BAUER KOMPRESSOREN

THE AIR-COOLED INDUSTRIAL RANGE

Efficient compressor systems for air and gases

- **30 – 500 bar**
- **39 – 408 m³/h**

- AIR-COOLED
- V-BELT DRIVEN
- FOR AIR, NITROGEN, AND RARE GASES

Companies that rely on absolute operating safety and investment security in their inspection or production processes have confidence in 65 years of BAUER-experience in High-Pressure Systems Technology.

Whatever application you want to realize with medium or high pressure air or nitrogen, BAUER will support you in every respect. Our service includes project planning, installation of complete turn-key systems, certifications of all kinds and, of course, a reliable after sales service as well as a guaranteed spare parts supply for decades - worldwide.

The unit ranges K 22 to K 28

For more than 65 years, BAUER KOMPRESSOREN as a specialist provider has offered complete turn-key compressor systems in the high and medium pressure range. Owing to the modular construction and innumerable configuration possibilities, the systems from BAUER can be perfectly adapted to nearly every customer requirement and enlarged later as required.

Comprehensive standard equipment

- Air-cooled compressor block with force-feed lubrication, interstage and after coolers, interstage separators after each stage, final oil and water separator.
- Final pressure safety valve, pressure maintaining and check valve.
- Automatic condensate drain device with unloaded start and 40 liter condensate collecting system.
- V-belt drive with energy-efficient electric motor in accordance with IE2 standard.
- All components mounted on a common base frame with shock absorbers for free-standing installation.
- Fully automatic and programmable compressor control B-CONTROL MICRO or B-CONTROL II.
- Ease of maintenance, best access and user friendliness are all integral to the machine design.
- BAUER compressor units are delivered to the customer completely tested and ready for operation.

K 22 unit

K 23 unit

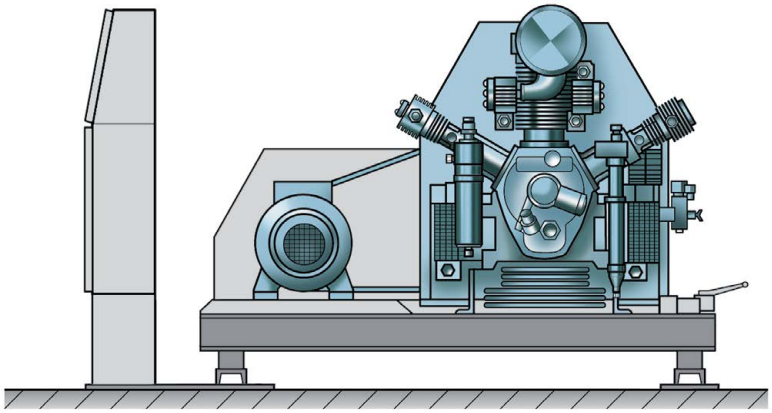
Optional

- The Super Silent Version includes a noise abating closed cabinet.
- The B-MESSENGER transfers information from the B-CONTROL II to the customer.
- Gas intake line is required if nitrogen is supposed to be compressed.[1]

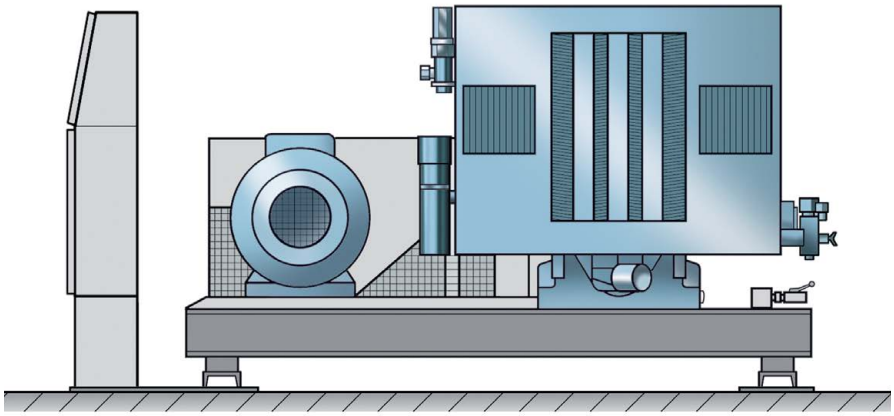
1 consisting of: particle filter, non-retun-/solenoid valve, sensors for intake pressure

K 25 unit

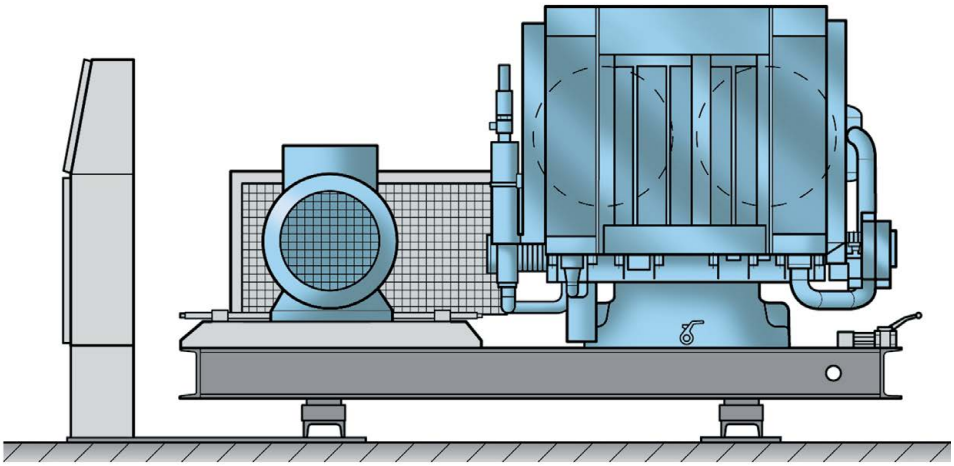
Dimensions and configurations



K 22 range
Dimensions in mm (approx.):
Length: 2140 Width: 720 Heigth: 1250



K 23 range
Dimensions in mm (approx.):
Length: 2260 Width: 865 Heigth: 1315



K 25/28 range
Dimensions in mm (approx.):
Length: 3020 Width: 1300 Heigth: 1525

BAUER system technology - safe and economical

Simple operation and low maintenance costs can only be achieved through intelligent unit design. The engineering team at the BAUER Research and Development Center strives to ensure that BAUER stays at the forefront of technology.

Our product portfolio includes a complete range of machines to suit standard applications and is complimented by our ability to design and construct special compressor units for customer defined applications.

K 22 super silent unit

- Maximum space saving through compact design. All BAUER components are mounted on a common base frame to ensure premium space saving.
- Smooth operation for maximum machine life. Considerable time and engineering goes into the design of the generously dimensioned shock absorbers and rigid base frames that are fitted to BAUER compressors to guarantee minimal vibration. This minimizes the effect on the environment and assures maximum machine life with greatly reduced stresses on component parts.
- Simple operation saves money. The principles behind the design of BAUER compressor units are logic and simplicity. Ease of maintenance, best access and user friendliness are all integral to the machine design. Simple operation, simple maintenance and easy adaptation to special requirements saves time and saves money.
- Ready to use with turn-key systems. BAUER compressor units are delivered to the customer completely pretested and ready for operation.[1] This ensures a quick, simple and safe commissioning.

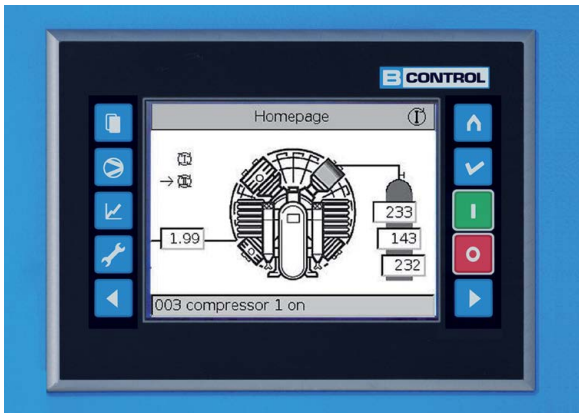
[1] As an option, a basic version is available

TOTAL CONTROL

Two different compressor controls are available for the air-cooled industrial range.

The B-CONTROL MICRO is a modern, easy-to-use control system with colour display, which controls and monitors all basic functions of the compressor.

- Fully automatic monitoring of all relevant compressor data
- 3.5“ TFT colour monitor with clear text display
- Maintenance management: Maintenance information is displayed.
- The system log stores incident history
- Password protection for various menu levels



B-CONTROL II compressor control

The B-CONTROL II is an enhanced version of the basic control B-CONTROL MICRO. In addition to controlling and monitoring the most important unit functions, the B-CONTROL II offers easy-to-use additional functions.

- The menu navigation is made simple and easy to read and use via the colour touchscreen display.
- In addition to individual, customer-specific adaptation and extension possibilities, standard interfaces such as USB, Ethernet and Modbus are available.
- The integrated function of interconnected operation allows the basic load change or indeed a duty/standby operation of up to four compressors.

B-CONTROL MICRO compressor control

OUTSTANDING QUALITY

through perfect control. BAUER ensures maximum quality by extensive quality assurance monitoring during production according to the requirements defined in DIN EN ISO 9001.

- Each single compressor block is tested in a continuous test run.
- The final unit test is done under real operating conditions.
- Each compressor unit undergoes an extensive function- and safety test.
- All units can be tailored to meet individual customer requirements.

VARIABLE USE

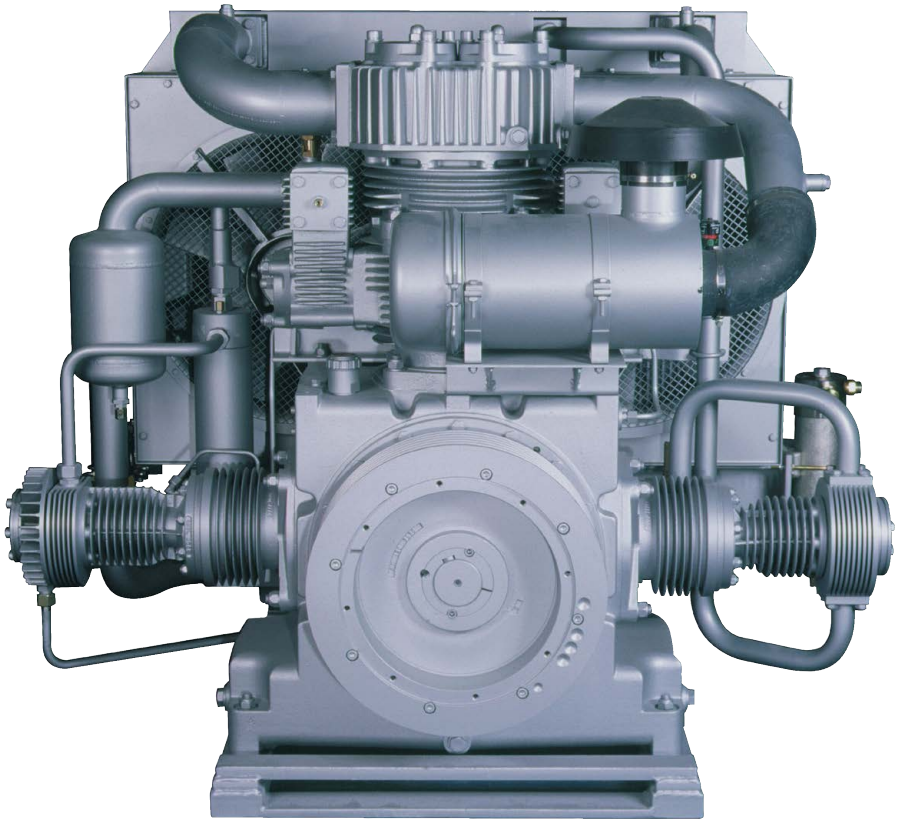
Several drive variants and containerised solutions allow for tailor-made systems for a wide variety of applications.

- In addition to electrical drives, units for mobile use can be equipped with diesel engines.
- Containerised installations for mobile or stationary use are also part of our standard program, with either electrical or diesel drive.

Heart of the unit - the air-cooled compressor blocks

More than 65 years of experience and the knowledge in our Research and Development Center are devoted to each BAUER compressor block. BAUER compressor blocks have a legendary world wide reputation for excellence due to their reliability and durability.
The BAUER reputation is well earned. Considerable time and effort is spent on the development of intelligent detailed solution machines, likewise BAUER uses premium quality materials in combination with outstanding manufacturing quality.

- The intelligent cooling system with over-sized coolers combined with large-surface ribbed cylinders ensure optimum cooling of each compression stage.
- The extremely robust industrial roller bearings are rated for continuous operation and heavy-duty operating conditions.
- An efficient forced feed lubrication system with an oil micro filter guarantees minimum wear of all moving parts.
- Low costs for maintenance and operation. Long maintenance intervals for valve checking and oil change as well as piston ring check keep the operating costs for the unit at a minimum.
- High efficiency: Optimized cylinder design and gas flow characteristics provide the BAUER compressor with absolute maximum performance at minimum power consumption.
- Trimmed for quiet running. All driving gears are dynamically balanced for a smooth and vibration-free running.



K 28 compressor block

BAUER KOMPRESSOREN

Technical Data

Model	F.A.D.[1]			Intake pressure	Final pressure		Number of stages	Speed	Motor power	Power consumption [2]	Net weight
					min	max[2]				at final pressure	approx.
	l/min	m³/h	cfm	bar (g)	bar	bar		min⁻¹	kW	kW	kg
Compressor, 30 to 63 bar											
B 22.5-11	670	40	24	0-0,1	30	63	3	920	11	10	450
B 22.5-15	950	57	34					1310	15	14	460
B 23.4-22	1350	81	48					920	22	20	670
B 23.4-30	1730	104	61					1200	30	26	740
B 25.4-37	2400	144	85					1070	37	36	1430
B 25.4-45	2850	171	100					1270	45	43	1460
B 28.2-55	3400	204	120					1050	55	51	1500
B 28.3-90	5900	354	208					940	90	88	2080
B 28.3-110	6800	408	240					1050	110	102	2330
Compressor, 64 to 75 bar											
E 22.5-15	850	51	30	0-0,1	64	75	3	1150	15	14	460
E 23.4-22	1280	77	45					920	22	20	670
E 23.4-30	1700	102	60					1200	30	27	735
E 25.4-37	2000	120	71					940	37	33	1430
E 25.4-45	2600	156	92					1200	45	42	1460
E 28.2-55	3300	198	120					1050	55	53	1500
Compressor, 75 to 90 bar											
E 22.0-11	650	39	23	0-0,1	75	90	4	900	11	10	480
E 22.0-15	800	48	28					1100	15	13	490
E 22.0-18,5	950	57	34					1300	18,5	16	510
E 25.0-30	1600	96	56					1000	30	26	1650
E 25.0-37	2000	120	71					1250	37	33	1720
E 28.0-45	2500	150	88					800	45	40	1780
E 28.0-55	3300	198	117					1050	55	53	1800
Compressor, 90 to 350 bar											
I 22.0-15	650	39	23	0-0,1	90	340	4	980	15	15	610
I 22.0-18.5	800	48	28					1180	18,5	18	670
I 22.0-22	930	56	33					1320	22	21	690
I 23.0-30	1300	78	46					1200	30	28	1000
I 23.0-37	1480	89	52					1400	37	34	1050
I 25.0-45	1900	114	67					1180	45	41	1750
I 28.0-55	2500	150	88					830	55	50	1900
I 28.0-75	3500	210	125					1180	75	72	1950
Compressor, 350 to 420 bar											
I 22.0-22-420	800	48	28	0-0,1	350	420	4	1180	22	19	690
Compressor, 350 to 500 bar											
I 25.9-45	1900	114	67	0-0,05	350	500	5	1180	45	42	1930
I 25.18-55	2300	138	81					1100	55	51	1950

[1] measured acc. to ISO 1217

[2] possibly limitations through downstream components

BAUER KOMPRESSOREN

The BAUER industrial program

BAUER KOMPRESSOREN

THE WATER-COOLED INDUSTRIAL RANGE

Energy-efficient compressor systems for air and gases

› 25 – 420 bar
› 55 – 1716 m³/h

› WATER-COOLED
› PRESSURE-RESISTANT CRANKCASES
› FOR AIR, NITROGEN, RARE GASES AND CNG

When special applications demand extreme reliability, our water-cooled industrial unit range comes into its own.
Large-dimensioned bearings and the sophisticated water cooling, in combination with the intelligently designed dry sump lubrication, minimize thermal stress and wear. For a reliable and trouble-free operation under most difficult ambient conditions.
As for example during mobile use on vehicles and ships, where inclination angles of up to 30 degrees occur.

www.bauer-kompressoren.de

BAUER KOMPRESSOREN

THE G RANGE

Compressor units for rare gases

› 25 – 350 bar
› 85 – 24.800 l/min

› FOR HELIUM AND ARGON
› AIR AND WATER-COOLED
› MEDIUM AND HIGH PRESSURE

High-performance complete system solutions for reliably compressing, purifying, storing, distributing and recovering rare gases.
The compressors from BAUER are especially modified for the treatment of rare gases. Filter systems from BAUER provide for a consistently high gas quality.
The B-CONTROL compressor control and an optional noise absorbing construction provide a high degree of user convenience. For special application conditions, BAUER also offers container solutions.

www.bauer-kompressoren.de

BAUER KOMPRESSOREN

MINI - VERTICUS III

Compact Air and Nitrogen Compressor

› 85 – 1550 l/min
› 25 – 350 bar

› SOUNDPROOF
› COMPACT AND POWERFUL

The MINI-VERTICUS III, an approved unit in a modern design, that sets new standards in technical excellence and ergonomics
The perfect unit for small rooms and industrial applications - either as a booster or compressor drawing air from the atmosphere. Designed for long life and low operating costs.

www.bauer-kompressoren.de

BAUER KOMPRESSOREN

VERTICUS 5 INDUSTRY

The Compressor System for Air and Nitrogen

› 85 – 1980 l/min
› 25 – 500 bar

› FOR MEDIUM AND HIGH PRESSURE
› PROVEN RELIABILITY
› WIDE VARIETY OF USES

The heavy duty system with excellent reliability for compressing air and nitrogen (N_2).
The BAUER B-CONTROL combines fully automatic start-stop-operation with maximum user confidence.
The optional BAUER purification systems offer high gas and air purity.
Units available in standard open or Super Silent version.

www.bauer-kompressoren.de

BAUER KOMPRESSOREN

THE P-PURIFICATION SYSTEM

For air and gas of the highest quality

› 100 – 3500 l/min
› 90 – 500 bar

› FOR PURIFICATION OF AIR, N_2 AND RARE GASES
› GENERATES PURE BREATHING AIR, INDUSTRIAL AND MEDICAL AIR

The P-purification system from BAUER ensures reliable air and gas purification for the application in question.
No matter whether you count on the purest breathing air as a diver or firefighter or if you have to trust in perfectly purified process air in the industrial field.
More than 65 years of BAUER experience in purification, intensive research and the toughest material tests guarantee outstanding quality and high safety.

www.bauer-kompressoren.de

BAUER KOMPRESSOREN

THE SECCANT RANGE

Regenerative dryer for air and gas

› 1500 – 3500 l/min
› 90 – 420 bar

› EASY INTEGRATION
› B-CONTROL COMPRESSOR CONTROL
› OPTIONAL FILTER MONITORING
› GAS-TIGHT HELIUM CONSTRUCTION

Drying air and gases economically. At high pressures and high throughput. This is the strong point of the SECCANT regenerative dryer from Bauer.
For dehumidifying and purifying air, nitrogen and rare gases, the SECCANT regenerative dryers offer a tailor-made system solution for every application.
For solutions requiring absolute continuous operation, where the processes do not permit any interruption, can also be used in combination with a bypass filter system from BAUER.
By means of an external control room, online control and online monitoring of SECCANT and the compressor unit can be implemented.

www.bauer-kompressoren.de

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TÜV SÜD ISO 9001

THE AIR-COOLED INDUSTRIAL RANGE EN
N35001
03.14
Subject to technical modifications