

COMPRESSORS FOR INDUSTRY

TAILORED TO YOUR REQUIREMENTS



INDUSTRY



OUR APPLICATIONS

TRUST IN BAUER QUALITY. FROM THE DESERT TO THE ARCTIC.

As one of the leading manufacturers of high-pressure compressor systems for industrial applications, we develop solutions tailored to your individual needs. From the arctic to the desert and even on the high seas, BAUER compressor systems deliver reliable performance under even the most challenging conditions, in even the harshest environments.

- › Automotive industry and component supplier
- › Oil and Gas industry
- › Gas logistics
- › Production
- › Energy sector
- › Shipping
- › Chemical industry
- › Petrochemical industry
- › Mining
- › Research facilities
- › Food industry
- › Aerospace industry



DRIVE SYSTEM

V-BELT DRIVE

The low-maintenance V-belt drive enables the compressor block speed to be optimised regardless of the network frequency and motor type.

The compressor can be set up in vertical or horizontal format. V-belt tension is ensured by the weight of the motor in vertical format (MINI-VERTICUS, VERTICUS) and by belt tensioners in horizontal format (K 22 - K 28).

Compressor series with V-belt drive

- › MINI-VERTICUS
- › VERTICUS
- › K 22 - K 28
- › BK 23



Interior view of VERTICUS: Adjustment of the v-belt is not necessary because of the vertical format and suspended motor mounting.

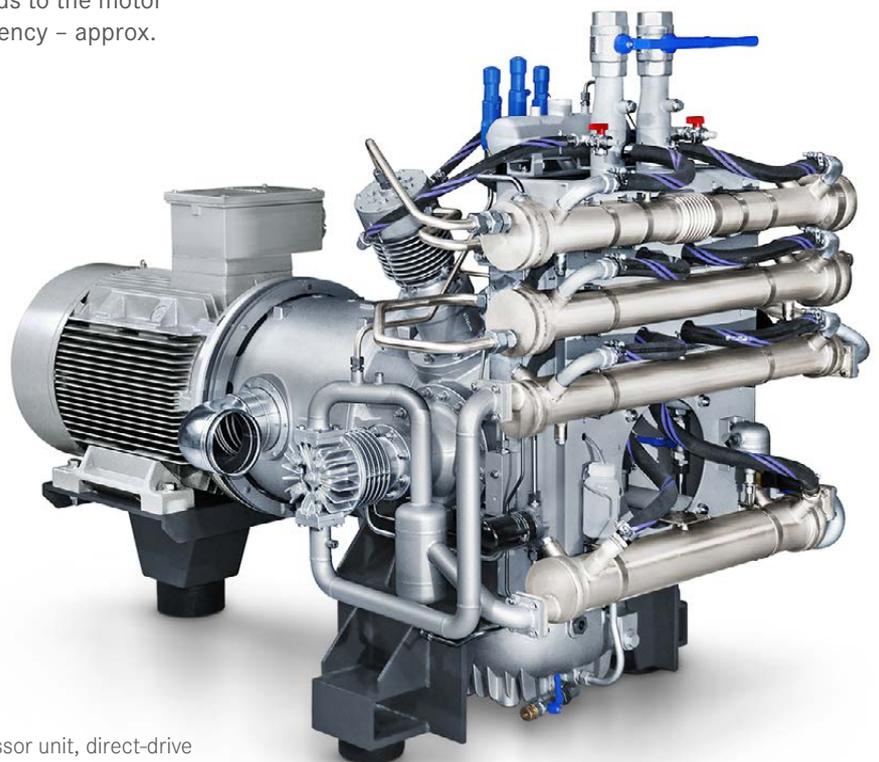
DIRECT DRIVE

The motor and compressor block are connected by an elastic coupling.

The speed of the compressor block corresponds to the motor speed and thus depends on the network frequency – approx. 1485 rpm at 50 Hz.

Direct-drive compressor series

- › DS Series
- › BK 24 - BK 52



GIB 26 Compressor unit, direct-drive

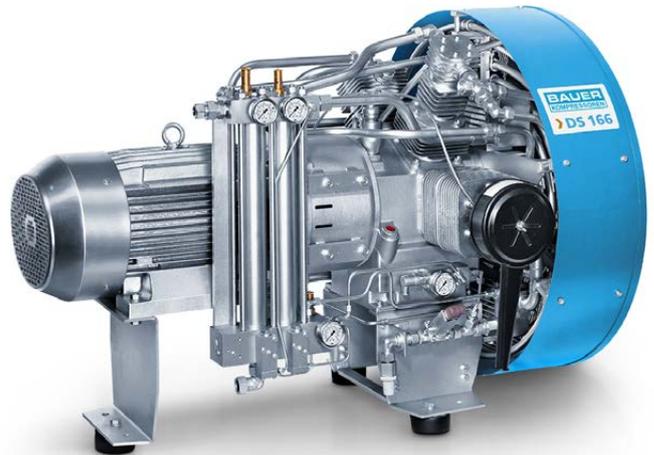
DS SERIES

FOR HEAVY-DUTY OPERATION IN MARINE APPLICATION

The air-cooled direct-coupled compressors in the DS series meet the traditionally very challenging requirements encountered in industrial and marine applications.

Used all over the world in professional environments to generate the starting air for ships' engines, they offer an impressive range of features: Excellent power reserves, a very low centre of gravity and compact dimensions, optimised for space-saving installation in machine and equipment rooms.

- › **4 - 45 kW**
- › **200 - 3020 l/min**
- › **35 - 40 bar**



DS 166 compressor unit

FEATURES

- › **Direct-coupled medium-pressure compressors for marine applications: ideally dimensioned for installation in ships where performance requirements are very high**
- › **Choose electric or diesel drive: designed and developed for a wide variety of applications in the fields of marine and industry.**
- › **Low centre of gravity, conventional control: ideal for broad universal use and long-term service**
- › **Compact dimensions: the space-saving, low-maintenance and reliable solution – even for small machine rooms**

EQUIPMENT OPTIONS

- › Compressor control CMC
- › Temperature monitoring
- › Compressor heating device
- › Condensate collection vessel

TECHNICAL DATA

AIR COOLED COMPRESSOR UNITS

35 - 40 BAR



Model	F.A.D. ¹			Frequency	Max. operating pressure ²		No. of stages	Speed	Motor-power	Power-consumption ¹	Net weight approx.	
	l/min	m ³ /h	cfm		Hz	bar					psig	rpm
DS RANGE, 35 - 40 bar												
DS 14-4	200	12	7	50	40	580	2	1440	4	3.3	200	440
	230	13.8	8	60	40	580	2	1720	4.4	3.9	200	440
DS 17-4	245	14.7	8.6	50	40	580	2	1440	4	3.7	200	440
	280	16.8	9.8	60	40	580	2	1720	4.4	4.4	200	440
DS 35-10	500	30	17.6	50	40	580	2	1450	7.5	7.5	350	770
	575	34.5	20.2	60	40	580	2	1740	11	9	350	770
DS 70-18.5	990	594	34.8	50	35	500	2	1440	15	15	710	1565
	1140	68.4	40	60	35	500	2	1720	20	18	745	1640
DS 76-18.5	1100	66	38.6	50	40	580	3	1450	18.5	17	660	1455
	1265	76	44.4	60	40	580	3	1740	20.4	20	660	1455
DS 166-37	2400	144	85	50	40	580	3	1470	37	31	805	1775
	2760	166	97	60	40	580	3	1760	41	37	805	1775
DS 181-45	3020	181	107	50	40	580	3	1470	45	40	825	1820
	--	--	--	60	40	580	3	--	--	--	825	1820

30 - 68 BAR



Model	F.A.D. ¹			Max. operating pressure ²	No. of stages	Speed	Motor-power	Power-consumption ¹	Net weight approx.		
	l/min	m ³ /h	cfm						bar	psig	rpm
MINI-VERTICUS, 215 l/min, 30 - 68 bar											
B 12.4-4-MV	215	13	7.6	68	1000	3	1420	4	3.5	250	550
K 22 - K 28 SERIES, 670 - 6800 l/min, 30 - 63 bar											
B 22.5-11	670	40	24	68	1000	3	920	11	10	450	1000
B 22.5-15	950	57	34	68	1000	3	1310	15	14	460	1010
B 23.4-22	1350	81	48	68	1000	3	920	22	20	670	1470
B 23.4-30	1730	104	61	68	1000	3	1200	30	26	740	1630
B 25.4-37	2400	144	85	68	1000	3	1070	37	36	1430	3150
B 25.4-45	2850	171	100	68	1000	3	1270	45	43	1460	3210
B 28.2-55	3400	204	120	68	1000	3	1050	55	51	1500	3300
B 28.3-90	5900	354	208	68	1000	3	940	90	88	2160	4750
B 28.3-110	6800	408	240	68	1000	3	1050	110	102	2330	5130

¹ Volume flow rate according to ISO 1217; power consumption at max. final pressure under defined framework conditions. Different ambient conditions will result in differing performance values

² Maximum allowable working pressure = max. setting safety valve; final pressure (shut-down pressure) lower.

ACCEPTANCE AND SERVICES

MANUFACTURING IS ONLY PART OF WHAT WE DO

ISO 9001 CERTIFICATION

- › BAUER assures consistent maximum product quality by applying extensive quality control measures during and after production in line with DIN EN ISO 9001.

ACCEPTANCE TESTING

- › A factory acceptance test or site acceptance test in the presence of the customer or certifying body can be performed in addition to the standard BAUER final test. Many BAUER compressors can also be produced in compliance with other standards, e.g. according to ASME, KHK etc.

PACKING & PROTECTION

- › Our compressors are packed ex works for transport by truck or air freight. We offer appropriate packing designs tailored for shipping, transport to tropical regions or long storage periods.

INSTALLATION

- › Professional installation is a vital basic factor in safe operation of high-pressure systems. Our global network of branches and qualified partners provides smooth, trouble-free support in planning and implementation, wherever you are.

COMMISSIONING

- › When installation is completed, BAUER's expert staff check and confirm the system functions correctly during commissioning. Detailed operator training is naturally an integral part and lays the foundations for optimum system use – which is later reflected in lower operating costs, and thus higher value added.

TRAINING

- › To ensure your staff are always up-to-date, we provide a comprehensive range of practical training courses for our customers, where users and operators can benefit directly from our expertise.



**INTERESTED IN OUR
PRODUCTS?**

**CONTACT US – WE ARE HAPPY TO
PROVIDE INFORMATION AND ASSISTANCE.**

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Subject to technical change without notice