to previous stages. As a result, efficiency losses caused by splashing are reduced. The stages do not only offer a quieter operation, but also increased running-life, as the bearing service life depends on the size as well as on the rotations performed.

Ratio of rotor length to rotor diameter
The rotor profile is optimally designed to achieve the ideal ratio of internal compression combined with the minimum rotor deflection.

Very small manufacturing tolerances
Due to the low tolerances the stage has a long service life, is efficient and quiet. Efficiency losses through gap and blow hole are minimized; the rattling noise through backlash, particularly during no-load times, do not occur any more.

Oil injection
The oil injection is designed for an optimum cooling effect and minimum splash losses.

*BOGE recommends checking the condition of the bearing using vibration diagnosis after 35000 hours as part of a proactive maintenance.

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