

BAUER PREMIUM LINE

COMPRESSORS FOR SPORTS & SAFETY APPLICATIONS



SPORTS & SAFETY





**QUALITY IS THE BEDROCK OF
OUR BUSINESS**

FOR MORE INFORMATION

about our product programme and the products shown here,
visit our website at www.bauer-kompressoren.de

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COMPANY

BAUER – PASSIONATE ABOUT THE PERFECT SOLUTIONS.

BAUER stands for a long tradition of mechanical engineering. As early as 1888, Johann Bauer, a blacksmith in the Bavarian village of Arnstorf, founded an agricultural machinery factory. In 1946, his son Hans Bauer launched a post-war German success story. Bauer started by developing low-pressure compressors, quickly recognising the potential for novel high-pressure compression technology. Accordingly, in the 1960s, BAUER KOMPRESSOREN rose to become the global leader in the manufacture of breathing air compressors, especially in the area of scuba diving and fire fighting.

Then as now, the cornerstone of our company's success and the springboard for our global expansion are our passion for developing the best solution, in terms of both technology and costs, and our high quality standards. Today, BAUER KOMPRESSOREN operates a global network of companies and is represented by its subsidiaries in many high-growth markets where German quality is especially appreciated.

BAUER KOMPRESSOREN supplies one-stop state-of-the-art solutions tailored to your needs in the Sports & Safety sector – from compression and purification to air, breathing air and nitrox distribution.

As an essential part of equipment, pure breathing air, compressed and purified in our state of the art compressor systems, protects lives, health and property of our customers in all situations. All our employees are driven by their passion for providing 100% safety and security for people all over the world – our motivation for performance and success.

We certify pure breathing air to EN 12021:2014 standards. In addition, our BAUER PureAir Certification provides divers in particular with guidance in selecting a trustworthy filling station for pure breathing air.

Place your trust in BAUER KOMPRESSOREN and the outstanding quality and safety of the global market leader for breathing air systems.

APPLICATIONS

DIVING

Breathing air is the most important part of diving equipment – in both scuba diving and professional diving.

The safe supply of pure breathing air for the diver is therefore the top priority for BAUER KOMPRESSOREN. This applies to systems from portable breathing air compressors for private use to professional system installation in diving centres.



FIRE FIGHTING

In the event of an emergency, whether at the heart of a fire or in contaminated environments, fire fighters must be able to rely on their equipment and, above all, an absolutely reliable supply of breathing air. BAUER KOMPRESSOREN offers tailored unit concepts for fire brigades and civil protection services. Whether the unit is located at the fire station for rapid, reliable deployment a mobile unit or is on site in the rescue vehicle, our systems provide assurance. 24 hours a day – 365 days a year.



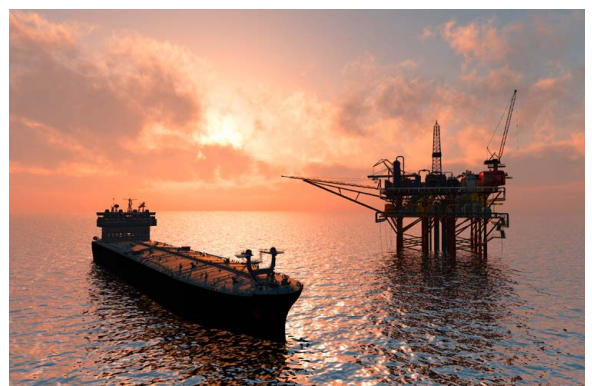
SHIPPING

Once on the high seas, ships become self-sufficient systems. Every technical device has to function reliably. Thanks to their excellent quality, systems and accessories from BAUER KOMPRESSOREN easily outperform the specified technical requirements regarding safety and reliability – and are confirmed and certified by reputable independent inspection companies including Germanischer Lloyd and DNV.



OIL & GAS INDUSTRY/ H₂S PROTECTION

To continue meeting the growing demand for natural gas and petroleum, the yield of existing oil wells must be maximised and new storage options established. BAUER KOMPRESSOREN is your reliable partner, delivering basic breathing air supplies to DIN 12021 standards for teams on oil and gas rigs and providing efficient compressed air services for escape rooms – right down to full-scale evacuation of teams.





DEFENCE

Many things we are accustomed to in our daily lives, such as navigation systems, diving equipment and tracked vehicles, were originally developed for military purposes. Whether land, sea or air applications, the products used must be absolutely reliable and safe. BAUER KOMPRESSOREN supplies individual solutions tailored to customers' needs.



Courtesy of DIVEX Ltd.

MEDICAL ENGINEERING

For treatment purposes patients are exposed to increased atmospheric pressure in pressure chambers, such as for divers following decompression accidents in order to protect them from the consequences of the 'bends'. Every second counts – as does a totally reliable provision of pure, oxygen-enriched breathing air. Hospitals use pressure chambers for hyperbaric oxygen therapy (HBOT). BAUER KOMPRESSOREN supplies the breathing air required.



PAINTBALL/SHOOTING SPORTS

Today, air guns used by sports marksmen and markers of paintball teams are powered by air from high-pressure cylinders. The precision mechanisms of this sports equipment require pure and dry compressed air, which is provided by compressors from BAUER. Our special user-friendly filling devices feed the required precisely measured quantity of air into the cartridges quickly and safely.



MOTOR SPORTS

Whether DTM or Formula 1, motor racing is a highly competitive sport where fractions of a second make all the difference – particularly in the pits, where the interplay between driver and service team can clinch victory or defeat. Throughout this fascination with speed, reliable interaction of all the high-quality elements involved is essential. Our compressor systems assure complete, reliable and precise air logistics; car jacks and tools are operated by compressed air and tailored storage solutions ensure that even in case of demand peaks, the required air quantity is always available.



PERFORMANCE OVERVIEW

OUTSTANDING COMPRESSOR SOLUTIONS TO MEET ALL YOUR NEEDS

BAUER KOMPRESSOREN filling systems ensure optimum availability and safety in reliable supply of pure breathing or compressed air for all applications, in compliance with international air quality standards such as DIN EN 12021:2014 (Breathing Air Standard).

BAUER KOMPRESSOREN produces high-pressure compressors for air, breathing air and nitrox compression, using state-of-the-art technology in outstanding quality. With decades of experience, we have gathered extensive expertise in the fields of development, production and application.

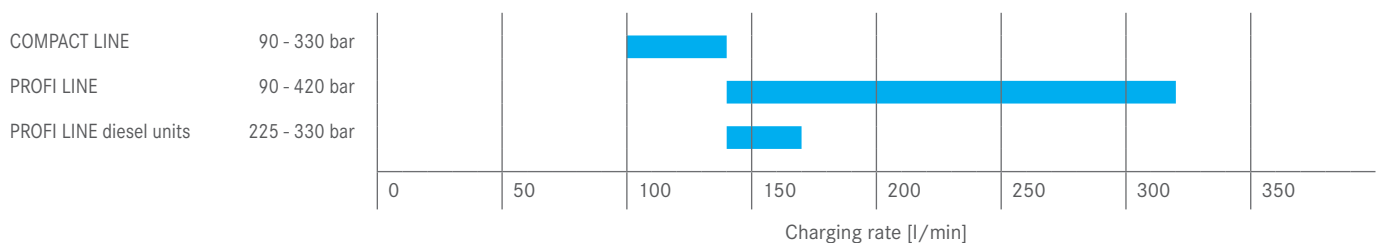
In the Sports & Safety sector, we develop and manufacture mobile compressors and compressors for stationary use, optionally supplied with sound-insulating housing. Select the high-pressure compressor with the right drive system, maximum operating pressure and required output for your needs from our extensive product range.

BAUER PREMIUM LINE breathing air compressors excel through their robustness and outstanding quality. Scores of options and the wide spectrum of different charging rates, constructions and drive variants mean that all units are individual and can thus be aligned to almost any application.

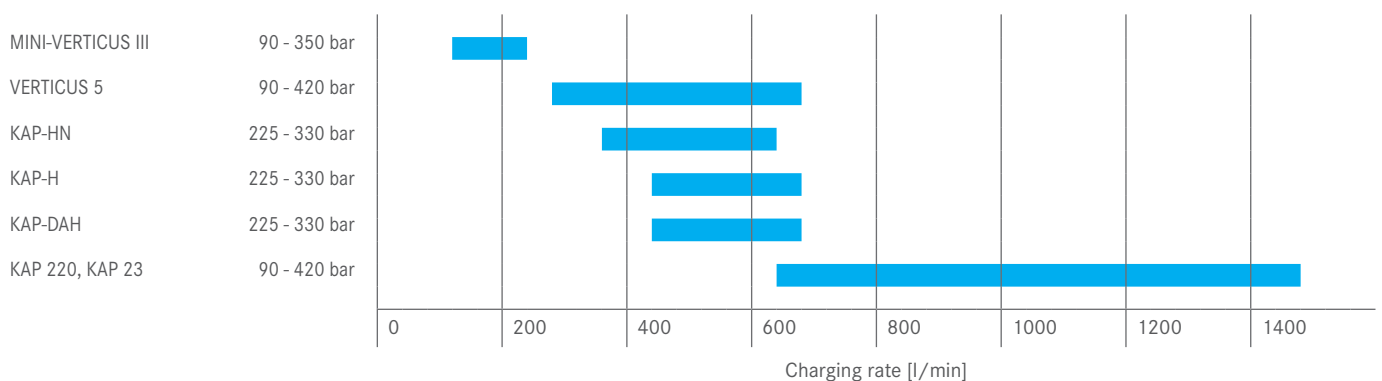
Their sophisticated technology combined with our decades of experience stand for reliable operation with an ultra-long service life.

In addition to air and breathing air compression, we supply special TÜV-certified nitrox compressors (see our “B-NITROX Systems” brochure for details).

MOBILE COMPRESSORS | 90 – 420 BAR

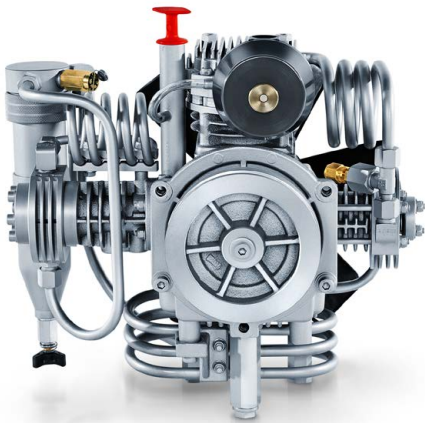


STATIONARY COMPRESSORS | 90 – 420 BAR

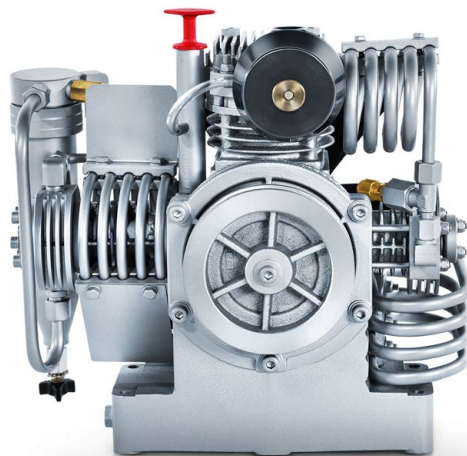


COMPRESSOR BLOCKS

Each and every one of our compressor blocks contains decades of experience and the expertise of our Testing and Development Centre. BAUER compressor blocks have built a legendary reputation on their reliability and long service life. They are the result of advanced design, intelligent in-depth solutions, the use of exceptionally high-quality materials and outstanding production quality.



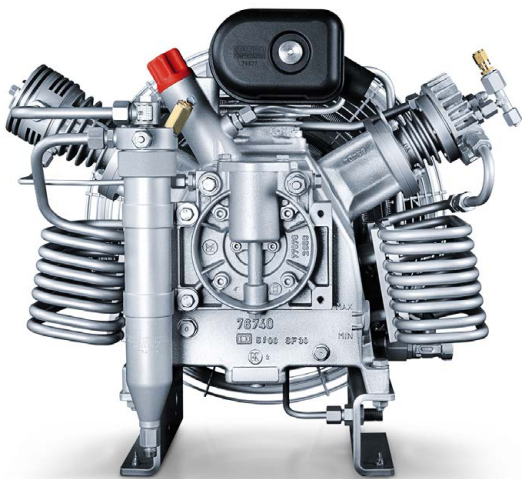
JUNIOR Compressor Block



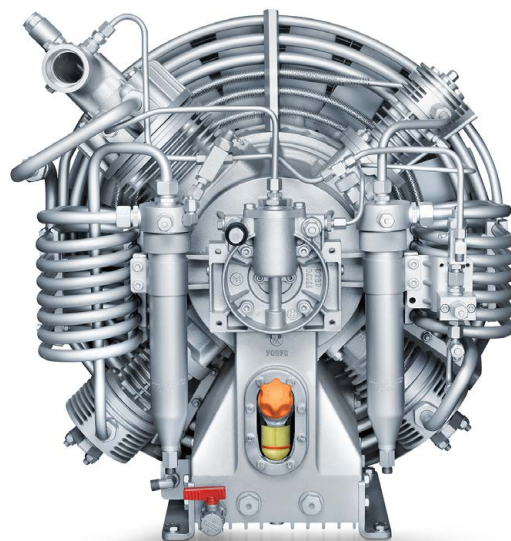
OCEANUS Compressor Block

JUNIOR AND OCEANUS COMPRESSOR BLOCKS

- › Minimised operating costs: long oil change intervals and wear-resistant piston rings significantly reduce running costs.
- › Oil changes are made simple by the easily accessible oil drain and oil filler neck. A dipstick is supplied for easy, reliable oil level checks.
- › Ultra-long life: plateau-honed cylinders and optimum cooling system. OCEANUS also features an integrated low-pressure lubrication system with rugged oil pump, further increasing the service life of all moving compressor block parts
- › OCEANUS operates smoothly even at angles of up to 30° (up to 20° for petrol-driven models).
- › Benefit from our years of experience and over 100,000 compressor blocks sold in this supply volume range.



IK 120 Compressor Block



IK 150 Compressor Block

COMPRESSOR BLOCKS FOR PROFI LINE, MINI-VERTICUS, VERTICUS AND KAP SERIES

- › Optimised cooling of each individual compressor stage by an intelligent air-cooling system with generously dimensioned coolers combined with heavily ribbed cylinders.
- › Ultra-rugged industrial roller bearings are designed for continuous operation under the most challenging conditions.
- › Minimum wear of moving parts thanks to advanced force-feed lubrication system and oil micropurification.
- › Low operating costs: wear-resistant piston rings in the final stage, long maintenance intervals for valves and piston rings and for oil changes keep the running costs of the unit low.
- › All drive units are dynamically balanced for quiet and vibration-free running.

AIR AND BREATHING AIR PURIFICATION SYSTEMS

Whether you rely on pure breathing air to DIN EN 12021 standards as a diver or fire fighter or seek optimised pure compressed air for sports applications such as filling paintball cylinders, BAUER offers over 65 years of experience in air purification, in-depth research and tough material testing, adding up to outstanding quality and maximum safety.

Our goal In highly compressed air and gas purification, our aim is to minimise contamination from moisture, CO, CO₂, oil and particulates. As the market leader, BAUER KOMPRESSOREN supplies air purification systems that have built an excellent reputation worldwide for their cost-effectiveness and quality.

We supply a range of purification systems for many different applications: filter cartridge systems, regeneration and refrigeration dryers and monitoring devices for ensuring compliance with specific air quality threshold values.

BAUER KOMPRESSOREN IS CERTIFIED FOR THE MANUFACTURE OF CATEGORY 4 PRESSURE EQUIPMENT UNDER THE EU PRESSURE EQUIPMENT DIRECTIVE PED97/23/EC.



VERTICUS 5 with integrated P 61 Purification System
(side housing removed for clarity)

P-PURIFICATION SYSTEMS (FILTER CARTRIDGE SYSTEMS)

This range is the undisputed classic among BAUER's purification systems. Its major benefits include rapid and straightforward cartridge change, minimum downtime and cost-effective operation.

BAUER P-Purification Systems reliably remove hazardous substances and deliver pure breathing air for your use. P-Purification System is supplied as standard with every BAUER Sports and Safety compressor.

Depending on the filter type, P-Purification Systems adsorb residual moisture, oil vapour, traces of hydrocarbon cases and carbon monoxide from the compressed air. BAUER P-Purification Systems not only meet, but actually exceed all requirements of the DIN EN 12021:2014 Breathing Air Standard¹.

› **In addition to many integrated P-Purification Systems with varying capacities, our wide range of external purification systems will provide the ideal solution for systems with higher charging rates or interconnected operations.**

¹ Based on due maintenance and installation of the system in accordance with the operating manual and on use of BAUER AERO-GUARD where CO₂ concentrations in intake air exceed the predefined standard values. Local TLVs are not considered.

DIN EN 12021 Breathing Air Standard: 2014-07 ¹	
Threshold values	
Oxygen (O ₂)	21 % ± 1 %
Carbon monoxide (CO)	5 ppm
Carbon dioxide (CO ₂)	500 ppm
Oil	0.5 mg/m ³
H ₂ O	25 mg/m ³

In addition to our P-Purification Systems, we supply the following air purification and monitoring systems:

PURIFICATION

- › B-KOOL – Refrigeration dryer that can extend filter cartridge life for ultra-cost-effective operation
- › AERO-GUARD – Reduces CO₂ content of intake air
- › SECCANT – Regeneration dryer – the safe, low-maintenance way to dry air, boosting charging rates and extending operating life



B-DETECTION PRO online gas measurement system:
Continuous measurement of CO, CO₂, O₂ and pressure dew point.



B-TIMER: Calculates and displays remaining cartridge lifetime and any maintenance requirements

¹ The table shows the limits for breathing air in the definition of the DIN EN 12021:2014-07 Breathing Air Standard.

MONITORING

- › B-TIMER – Calculates filter lifetime and displays filter cartridge change warning, maintenance requirements and operating hours
- › B-SECURUS – Monitors filter cartridge saturation while reliably measures moisture in the cartridge to calculate remaining cartridge life
- › B-DETECTION – Online gas measurement systems for continuous monitoring of compliance with DIN EN 12021:2014 Breathing Air Standard¹
- › PureAir and PureAir Gold Certification – BAUER's seal of quality for your pure breathing air

For more information on air and gas purification by BAUER, see our brochure "BAUER Accessories" and visit www.bauer-kompressoren.de



B-SECURUS: Measures cartridge saturation and displays remaining cartridge life using a traffic light system.

DRIVE SYSTEMS AND MOTORS

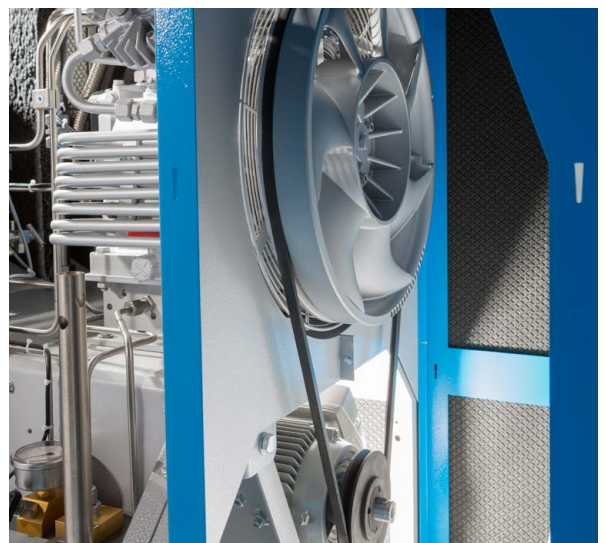
DRIVE SYSTEMS

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 depending on the model series. V-belt tension is ensured by the weight of the motor in vertical format (MINI-VERTICUS, VERTICUS), and by use a belt tensioning device (PROFI LINE) or belt tensioners (KAP Series, KAP 220/23) in horizontal format.

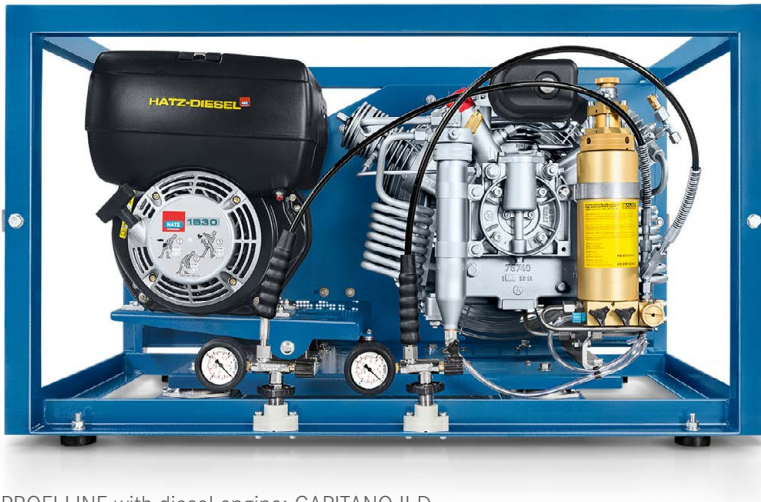


MARINER: V-belt adjustment is unnecessary in the horizontal PROFI LINE systems with by use of a belt tensioning device.



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

¹ Residual oil monitoring with B-DETECTION PLUS only.



PROFI LINE with diesel engine: CAPITANO II-D

MOTORS

Our mobile units (COMPACT and PROFI LINE) are also available with three-phase motor, single-phase AC motor or petrol engine for operation at any locations.

If your application requires a system with a diesel engine (using fuel with a higher flashpoint), consider our PROFI LINE Diesel units and KAP-DAH Series.

AUTOMATION AND COMPRESSOR CONTROL

For 'automatic' operation, a compressor requires a control unit and an automatic condensate drain system. These features are available as optional extras¹ for mobile PREMIUM LINE systems and supplied as standard with stationary systems.

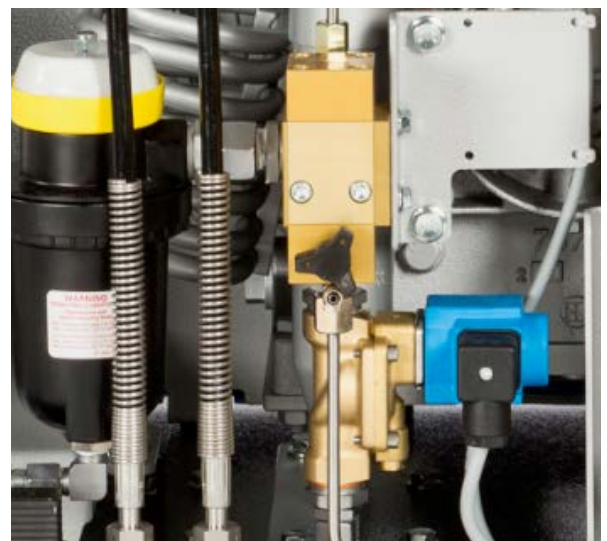
AUTOMATIC CONDENSATE DRAIN SYSTEM

An automatic condensate drain system extends filter cartridge life and generates significant savings in work, costs and time for compressor operators.

The principle is this: condensate – an emulsion of humidity, lubricant and particulate from the ambient air – is created in the compression process.

All integrated separators in the compressor are therefore continuously drained during compressor operation and after shutdown to ensure that no aggressive oil/water mixture (condensate) remains in the compressor.

The condensate is collected in a tank for eco-friendly disposal.



Time saving through automatic operation of the compressor: automatic condensate drain system mounted on a MARINER 250.

¹ Compressor control not available for units with combustion engines.

COMPRESSOR CONTROL UNITS

Safe, secure monitoring of system functions and a control unit aligned to the system are essential for cost effective, safe operation of a compressor system.

Our mobile compressors feature straightforward, self-explanatory operation using a simple compressor control unit for optional integration.

This electronic control unit and additional monitoring system shuts down the compressor when the system reaches final pressure, measures operating hours and oil pressure and displays the current operating status. It also enables the compressor to operate fully automatically – the compressor is switched on when pressure falls below a defined minimum level – in conjunction with a storage system.

The patented mini-computer B-TIMER can also be used with mobile systems without a control unit. B-TIMER shows operating hours and the filter cartridge saturation level, has a flashing light to warn of approaching cartridge changes and displays the order number of the required filter cartridge, ensuring that filter cartridge life is maximised.

HIGH-PERFORMANCE ELECTRONIC CONTROL UNITS – OPTIMISED FOR USER-FRIENDLY OPERATION AND MONITORING OF YOUR COMPRESSOR SYSTEM



Compressor control unit of the MARINER, with main switch, on and off switches and warning light for oil level/rotation direction.



B-TIMER: Calculates and displays remaining filter cartridge lifetime and any maintenance required.

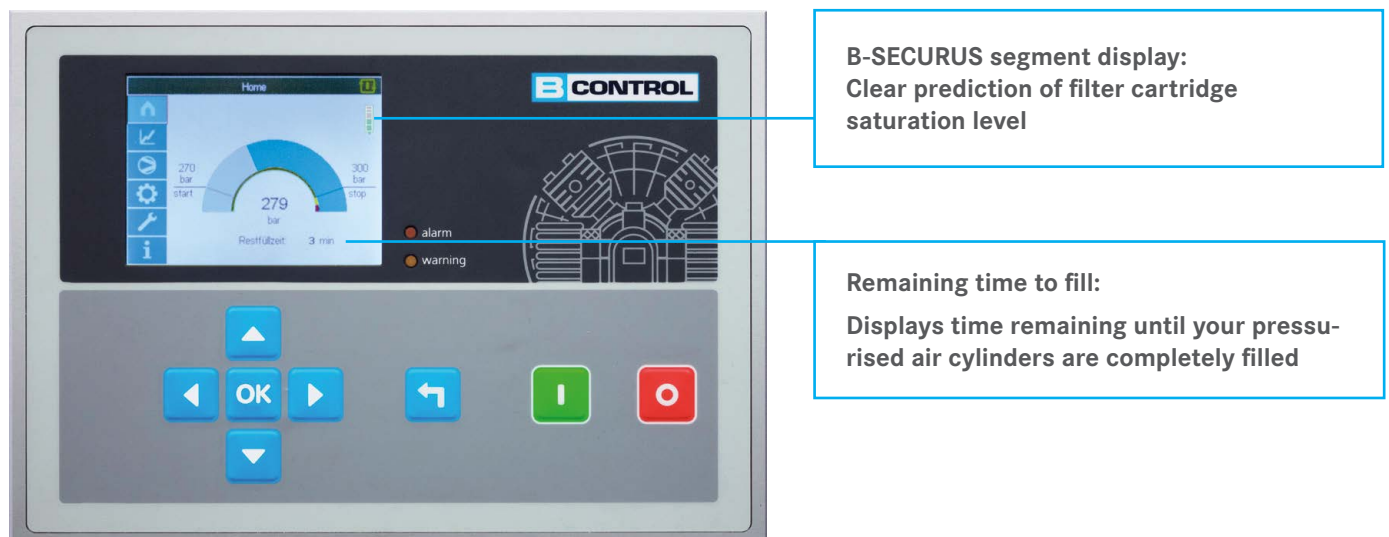
B-CONTROL controls and monitors all functions of your BAUER stationary compressor system. Electronic control units in the B-CONTROL Series enable all relevant requirements for stationary compressors to be comprehensively met.

B-CONTROL MICRO

B-CONTROL MICRO is a modern, easy-to-use compressor control unit with colour display that provides intelligent control and safe monitoring of all basic functions. The unit is integrated into virtually all stationary systems as standard and enables compressor systems to be operated fully automatically¹. It is therefore also optimum for operation with storage solutions.

Interaction between user and control unit is user-friendly and logical. An extensive language selection is now available². The pioneering new user-friendly display and navigation concept is practically identical for all BAUER B-CONTROL control units.

As a further benefit, Interfacing with external input/output signal encoders is possible at any time, as is interconnected operation or the connection of an external display unit.



B-CONTROL MICRO is issued as standard with compressor series MINI-VERTICUS, VERTICUS, KAP-H, KAP-HN and KAP 220/23.

- › 3,5" TFT colour display with clear text
- › Fully automatic monitoring of relevant parameters; compressor shutdown if values are outside permissible ranges
- › Oil pressure monitoring – protects against incorrect rotation direction
- › Software is simply updated using an SD card
- › Unique: display of remaining time to fill your pressurised air cylinder
- › Improved filter monitoring: if a B-SECURUS filter monitoring system is installed in your compressor system, the start display already shows predicted results such as current cartridge saturation level and cartridge change date

¹ Automatic shutdown when pre-set final pressure is reached and automatic switch-on if pressure falls below a pre-defined minimum.

² German, English, French, Italian, Dutch, Polish, Spanish, Czech, Portuguese, Chinese, Japanese, Russian and more on request.

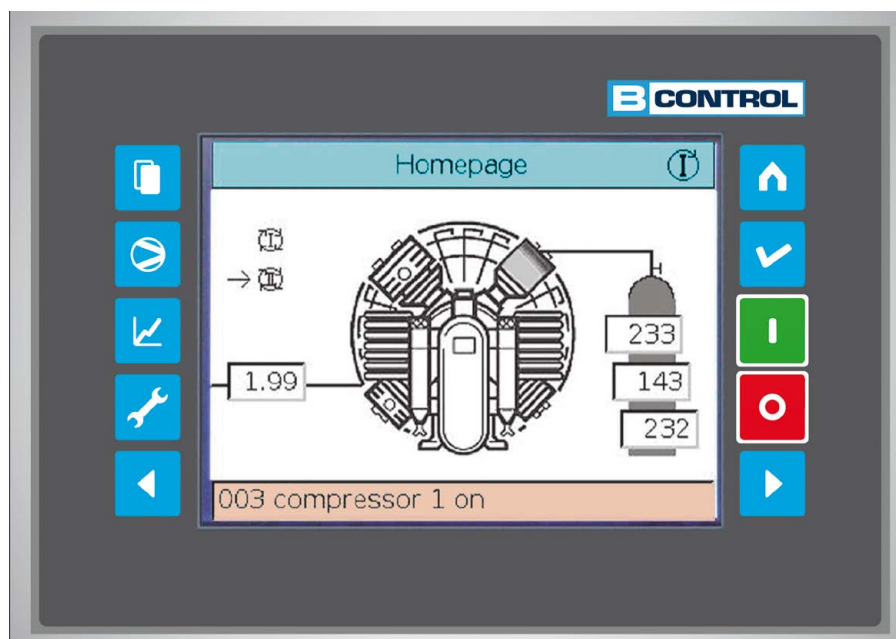
B-CONTROL II

In addition to controlling and monitoring key system functions, the B-CONTROL II also offers convenient additional features including advanced data logger, USB port, common interfaces such as Modbus, CAN Bus and Profibus and integrated control of up to four compressors in interconnected operation. Additional sensors and devices can be connected, e.g. for intermediate pressure and temperature monitoring, data transmission via B-MESSENGER, remote control with external control panel etc.

B-CONTROL II can be customised and expanded in line with individual customer needs, up to control of complete system sequences.

In active interconnected operation the B-CONTROL II serves as the master control unit for control of compressors with simple hard-wired control, B-CONTROL MICRO or B-CONTROL II control units in line with customer needs.

THE BAUER B-CONTROL II IS THE ADVANCED VERSION OF THE BASIC COMPRESSOR CONTROL B-CONTROL MICRO WITH 5.7" TFT COLOUR TOUCHSCREEN DISPLAY AND CLEAR TEXT DISPLAY



B-CONTROL II is optionally available for the VERTICUS, KAP-H, KAP-HN and KAP 220/23 compressor series.

MOBILE COMPRESSORS

COMPACT LINE AND PROFI LINE SERIES

Our mobile compressors impressively demonstrate the state of the art in transportable breathing air compressors.

COMPACT LINE compressors are compact, low-weight systems optimised for mobile applications.

Our PROFI LINE compressors are ideal for all users that appreciate the ruggedness, powerful performance and high quality of genuine BAUER compressors and seek to rely on vital factors such as cost-effectiveness, long life and outstanding continuous operation in the professional use of their mobile compressor system.

Our mobile compressors also retain their value thanks to their exceptional durability and high quality.

FOR MORE DETAILS

visit the BAUER website at
www.bauer-kompressoren.de

COMPACT LINE

ULTRA-COMPACT AND TRANSPORTABLE BREATHING AIR COMPRESSORS

FEATURES

- › **Easy to transport: light and simple to use**
- › **The patented mini-computer B-TIMER reliably warns of approaching filter cartridge change. Safe, secure, user-friendly and rugged**
- › **Many possible applications: sports diving, fire fighting, shipping, medical engineering, paintball, motor sports etc.**

JUNIOR II

Ruggedness, reliability, a wide range of applications and compact flexibility have made the JUNIOR a worldwide classic and a global best-seller, with over 100,000 units sold.

The most compact of our mobile breathing air compressors, it combines a small footprint and advanced technology and is the ideal solution for applications in sports diving, shipping, respiratory protection and paintball and shooting sports.

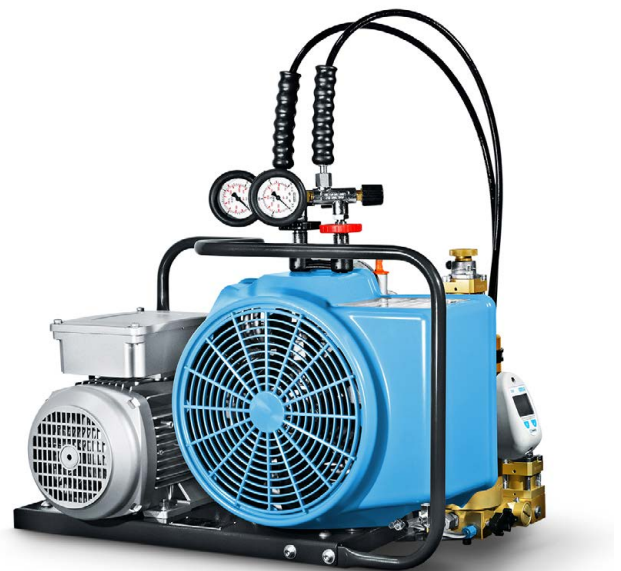
In other words, for anyone that wants to rely on pure, safe breathing air in mobile applications.

The light, compact system can be transported by one or two people and fits into virtually every vehicle boot.

- › **100 l/min**
- › **225 or 330 bar**
- › **2.2 kW (4.2 kW petrol version)**
- › **Available with three-phase motor, single phase motor or petrol engine**

OPTIONAL FEATURES (SELECTION)

- › Additional filling device for 225 or 330 bar
- › Switchover device for 330/225 bar
- › Frame and carrying handle of stainless steel
- › Automatic condensate drain including automatic shutoff when final pressure is reached
- › Trolley



JUNIOR II with electric motor and two pressure ranges

OCEANUS

The OCEANUS delivers excellent performance: although virtually identical in size to the JUNIOR II, it can fill a breathing air cylinder up to 40% faster.

Designed for challenging professional applications, the OCEANUS impresses with its durability, mobility and high output.

With a corrosion-resistant stainless steel base frame, the OCEANUS is the ideal mobile compressor even for coastal areas where the air has a high salt content, and in particular at sea, on submersibles or during expeditions.

A generous oil reserve in the crankcase and the powerful oil pump mean that operation is also possible even at extreme inclinations of up to 30° (up to 20° for petrol-driven models).

- › **140 l/min**
- › **225 or 330 bar**
- › **3 kW (5.1 kW petrol version)**
- › **Available with three-phase motor, single phase motor or petrol engine**

OPTIONAL FEATURES (SELECTION)

- › Additional filling device for 225 or 330 bar
- › Switchover device for 330/225 bar
- › Automatic condensate drain including automatic shutoff when final pressure is reached
- › Trolley



OCEANUS seen from rear with 300 bar filling hose

TECHNICAL DATA

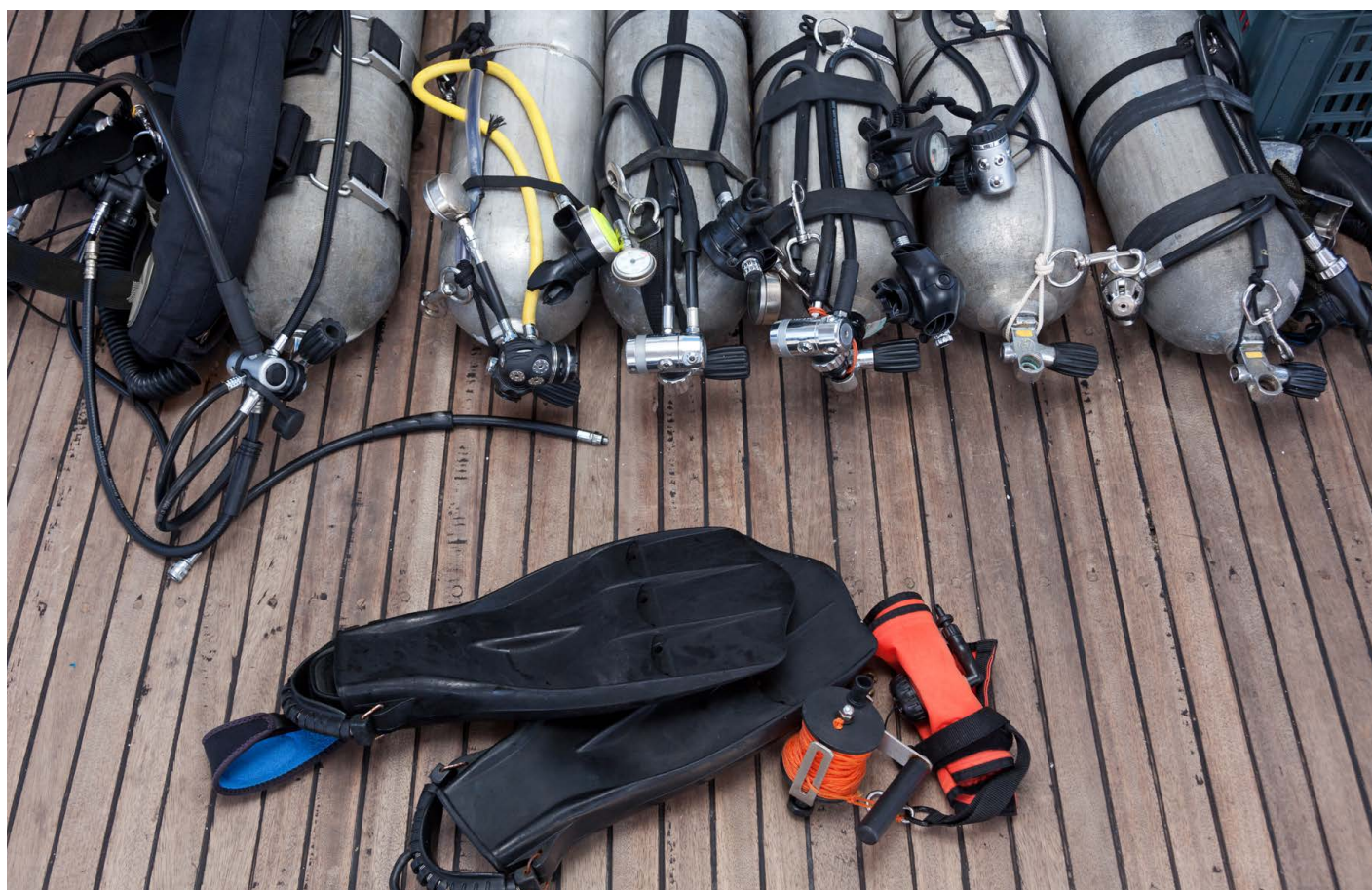
Type	Charging Rate ¹		Operating Pressure max.		Purification system	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
JUNIOR II-B	100	3.5	330	4780	P 21	3	2,300	Petrol engine 4-stroke	4.2	44	78 x 41 x 42
JUNIOR II-E	100	3.5	330	4780	P 21	3	2,300	Three-phase 400 V, 50 Hz ²	2.2	46	66 x 36 x 42
JUNIOR II-W	100	3.5	330	4780	P 21	3	2,300	Single-phase 230 V, 50 Hz ^{3,4}	2.2	46	66 x 39 x 42
OCEANUS-B	140	5	330	4780	P 21	3	2,300	Petrol engine 4-stroke	5.1	47	79 x 41 x 42
OCEANUS-E	140	5	330	4780	P 21	3	2,300	Three-phase 400 V, 50 Hz ²	3	52	66 x 40 x 42
OCEANUS-W	140	5	330	4780	P 21	3	2,300	Single-phase 230 V, 50 Hz ²	3	52	66 x 40 x 42

1 Measured by cylinder filling (10 l) from 0 - 200 bar / 2900 psig, ± 5%.

2 Plug dimension: 16 A. OCEANUS-W without plug.

3 Plug dimension: Schuko plug. Plug only for units with 230 V / 50 Hz.

4 With integrated motor protection switch (only for 220/230/240 V).



PROFI LINE II

MOBILE ALL-ROUNDERS FOR PROFESSIONAL APPLICATIONS

FEATURES

- › **Tough and rugged, with extremely durable drive unit for short-term operation and continuous service**
- › **Long service life and durability: three- and four-stage design and industrial roller bearings ensure long operating life**
- › **Reliable lubrication: with generously dimensioned low-pressure oil pump**

CAPITANO

The CAPITANO 140 by BAUER KOMPRESSOREN has been developed specifically for advanced professional applications. Incredible durability, compact dimensions and low weight count here in equal measure.

Furthermore, the first stage and the high-pressure final stage of the CAPITANO 140 feature virtually wear-free piston rings made from a new high-tech plastic.

A vibration-reducing motor base design optimises smooth running.

- › **140 l/min**
- › **225 or 330 bar**
- › **3 kW (4 kW petrol version)**
- › **Available with three-phase motor or petrol engine**

OPTIONAL FEATURES (SELECTION)

- › Additional filling device for 225 or 330 bar
- › Switchover device for 330/225 bar
- › Larger P 31 Purification System for extended filter cartridge life
- › B-TIMER filter cartridge lifetime monitoring system
- › Automatic condensate drain including automatic shutoff when final pressure is reached
- › Crash frame and handles (required for accommodating system accessories)
- › Trolley



CAPITANO 140 with petrol engine and trolley

MARINER

The MARINER Series was designed for high charging rates in mobile applications and is ideal for both private and commercial filling station operations.

The MARINER is supplied with a corrosion-resistant crash frame for integrating system accessories.

The MARINER 250 model and upwards also include the innovative BAUER P 31 Purification System.

The sophisticated purification technology of the BAUER Purification System reliably prevents users from inhaling air impurities¹ and provides effective protection from icing up.

Professional quality, tailored to every application: delivering charging rates of 320 l/min, the MARINER 320 is among the world's most powerful compressors! Its ultra-rugged compressor block and corrosion-resistant components make it ideal for use in even the most challenging climates.

- › **200 – 320 l/min**
- › **225 or 330 bar (MARINER 320: optionally also up to 420 bar)**
- › **4 – 7.5 kW (petrol version up to 8.8 kW)**
- › **Available with three-phase motor or petrol engine**

OPTIONAL FEATURES (SELECTION)

- › Additional filling device for 225 or 330 bar (for MARINER 200/250)
- › Switchover device for 330/225 bar
- › Larger P 31/P 41 Purification System (depending on model) for extended filter cartridge life
- › B-TIMER filter cartridge lifetime monitoring system (depending on model)
- › B-SECURUS filter cartridge saturation monitoring system (depending on model)
- › Automatic condensate drain including automatic shutoff when final pressure is reached
- › Trolley
- › Nitrox model available



MARINER 320 with electric motor, 4 filling hoses (standard) and 2 pressure ranges (optional)

¹ Based on due maintenance and installation of the system in accordance with the operating manual and on use of BAUER AERO-GUARD where CO₂ concentrations in intake air exceed the predefined standard values. Local TLVs are ignored.

PROFI LINE DIESEL

CAPITANO II-D and MARINER II-D are outstanding breathing air compressors equipped with Hatz diesel drive as standard and with 140 and 170 l/min free air delivery rate respectively. They are ideal for operation periods from short-term to heavy-duty continuous operation.

With 3-stage design and industrial bearings, this sophisticated range features long service life and stable value retention in professional use.

The high-quality stainless-steel intercoolers and aftercoolers withstand even the toughest conditions.

A crash frame in profile steel provides optimum rigidity and excellent protection for the system.

- › **140 - 170 l/min**
- › **225 or 330 bar**
- › **5 kW**
- › **Diesel engine**

OPTIONAL FEATURES (SELECTION)

- › Additional filling device for 225 or 330 bar
- › Switchover device for 330/225 bar
- › B-TIMER filter cartridge lifetime monitoring system
- › Telescopic intake tube
- › Trolley



CAPITANO II-D

TECHNICAL DATA

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
CAPITANO 140-B	140	5	350	5000	P 21	3	1,300	Petrol engine 4-stroke	4.0	95	115 x 59 x 55
CAPITANO 140-E	140	5	350	5000	P 21	3	1,300	Three-phase 400 V, 50 Hz ²	3.0	102	115 x 59 x 55
MARINER 200-B	200	7	350	5000	P 21	3	1,250	Petrol engine 4-stroke	5.9	115	125 x 59 x 63
MARINER 200-E	200	7	350	5000	P 21	3	1,250	Three-phase 400 V, 50 Hz ²	4.0	115	125 x 59 x 63
MARINER 250-B	250	9	350	5000	P 31	3	1,450	Petrol engine 4-stroke	6.6	120	125 x 59 x 63
MARINER 250-E	250	9	350	5000	P 31	3	1,450	Three-phase 400 V, 50 Hz ²	5.5	135	125 x 59 x 63
MARINER 320-B	320	11.5	350	5000	P 31	4	1,450	Petrol engine 4-stroke	8.8	138	130 x 64 x 70
MARINER 320-E	320	11.5	350	5000	P 31	4	1,450	Three-phase 400 V, 50 Hz ²	7.5	154	130 x 64 x 70

1 Measured by cylinder filling (10 l) from 0 - 200 bar/ 2900 psig, ± 5%.

2 Plug dimension: 16 A.

PROFI-LINE II 420 BAR

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
MARINER 320-B	320	11.5	420	6000	P 41/420	4	1,450	Petrol engine 4-stroke	8.8	138	130 x 64 x 70
MARINER 320-E	320	11.5	420	6000	P 41/420	4	1,450	Three-phase 400 V, 50 Hz ²	7.5	154	130 x 64 x 70

1 Measured by cylinder filling (10 l) from 0 to 200 bar, ± 5%.

2 Plug dimension: 16 A.

PROFI-LINE II DIESEL

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
CAPITANO II-D	140	5	330	4780	P 21	3	1,300	Diesel engine	5.0	158	110 x 58 x 62,5
MARINER II-D	170	6	330	4780	P 21	3	1,130	Diesel engine	5.0	158	110 x 58 x 62,5

1 Measured by cylinder filling (10 l) from 0 to 200 bar, ± 5%.



STATIONARY COMPRESSORS

MINI-VERTICUS, VERTICUS SERIES, KAP SERIES, KAP 220 UND 23

BAUER stationary compressors were designed and built to meet high performance standards for continuous operation in professional applications. They are supplied with an integrated purification system¹ and intuitive controls, reflecting our priority to optimise ease of operation.

The compressors have V-belt drives and are available in horizontal or vertical format depending on the model. Many also offer sound-insulating housing for operation in noise-sensitive environments.

¹ KAP 220/23 with external purification system

MINI-VERTICUS III

SPACE-SAVING ALL-IN-ONE SOLUTION FOR EXTRA-LOW-NOISE OPERATION

The BAUER MINI-VERTICUS III is a compact complete station in vertical design for all applications requiring low to medium charging rates.

Supplied with sound-insulating housing as standard, the MINI-VERTICUS is the ideal partner for use in environments where noise is a key concern and for customers who need reliable and durable service combined with low running costs.

Simple operation with the B-CONTROL MICRO compressor control unit, integrated filter system and two front filling hoses.

- › **4 - 5.5 kW**
- › **100 - 250 l/min**
- › **225/330/350 bar**
- › **Electric motor**

FEATURES

- › **Super Silent housing as standard: with low noise level for use in working environments where noise is a key concern**
- › **Fully automatic compressor control: B-CONTROL MICRO**
- › **Integrated filling device: supplied with 2 kinkproof filling hoses as standard**
- › **Ultra-compact dimensions for installation where space is at a premium**

OPTIONAL FEATURES (SELECTION)

- › Switchover device 330/225 bar
- › Larger P 61 Purification System for extended filter cartridge life
- › B-SECURUS filter cartridge saturation monitoring system
- › Extended base frame to take up to 2 storage cylinders
- › B-KOOL refrigeration dryer
- › Intermediate separator after first stage – recommended in conditions of high humidity



MINI-VERTICUS III

TECHNICAL DATA

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
MV 100-4-3	150	5.3	350	5000	P 41	3	1,340	Three-phase 400 V, 50 Hz ²	4	255	104 x 75 x 133
MV 120-4-3	200	7	350	5000	P 41	3	1,270	Three-phase 400 V, 50 Hz ²	4	255	104 x 75 x 133
MV 120-5.5-3	250	9	350	5000	P 41	3	1,470	Three-phase 400 V, 50 Hz ²	5.5	270	104 x 75 x 133

1 Measured by cylinder filling (10 l) from 0 - 200 bar/ 2900 psig, ± 5%.

2 Plug dimension: 16 A.



VERTICUS 5

CLASSIC BAUER HIGH-PRESSURE COMPRESSOR FOR SUPERB HIGH PERFORMANCE

The successful VERTICUS 5 Series was developed and built specifically to meet high performance requirements in continuous operation in professional applications.

The compressors are available in versions for 225 and/or 330 bar as well as in a version for 420 bar.

The high modularity of the VERTICUS 5 series means that the units can easily be adapted to provide the best possible solution to your requirements and wishes.

Demand-driven electronic control units (B-CONTROL) also provide an array of options for operating the compressors in this series as individual systems, in interconnected operation or in a higher-ranking network.

- › **5.5 - 15 kW**
- › **260 - 680 l/min**
- › **225/330/350/420 bar**
- › **Electric motor**

FEATURES

- › **Free air delivery rates up to 680 l/min**
- › **B-CONTROL MICRO demand-driven electronic compressor control unit**
- › **Compact dimensions for installation even where space is at a premium**
- › **Long operating life thanks to high-quality materials optimised for continuous operation**



VERTICUS 5 – Super Silent

OPTIONAL FEATURES (SELECTION)

- › Super Silent noise insulation housing
- › Larger P 81 Purification System for extended filter cartridge life
- › B-SECURUS filter cartridge saturation monitoring system
- › 4 front-mounted filling devices, optionally for one or two pressure ranges
- › B-CONTROL II compressor control unit – e.g. for interconnected operation etc.
- › B-KOOL refrigeration dryer
- › Intermediate separator after first stage – recommended in conditions of high humidity
- › Nitrox version available

TECHNICAL DATA

VERTICUS 5 UP TO 350 BAR

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx. ²	Dimensions ³ L x W x H
	l/min	cfm	bar	psig				Motor	kW		
V 12.14-5.5-5	260	9.2	350	5000	P 61/350	3	1,185	400 V/50 Hz ⁴	5.5	305	114 x 83 x 152
V 12.14-7.5-5	320	11.5	350	5000	P 61/350	3	1,450	400 V/50 Hz ⁵	7.5	310	114 x 83 x 152
V 15.1-7.5-5	370	13	350	5000	P 61/350	3	1,050	400 V/50 Hz ⁵	7.5	340	114 x 83 x 152
V 15.1-11-5	450	16	350	5000	P 61/350	3	1,320	400 V/50 Hz ⁵	11	350	114 x 83 x 152
V 150-11-5	540	19	350	5000	P 61/350	3	1,230	400 V/50 Hz ⁵	11	350	114 x 83 x 152
V 180-15-5	680	24	350	5000	P 61/350	4	1,400	400 V/50 Hz ⁶	15	365	114 x 83 x 152

1 Measured by cylinder filling (10 l) from 0 - 200 bar/ 2900 psig, ±5%.

2 Super Silent models weigh 90 kg / 200 lbs more.

3 Dimensions Super Silent version: 148 x 83 x 152 cm.

4 Plug dimension: 16 A.

5 Plug dimension: 32 A.

6 Without plug.

VERTICUS 5 UP TO 420 BAR

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx. ²	Dimensions ³ L x W x H
	l/min	cfm	bar	psig				Motor	kW		
V 12.14-5.5-5	260	9.2	420	6000	P 61/420	4	1,185	400 V/50 Hz ⁴	5.5	305	114 x 83 x 152
V 12.14-7.5-5	320	11.5	420	6000	P 61/420	4	1,450	400 V/50 Hz ⁵	7.5	310	114 x 83 x 152
V 15.11-11-5	450	16	420	6000	P 61/420	4	1,320	400 V/50 Hz ⁵	11	340	114 x 83 x 152
V 18.1-15-5	560	19.7	420	6000	P 61/420	5	1,490	400 V/50 Hz ⁵	15	350	114 x 83 x 152

1 Measured by cylinder filling (10 l) from 0 - 200 bar/ 2900 psig, ±5%.

2 Super Silent models weigh 90 kg / 200 lbs more.

3 Dimensions Super Silent version: 148 x 83 x 152 cm.

4 Plug dimension: 16 A.

5 Plug dimension: 32 A.

KAP SERIES

THE INDESTRUCTIBLE SYSTEM CONCEPT – BUILT FOR THE MOST CHALLENGING APPLICATIONS ON LAND AND SEA.

FEATURES

- › **Ideal for harsh maritime conditions: intercoolers and aftercoolers are in rustproof stainless steel for maximum corrosion resistance**
- › **Reliable operation even at extreme inclines thanks to low centre of gravity and rugged block design**
- › **Available with electric motor or low-maintenance diesel engine for autonomous operation**

KAP-H SERIES

KAP-H Series compressors feature horizontal design, exceptional corrosion resistance and high FAD rates. Designed for the rigours of continuous industrial use, these compressors have a low centre of gravity that makes them ideal for situations involving extreme inclines, such as on the high seas or in vehicle installations.

The B-CONTROL MICRO control unit with colour display, supplied fully integrated as standard, ensures simple compressor operation and provides intelligent control and safe, secure monitoring of all basic functions.

- › **11 - 15 kW**
- › **450 – 680 l/min**
- › **225/330 bar**
- › **Electric motor**



KAP-H compressor unit

OPTIONAL FEATURES

- › B-SECURUS filter cartridge saturation monitoring system
- › B-CONTROL II compressor control unit – e.g. for interconnected operation etc.
- › Filling panel
- › Intermediate separator after first stage – recommended in conditions of high humidity

KAP-HN SERIES

A low centre of gravity and advanced design with special shock absorbers and robust shock and damping elements, proven in rigorous shock and vibration testing, make the KAP-HN series by BAUER KOMPRESSOREN ideal for continuous operation at sea under the harshest of conditions¹.

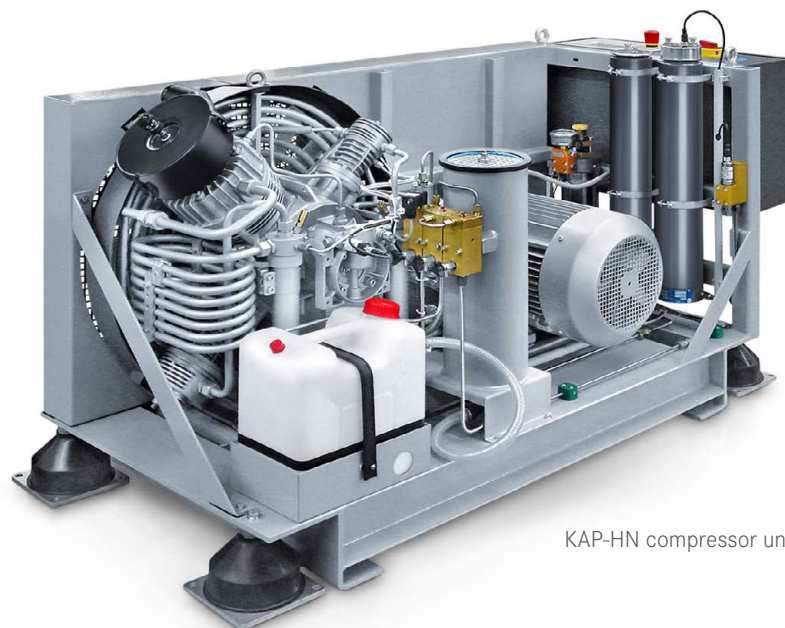
Thanks to their horizontal design, they are capable of operation in heavy seas and on extreme inclines. V-belt drive and proven BAUER system components ensure ease of maintenance.

The B-CONTROL MICRO control unit with colour display, supplied integrated as standard, provides intelligent control and safe, secure monitoring of all basic functions.

- › **7.5 – 15 kW**
- › **370 – 680 l/min**
- › **225/330 bar**
- › **Electric motor**

OPTIONAL FEATURES

- › B-SECURUS filter cartridge saturation monitoring system
- › B-CONTROL II compressor control unit – e.g. for interconnected operation etc.
- › Filling panel
- › Intermediate separator after first stage – recommended in conditions of high humidity



KAP-HN compressor unit

¹ The base frame withstands acceleration of min. 6 g over a period of 20ms (semi-sinusoidal) as required by e.g. BV 0430, Annex H.

KAP DIESEL SERIES

With a low centre of gravity and robust, low-maintenance diesel drive, KAP-DAH Series horizontal compressors are able to meet the most exacting requirements for reliable and autonomous continuous operation in remote locations.

All coolers, filters, valves and cables are made from rust-free materials – designed for the harshest outdoor climates and absolutely reliable at high outdoor temperatures.

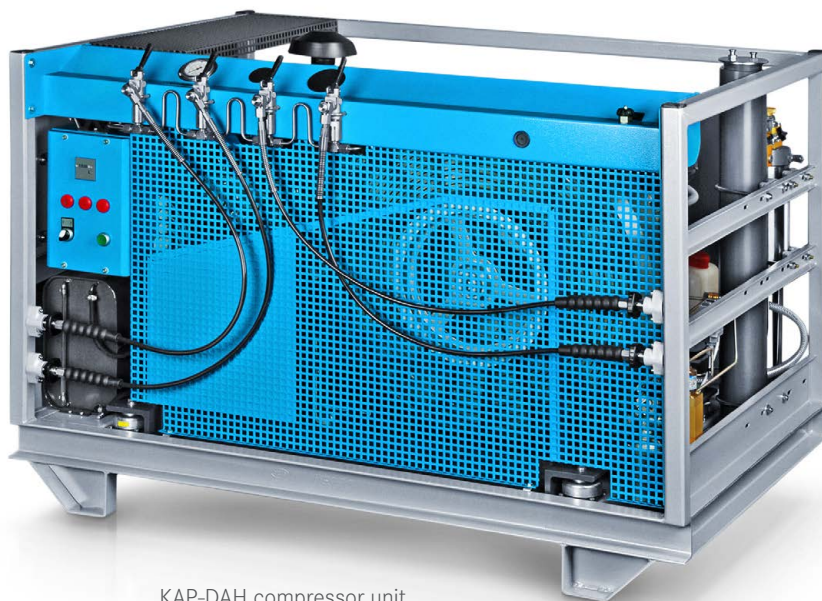
The uncompromisingly intelligent design of the unit naturally provides ease of access for maintenance work.

The electronic control system with additional electronic monitoring function automatically shuts down the compressor when the final system pressure is reached, measures operating hours and oil pressure, and displays the current operating status. The battery charge status can also be read off from the control unit.

- › **14 – 18 kW**
- › **450 – 680 l/min**
- › **225/330 bar**
- › **Diesel engine**

OPTIONAL FEATURES

- › Larger P 81 Purification System for extended filter cartridge life
- › B-SECURUS filter cartridge saturation monitoring system
- › Integration of filling panels
- › Intermediate separator after first stage – recommended in high temperatures



KAP-DAH compressor unit

TECHNICAL DATA

KAP-H SERIES

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
KAP 15.1-11-H	450	16	330	4780	P 41 DUO	4	1,320	400 V/50 Hz ²	11	370	165 x 71 x 85
KAP 150-11-H	540	19	330	4780	P 41 DUO	4	1,230	400 V/50 Hz ²	11	370	165 x 71 x 85
KAP 180-15-H	680	24	330	4780	P 41 DUO	4	1,400	400 V/50 Hz ³	15	385	165 x 71 x 85

1 Measured by cylinder filling (10 l) from 0 - 200 bar / 2900 psig, ±5%.

2 Plug dimension: 32 A.

3 Without plug.

KAP-HN SERIES

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
KAP 15.1-7.5-HN	370	13	330	4780	P 41 DUO	4	1,050	400 V/50 Hz ²	7.5	370	165 x 72.5 x 92
KAP 150-11-HN	540	19	330	4780	P 41 DUO	4	1,230	400 V/50 Hz ²	11	370	165 x 72.5 x 92
KAP 180-15-HN	660	23	330	4780	P 41 DUO	4	1,320	400 V/50 Hz ³	15	385	165 x 72.5 x 92

1 Measured by cylinder filling (10 l) from 0 - 200 bar / 2900 psig, ±5%.

2 Plug dimension: 32 A.

3 Without plug.

KAP-DAH SERIES

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Number of Stages	Speed	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H ²
	l/min	cfm	bar	psig				Motor	kW		
KAP 15.1-14-DAH	450	16	330	4780	P 61	4	1,320	Diesel engine	14	500	146.5 x 100 x 97
KAP 150-16-DAH	540	19	330	4780	P 61	4	1,230	Diesel engine	16	500	146.5 x 100 x 97
KAP 180-18-DAH	680	24	330	4780	P 81	4	1,400	Diesel engine	18	516	146.5 x 100 x 97

1 Measured by cylinder filling (10 l) from 0 - 200 bar / 2900 psig, ± 5%.

2 Without mounted filling panel.

KAP 220 AND KAP 23

RUGGED HEAVY-DUTY BLOCK COMPRESSORS WITH TECHNOLOGY THAT SETS NEW STANDARDS.

The stationary air-cooled heavy-duty units in the BAUER KOMPRESSOREN KAP Series feature virtually unlimited free air delivery volumes which can rise to virtually any challenge.

The modern, reliable system, proven in practice for many years, has V-belt drive and horizontal design.

These powerful horizontal stationary compressor units are available in open or fully closed versions for 225, 330, 350 and 420 bar.

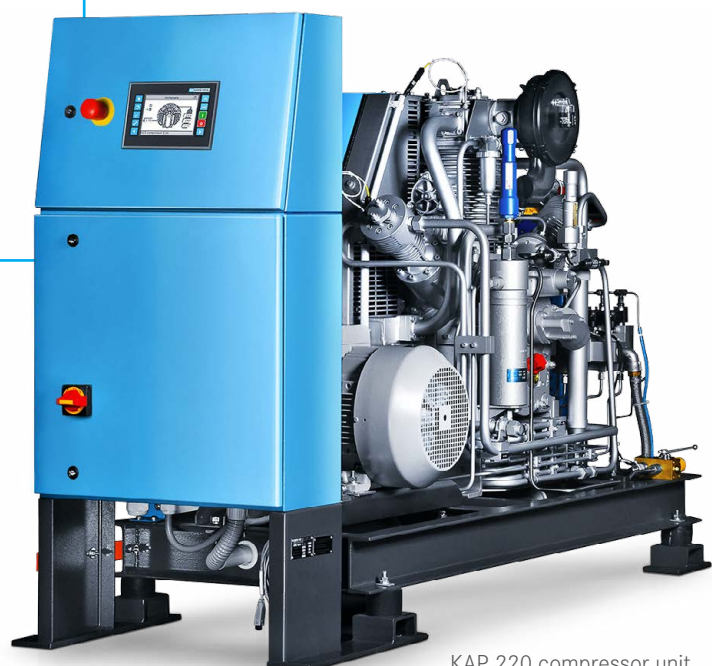
- › 15 - 37 kW
- › 650 – 1,480 l/min
- › 225/330/350/420 bar

OPTIONAL FEATURES

- › Super Silent noise insulation housing
- › B-CONTROL II control unit – e.g. for interconnected operation, monitoring all stages, etc.
- › Intermediate pressure gauge
- › External purification and storage systems

FEATURES

- › Easy to maintain, with V-belt drive and proven BAUER system components
- › Cost-efficient: easy to install and economical to operate
- › Designed for tough conditions, with optimised charging rates and available with a range of drives



KAP 220 compressor unit

TECHNICAL DATA

Type	Charging Rate ¹		Operating Pressure max.		Purification System	Motor ²	Power consumption ³	Number of Stages	Speed	Net Weight approx.		Dimensions L x W x H
	l/min	cfm	bar	psig						kg	lbs	
330 BAR UNITS WITH ELECTRIC MOTOR												
KAP 220-20-E	650	23	350	4800	P 80	15	14.5	4	980	490	1080	214 x 72 x 125
KAP 220-25-E	800	28	350	4800	P 80	18.5	17.9	4	1,180	510	1120	214 x 72 x 125
KAP 220-30-E	930	33	350	4800	P 100	22	20.5	4	1,320	570	1255	214 x 72 x 125
KAP 23-40-E	1,300	46	350	4800	P 120	30	28	4	1,200	760	1670	226 x 86.5 x 131.5
KAP 23-50-E	1,480	52	350	4800	P 120	37	34	4	1,400	780	1715	226 x 86.5 x 131.5
420 BAR UNITS WITH ELECTRIC MOTOR												
KAP 220-30-420	800	28	420	6000	P 100/420	22	19	4	1,180	570	1255	214 x 72 x 125

1 Volume flow according to ISO 1217.

2 Voltage/frequency: 400 V/50 Hz, energy efficiency: IE3. Different voltages/frequency available at extra cost.

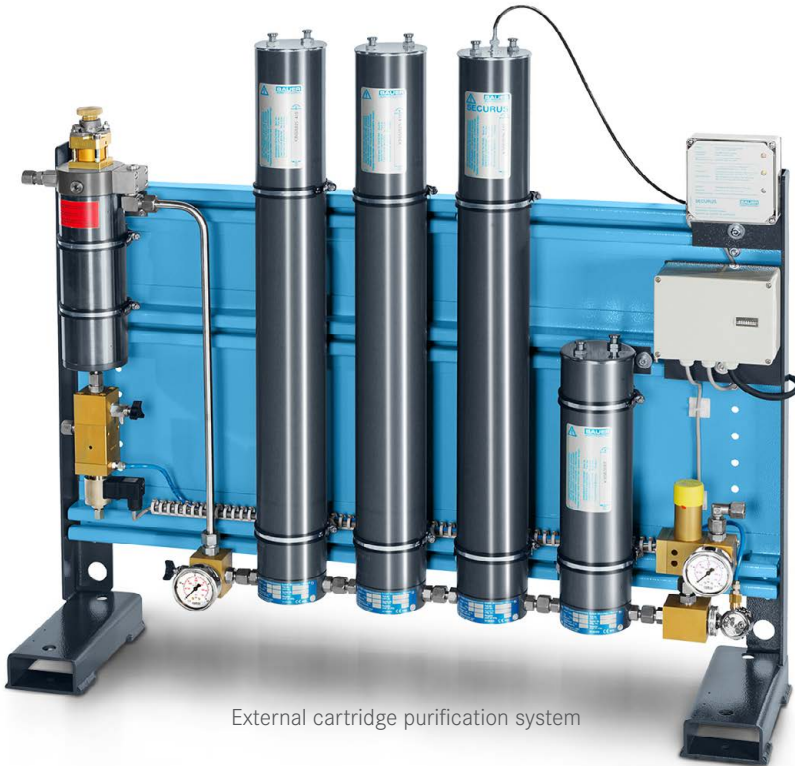
3 Power consumption at final pressure.



ACCESSORIES

BAUER KOMPRESSOREN supplies an extensive range of accessories for its compressor systems.

From air purification to control, storage, gas measurement and distribution - intelligent BAUER accessories enable you to align your system precisely to your needs, enhancing its cost-effectiveness and economical operation or expanding its range of applications.



External cartridge purification system



AERO-GUARD

AIR AND GAS PURIFICATION

- › AERO-GUARD CO₂ Adsorber – reduces CO₂ in intake air
- › External P-Purification Systems
- › B-KOOL Refrigeration Dryer – extends filter cartridge life
- › SECCANT Regeneration Dryer – extends filter cartridge life at high operating hours and high charging rates



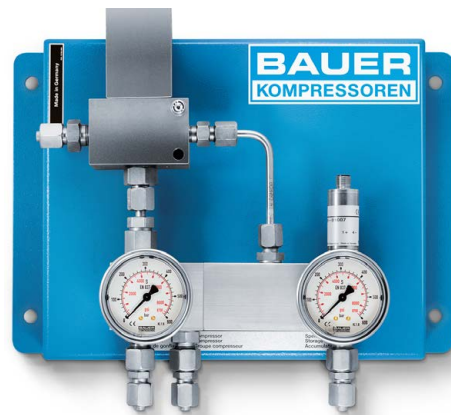
B-KOOL



SECCANT

STORAGE AND DISTRIBUTION

- › Single high-pressure cylinders
- › Storage cylinder racks – with one or more storage cylinders, with optional safety valve for maximum safety
- › Automatic selector unit – for fast, economical filling of storage cylinders



Automatic selector unit



B 160 Storage Cylinder System

FILLING AND SAFETY

- › External filling panels – for wall mounting, with optional remote control unit
- › B-SAFE Safety Filling System – for safe filling of breathing air cylinders
- › FSC Filling Speed Control unit – reduces filling speed to 20 up to maximum 50 bar/min for safe filling, particularly of composite cylinders



External filling panel



B-SAFE

GAS MEASUREMENT TECHNOLOGY

- › AERO-TEST – portable breathing air tester
- › B-DETECTION MOBILE – mobile online gas measurement system
- › B-DETECTION BASIC – stationary online gas measurement system
- › B-DETECTION PRO – stationary online gas measurement system with pressure dew point sensor and higher sensor accuracy



B-DETECTION BASIC



B-DETECTION MOBILE

For further accessories and more details, see our brochures “BAUER Accessories” and “B-DETECTION“ and visit www.bauer-kompressoren.de.



B-DETECTION PRO

A man in a blue shirt is working on a machine in a factory setting. He is looking intently at the machine, which has a blue cable connected to it. The background shows industrial equipment and a blue wall.

SERVICE IS A KEY COMPONENT OF OUR PHILOSOPHY.

BAUER KOMPRESSOREN is there for you all over the world. With 22 subsidiaries, over 50 regional representatives and a widely distributed service network, we offer our customers speedy contact at all times – as well as a comprehensive range of services from spare-part delivery and service agreements to a broad range of training courses. Our goal is to be in a class of our own – for both our products and our services.

- › Service agreements
- › Modernisation
- › Remote maintenance
- › Spare parts
- › System rental

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 (FAT) or site acceptance test (SAT) in the presence of the customer or independent 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. ASME, KHK, ATEX etc.

PACKING & PRESERVATION

- › 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 as well as short or long-term preservation.

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.

TRAINING

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



**ARE YOU INTERESTED IN OUR
PRODUCTS?**

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

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BAUER PREMIUM LINE

N39891

12.2015

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