

# Efficiency on a large scale: The **BOGE SLF 221**.



Effective FAD: 5.46 – 28.21 m<sup>3</sup>/min, 193 – 996 cfm  
Pressure range: 8 – 13 bar, 115 – 190 psig  
Rated power: 160 kW, 220 HP



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



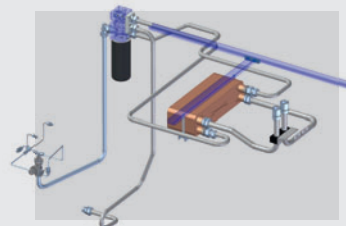
## **ABSOLUTELY DEMAND-ORIENTED**

The frequency converter is primarily integrated to control motor and aird speeds in order to produce the momentary air demand requirement at the required pressure. As an option the cooling fan can be frequency controlled ensuring it only ever works as hard as necessary.



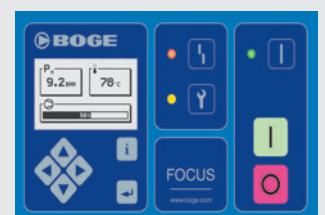
## **MAXIMUM EFFICIENCY**

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.



## **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.



## **VERSATILE CONTROL**

The convenient and user friendly FOCUS control with its numerous control and monitoring features comes as a standard on this compressor.



**Best specific working point:** The frequency controlled SLF 221 offers a very flexible system which can easily adapt to any changes in volume or pressure demands. In the event of a change of the pressure value, the output quantity is automatically synchronized. A 13 bar machine thus regulated into an 8 bar machine would yield a correspondingly higher output – without any expensive reconstruction or design related modifications. The integrated heat exchanger also provides increased efficiency – giving an extra bonus in efficiency!

**BOGE KOMPRESSOREN**

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**OVERVIEW OF THE BOGE SL(D)F 30 TO SLF 271 SCREW COMPRESSOR SERIES**

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	m³/min	cfm	kW	HP	W x D x H in mm		W x D x H in 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 966 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		
SLF 271	8	115	6.46-34.70	228-1225	200	270	3145 x 1910 x 2145	3145 x 1910 x 2645	DN 100	4700/ –	4800		
	10	150	6.18-30.50	218-1077	200	270	3145 x 1910 x 2145	3145 x 1910 x 2645	DN 100	4700/ –	4800		
	13	190	5.46-24.73	193- 873	200	270	3145 x 1910 x 2145	3145 x 1910 x 2645	DN 100	4700/ –	4800		

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	m³/min	cfm	kW	HP	W x D x H in mm		W x D x H in 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 966 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 the complete package in accordance with ISO 1217, Appendix E, at 20°C ambient temperature and maximum pressure. Emitted sound pressure values from 70dB(A) according to DIN EN ISO 2151: 2009.

\*\* Max. pressure of the compressor.