

THE AIR-COOLED INDUSTRIAL RANGE

Efficient compressor systems for air and gases

> 25 - 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, we 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 K22 to K28

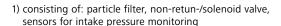
For more than 65 years, BAUER KOMPRESSOREN as a specialist provider has offered complete turn-key compressor systems in the high and medium pressure range. Owing to the modular construction and innumerable configuration possibilities, the systems from BAUER can be perfectly adapted to nearly every customer 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 IE3 standard
- All components mounted on a common base frame with shock absorbers for free-standing installation
- Fully automatic and programmable compressor control B-CONTROL II
- Gas intake line is required if nitrogen is supposed to be compressed.¹⁾
- 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.

Optional

- The Super Silent Version includes a noise abating closed cabinet.
- The B-MESSENGER transfers information from the B-CONTROL II to the customer.



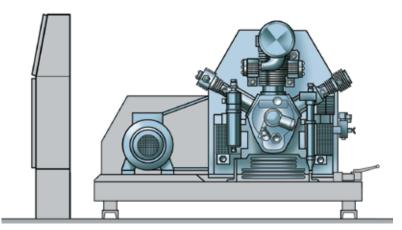






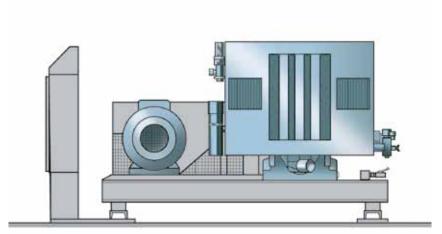


Dimensions and configurations



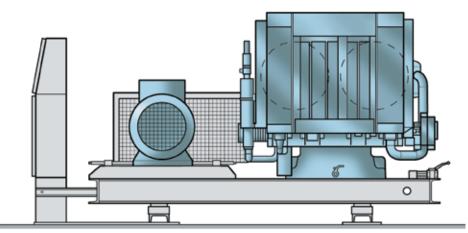
K22 range

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



K23 range

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



K25/28 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 keeps 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.



IK22 super silent unit

- Maximum space saving through compact cesign. All BAUER components are mounted on a common base frame and arranged with forethought and care to ensure space saving is at a premium.
- Smooth unit running for maximum machine life. Considerable time and engineering goes into the design of the generously dimensioned shock absorbers and rigid base frames fitted to BAUER compressors to guarantee the best possible isolation of 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. This guarantees a guick, simple and safe commissioning.



UNCOMPROMISED 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 are built to satisfy customer requirements.



B-CONTROL II compressor control



Highly efficient cooling system

VARIABLE USE

Several drive variants and container 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.
- Container installations for mobile or stationary use are also part of our standard program, alternatively with electrical or diesel drive.

TOTAL CONTROL

with B-CONTROL II. Many industrial processes require remote monitoring and fully automatic operation.

- The BAUER B-CONTROL II with clear display controls the compressor, the motor as well as the automatic condensate drain.
- Pressure and temperature monitoring of each stage ensure maximum operating safety.
- Compressor operation can be regulated via integrated final pressure sensors in the storage cylinders.
- B-CONTROL II comprises a maintenance management system. Due maintenance tasks are indicated. The operator can call up information about the current maintenance state of single components and security-relevant pressure vessels at any time.
- B-MESSENGER (optional) informs the operator via SMS, e-mail or online access about all relevant compressor data, e.g. forthcoming maintenance work or filter changes.
- The B-CONTROL II (PLC control) allows free programming acc. to customer's requirements.

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.

Our reputation has been well earned through considerable time and effort spent on the development of our machines with intelligent detailed solutions and the use of highest quality materials combined with uncompromised manufacturing quality.



BK28 comrpressor block

- Designed for continuous operation. The intelligent cooling system with over-sized coolers combined with large-surface ribbed cylinders ensure optimum cooling of each compression stage.
- The bearings in the BAUER compressor are designed and constructed for a working life of more than 30.000 operating hours. An efficient forced feed lubrication system with an oil micro filter guarantees minimum of 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 guaranteed. 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 vibrationfree running.

Technical Data

Model	F.A.D ¹⁾		Intake pressure	Final pressure		Number of stages	Speed	Motor power	Power consumption ²⁾	Net weight
				min	max²)				at final pressure	approx.
	l/min	m³/h	bar (g)	bar	bar		min ⁻¹	kW	kW	kg
Compressor, 25 to 35 bar										
A 22.5-11	800	48		25	35	3	1050	11	10	450
A 22.5-15	1000	60				3	1310	15	12,6	460
A 23.4-18,5	1450	87	0-0,1			3	980	18,5	18,2	610
A 23.4-22	1700	102				3	1150	22	21,5	670
A 25.4-30	2100	126				3	940	30	26,5	1360
A 25.4-37	2800	168				3	1200	37	35,3	1430
A 28.2-45	3400	204				3	1050	45	43	1400
A 25.5-55	4200	252				3	940	55	53	1850
A 25.5-75	5500	330				3	1200	75	70	1990
A 28.3-90	6800	408				3	1050	90	86	2160



Model	F.A.D ¹⁾		Intake pressure	Final pressure		Number of stages	Speed	Motor power	Power consumption ²⁾	Net weight
			bar (g)	_{min}	max ²⁾		min ⁻¹	kW	at final pressure	approx.
	l/min	m³/h								
Compressor, 3	30 to 63 bar	I .			1					
B 22.5-11	670	40				3	920	11	10	450
B 22.5-15	950	57	0-0,1	30	63	3	1310	15	14,2	460
B 23.4-22	1350	81				3	920	22	20	670
B 23.4-30	1730	104				3	1200	30	26	740
B 25.4-37	2400	144				3	1070	37	36	1430
B 25.4-45	2850	171				3	1270	45	43	1460
B 28.2-55	3400	204				3	1050	55	51	1500
B 25.5-75	4700	282				3	1050	75	71	1990
B 28.3-90	5900	354				3	940	90	88	2080
B 28.3-110	6800	408				3	1050	110	102	2330
Compressor, 6	54 to 75 bar	ı		I			I			
E 22.5-15	850	51		64	75	3	1150	15	13,7	460
E 23.4-22	1280	77	_			3	920	22	20	670
E 23.4-30	1700	102	0-0,1			3	1200	30	27,2	735
E 25.4-37	2000	120				3	940	37	33	1430
E 25.4-45	2600	156				3	1200	45	42	1460
E 28.2-55	3300	198				3	1050	55	53	1500
Compressor, 7	650 650	39				4	900	11	10.4	480
E 22.0-11 E 22.0-15	800	48	-	75	90	4	1100	15	10,4	490
E 22.0-18,5	950	57				4	1300	18,5	15,7	510
E 25.0-30	1600	96				4	1000	30	26	1650
E 25.0-37	2000	120	0-0,1				1250	37	33	1720
						4				
E 28.0-45	2500	150				4	800	45	40	1780
E 28.0-55	3300	198				4	1050	55	53	1800
Compressor, 9		1			1		I			
I 22.0-15	650	39		90	340	4	980	15	14,5	610
I 22.0-18.5	800	48	0-0,1			4	1180	18,5	17,9	670
I 22.0-22	930	56				4	1320	22	20,5	690
I 23.0-30	1300	78				4	1200	30	28	1000
I 23.0-37	1480	89				4	1400	37	34	1050
I 25.0-45	1900	114				4	1180	45	41	1750
I 28.0-55	2500	150				4	830	55	50	1900
I 28.0-75	3500	210				4	1180	75	72	1950
Compressor, 3		ar								
1 22.0-22-420	800	48	0-0,1	350	420	4	1180	22	19	690
Compressor, 3			0 0,1	330	720	·				
<u> </u>		1	0.005	252	500	F	1100	45	42	1020
1 25.9-45	1900	114	0-0,05	350	500	5	1180	45		1930
I 25.18-55	2300	138	0-0,05	350	500	5	1100	55	51	1950



The BAUER industrial program













BAUER KOMPRESSOREN GmbH

