



Saving energy and space: SLF/SLDF with integrated frequency control

Effective FAD: 1.06 – 28.21 m³/min; 37 – 996 cfm

Pressure range: 8 – 13 bar; 115 – 190 psig

Rated power: 22 – 160 kW; 30 – 220 HP



With radial fan (optional).



High output with total control: SLF/SLDF series

Adjusting the motor speed to fulfill the varying free air delivery requirements is the most efficient operating method when the system has considerable fluctuations, limited air receiver capacity or when the compressor is operating as peak load compressor.

Advantages of frequency control:

- Smooth starting and stopping within seconds
- Continuous volume flow control from 25 to 100%
- Flexible adaptation of free air delivery
- Reduced costs for wearing parts and maintenance
- No start-up current peaks (energy saving!)
- Constant net pressure +/- 0.1 bar (energy saving!)
- Almost no idle operation (energy saving!)

SLF/SLDF

- Matches demand perfectly
- Controls pressure precisely
- Optional radial fan or super-silencing for significant sound pressure reduction
- Option with integral refrigerant dryer: the ultimate energy saving, space saving solution.



The frequency convertor with its built in control is integrated neatly into the existing electrical cabinet.

The BOGE SLF/SLDF series combines a direct coupled drive system with frequency control to provide the ultimate compressor for pressure control under variable output requirements.

In this direct coupled series the frequency convertor assures the smoothest possible transition from 25-100% to maintain pressure and output perfectly.

An energy efficient RATIO control is also a standard feature of the SLF/SLDF series. The respective operating conditions are clearly and precisely visible via an LCD display.

The SLF series operates the airend within its optimum range and by changing the speed of both motor and rotor the compressed air output adapts to the actual

demand. Expensive idling times and motor switches are avoided. At the same time a tighter pressure band can be set, also helping to save energy.

Synchronisation of pressure value and free air delivery: Economical due to flexibility

Special Feature:

By adjusting the airend speed utilising frequency regulation not only adjusts the output (FAD) but can also adjust the pressure (bar).

The SLF machines can therefore operate at 8, 10 or 13 bar pressure without compromising free air delivered.

To regulate a normal 13 bar compressor to 8 bar reduces the pressure but the output remains at the 13 bar design figure.

The direct driven SLF, utilises frequency regulation in order to maximise FAD output whether at 8, 10 or 13 bar!



BOGE Type	Max. pressure		Effective free air delivery*		Motor power		Dimensions silenced	Dimensions super-silenced with radial fan	Compressed air outlet	Weight silenced / with radial fan kg	Weight super-silenced kg
	bar	psig	m ³ /min	cfm	kW	HP	W x D x H (mm)	W x D x H (mm)			
SLF 30	8	115	1.06- 3.87	37-137	22	30	1830 x 966 x 1444	1830 x 966 x 1944	G 1 1/4	700/ 730	730
	10	150	1.06- 3.30	37-117	22	30	1830 x 966 x 1444	1830 x 966 x 1944	G 1 1/4	700/ 730	730
	13	190	1.06- 2.68	37- 95	22	30	1830 x 960 x 1444	1830 x 966 x 1944	G 1 1/4	700/ 730	730
SLF 40	8	115	1.06- 5.05	37-178	30	40	1830 x 966 x 1444	1830 x 966 x 1944	G 1 1/4	770/ 805	810
	10	150	1.06- 4.53	37-160	30	40	1830 x 966 x 1444	1830 x 966 x 1944	G 1 1/4	770/ 805	810
	13	190	1.06- 3.82	37-135	30	40	1830 x 966 x 1444	1830 x 966 x 1944	G 1 1/4	770/ 805	810
SLF 51	8	115	1.51- 6.71	53-237	37	50	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/4	1020/1070	1070
	10	150	1.47- 6.04	52-213	37	50	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/4	1020/1070	1070
	13	190	1.37- 4.98	48-176	37	50	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/4	1020/1070	1070
SLF 61	8	115	1.55- 7.87	55-278	45	60	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/2	1150/1200	1200
	10	150	1.51- 6.92	53-244	45	60	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/2	1150/1200	1200
	13	190	1.42- 5.90	50-208	45	60	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/2	1150/1200	1200
SLF 75	8	115	1.55- 9.33	55-329	55	75	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/2	1270/1320	1320
	10	150	1.51- 8.40	53-297	55	75	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/2	1270/1320	1320
	13	190	1.46- 7.26	52-256	55	75	2040 x 1090 x 1450	2040 x 1090 x 1950/2060	G 1 1/2	1270/1320	1320
SLF 101	8	115	4.22-13.64	149-482	75	100	2415 x 1335 x 1750	2415 x 1335 x 2250	G 2 1/2	2200/ -	2260
	10	150	4.16-12.33	147-435	75	100	2415 x 1335 x 1750	2415 x 1335 x 2250	G 2 1/2	2200/ -	2260
	13	190	4.00-10.58	141-374	75	100	2415 x 1335 x 1750	2415 x 1335 x 2250	G 2 1/2	2200/ -	2260
SLF 125	8	115	4.22-15.70	149-554	90	125	2415 x 1335 x 1750	2415 x 1335 x 2250	G 2 1/2	2250/ -	2310
	10	150	4.16-14.36	147-507	90	125	2415 x 1335 x 1750	2415 x 1335 x 2250	G 2 1/2	2250/ -	2310
	13	190	4.00-12.56	141-443	90	125	2415 x 1335 x 1750	2415 x 1335 x 2250	G 2 1/2	2250/ -	2310
SLF 221	8	115	6.46-28.21	228-996	160	220	3145 x 1910 x 2145	3145 x 1910 x 2645	DN 100	4500/ -	4600
	10	150	6.18-25.06	218-885	160	220	3145 x 1910 x 2145	3145 x 1910 x 2645	DN 100	4500/ -	4600
	13	190	5.46-20.36	193-719	160	220	3145 x 1910 x 2145	3145 x 1910 x 2645	DN 100	4500/ -	4600

BOGE Type	Max. pressure		Effective free air delivery*		Motor power		Dimensions silenced	Dimensions super-silenced with radial fan	Compressed air outlet	Weight silenced / with radial fan kg	Weight super-silenced kg
	bar	psig	m ³ /min	cfm	kW	HP	W x D x H (mm)	W x D x H (mm)			
SLDF 30**	8	115	1.06-3.87	37-137	22	30	1830 x 966 x 1664	1830 x 966 x 1944	G 1 1/4	785/ -	815
	10	150	1.06-3.30	37-117	22	30	1830 x 966 x 1664	1830 x 966 x 1944	G 1 1/4	785/ -	815
	13	190	1.06-2.68	37- 95	22	30	1830 x 960 x 1664	1830 x 966 x 1944	G 1 1/4	785/ -	815
SLDF 40**	8	115	1.06-5.05	37-178	30	40	1830 x 966 x 1664	1830 x 966 x 1944	G 1 1/4	855/ -	895
	10	150	1.06-4.53	37-160	30	40	1830 x 966 x 1664	1830 x 966 x 1944	G 1 1/4	855/ -	895
	13	190	1.06-3.82	37-135	30	40	1830 x 966 x 1664	1830 x 966 x 1944	G 1 1/4	855/ -	895

* Free air delivery for complete package in accordance with ISO 1217, Appendix C, at 20°C ambient temperature and maximum pressure.

**with integral dryer

Emitted sound pressure level as per PN8NTC2.3 from **68 dB(A)**.



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- ☑ Oil-lubricated piston and screw compressors
- ☑ Compressed air purification
- ☑ Compressed air distribution and storage
- ☑ Compressed air accessories
- ☑ Compressed air service
- ☑ System control and display.

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