

SAFETY

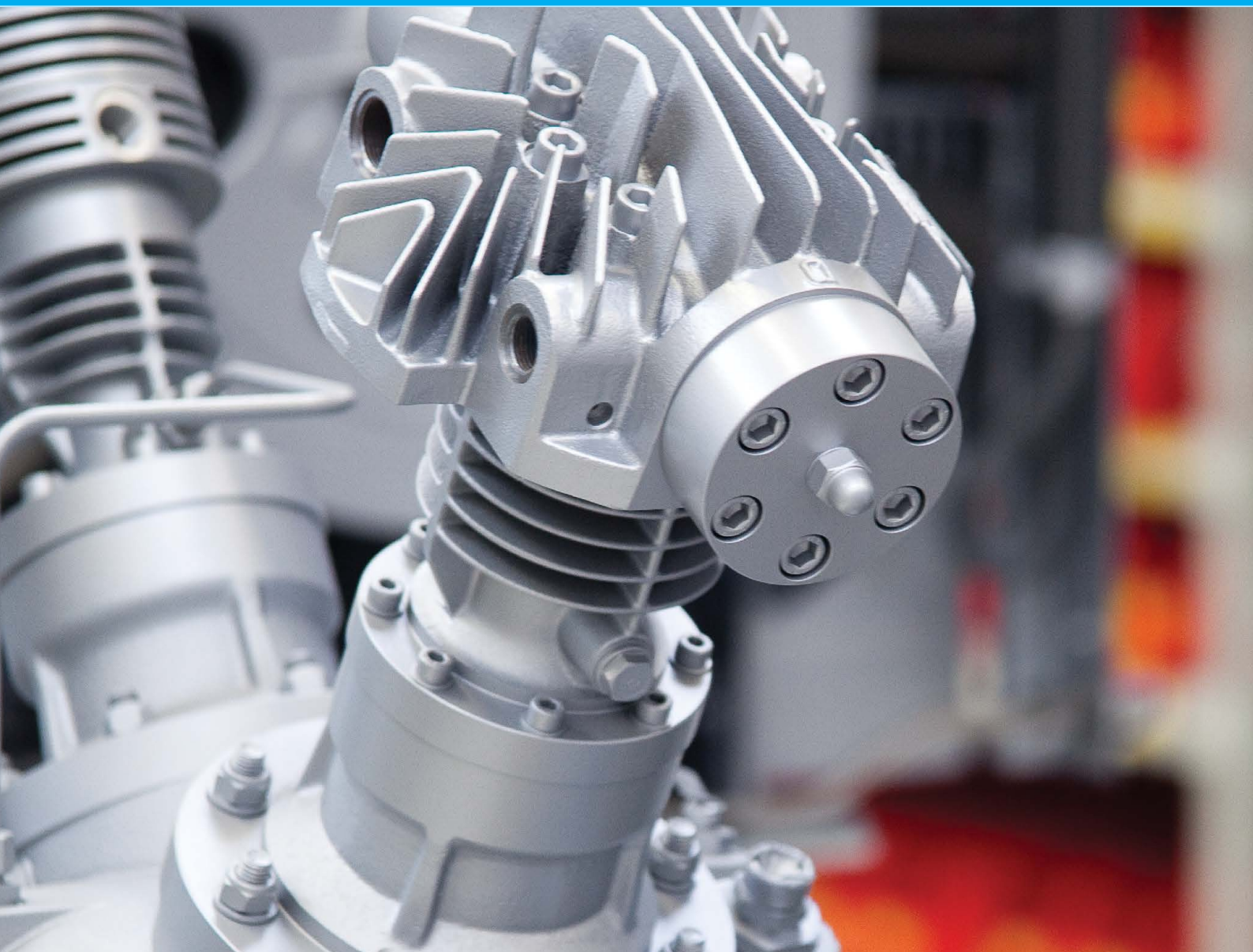
PRECISION

INDEPENDENCE

GLOBAL

# PRODUCT OVERVIEW

Compressor Systems & Accessories for high and medium pressure





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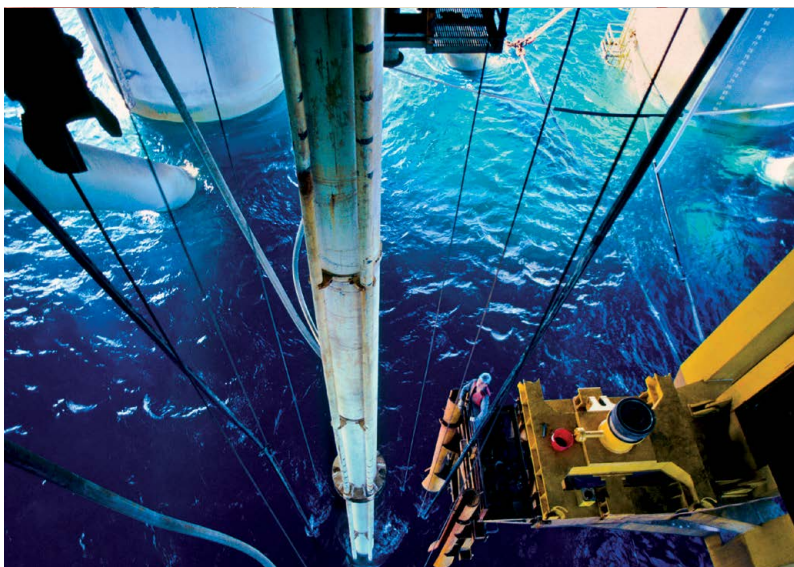
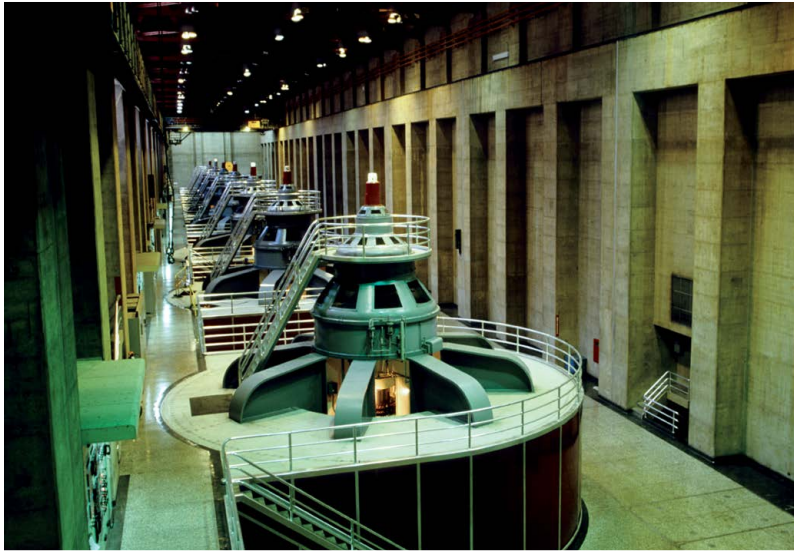
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## HIGH PRESSURE PERFECTION

**BAUER KOMPRESSOREN is a global leader in the manufacture of medium and high pressure air and gases compression systems.**

BAUER KOMPRESSOREN is market leader in the development and production of systems for generating breathing air with nearly 70 years of experience. The BAUER corporate certification system "Pure Air" ensures air purification in accordance with strict international regulations, such as the breathing air standard DIN EN 12021. Thereby providing divers and fire fighters worldwide with the confidence that they are breathing pure and safe breathing air at all times.

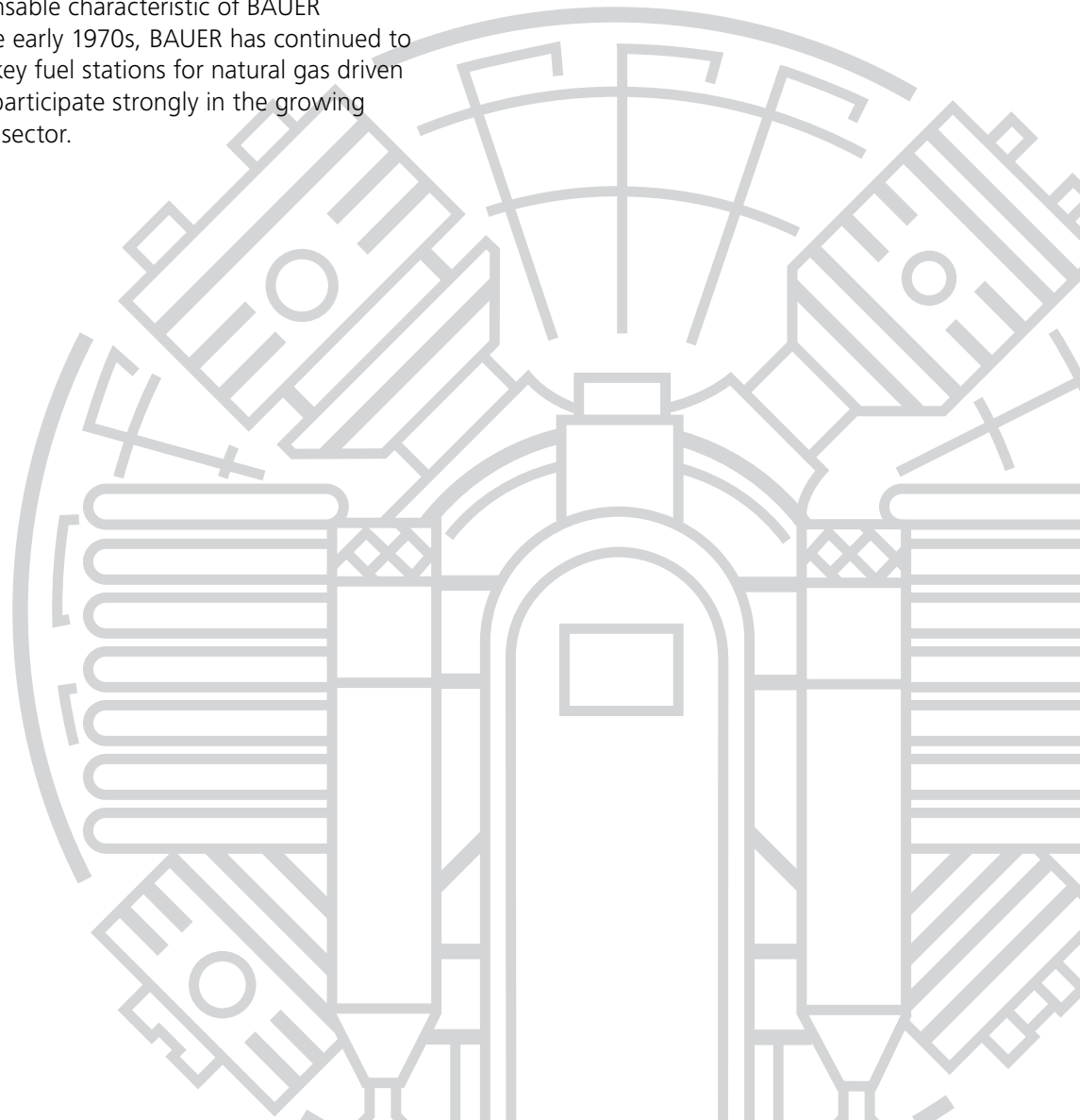
With respect to industrial applications, BAUER KOMPRESSOREN offers a complete range of compressors and boosters in the medium and high pressure range for the compression of air and gases. The modular unit concept enables BAUER to offer tailor-made solutions that cover a comprehensive spectrum of pressures, delivery capacities (F.A.D.s) and compressed gases. BAUER will perfectly match individual customer requirements.

Sustainability is an indispensable characteristic of BAUER KOMPRESSOREN. Since the early 1970s, BAUER has continued to produce and develop turnkey fuel stations for natural gas driven vehicles and continues to participate strongly in the growing climate-neutral fuel biogas sector.

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*Modular unit concepts,  
tailor-made solutions.*

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BAUER KOMPRESSOREN – WORLDWIDE SUCCESS, GLOBAL NETWORK





### BAUER – SUCCESS ROOTED IN TRADITION SINCE 1946

BAUER Kompressoren can look back on a hundred years of mechanical engineering tradition. Company history recalls that 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 recognizing 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.

The cornerstones of BAUER's success remains targeted in global expansion, innovation and the highest quality standards. At present, BAUER KOMPRESSOREN leads a global business network and is represented by its own subsidiaries in all high-growth BRIC markets, where German quality is especially appreciated.

The new millennium is confronting industry with the challenge of developing products which meet the strict requirements of climate friendliness and sustainability. BAUER KOMPRESSOREN, aware of its great responsibility towards future generations, is significantly expanding its business activities in "Fuel Gas System". Including fuel station systems for filling vehicles with environmentally friendly natural gas as well as systems for compressing and distributing the climate-neutral fuel biogas.

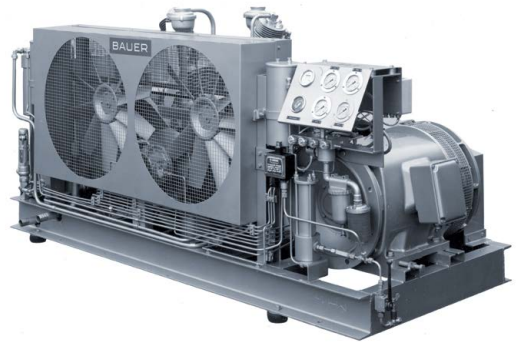
### BAUER OFFERS EXPERTISE

Since its formation, BAUER has pursued technological leadership in the area of medium and high pressure compression by offering products which continually set new standards of innovation and quality. To achieve this, many factors need to be integrated with each other seamlessly and perfectly. This commences in the areas of research and development in our engineering centre: here, before a new product goes into serial production it is submitted to comprehensive testing in our corporate Quality Inspection Centre. The experience thus gained contributes directly to the improvement of new products.

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*Intensive research, testing and development in the BAUER Quality Inspection Centre.*

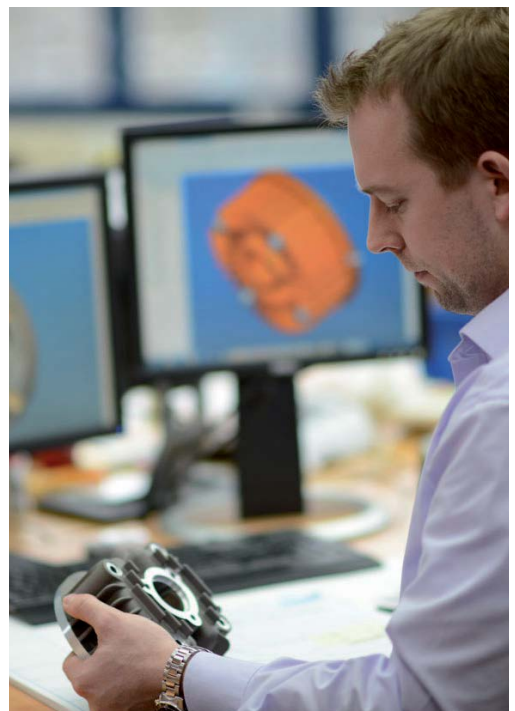
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*Responsibility for future generations.*

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## BAUER REDEFINES QUALITY

Units from BAUER are produced in one of the most modern manufacturing plants of its kind. Due to this high level of vertical integration, all steps of production are comprehensively optimized. The entire production process is "e-collaborated", meaning that from the design office the design data is transferred directly to the production engineers who program the machining options via an online simulation.

The modern state-of-the-art machining equipment, with over 50,000 tool heads, transforms the unfinished castings with microprecision into high-quality basic components which are used to manufacture the compressor blocks.

Each single compressor block, the very heart of each compressor system, is submitted to an endurance test lasting several hours before being released for the unit assembly line. During the subsequent assembly processes, each single unit is submitted to numerous further functional tests as well as a final check.



*All production steps are comprehensively optimized for quality.*



## BAUER DELIVERS COMPLETE SOLUTIONS

In BAUER KOMPRESSOREN you will find a competent and experienced partner for both complex system solutions and turnkey compressor systems. From the design and engineering of the unit and its commissioning, down to service and training performed by one of our 22 subsidiaries or worldwide service partners in your locality: there will always be a BAUER representative standing by!

BAUER guarantees maximum consistency of product quality by conducting comprehensive quality assurance during and after production, in accordance with DIN EN ISO 9001.

*Your partner – from planning to commissioning as well as training and services.*



➤ SAFETY IS NON-NEGOTIABLE.



## PURE AIR IS THE MOST IMPORTANT COMPONENT OF YOUR EQUIPMENT

For BAUER KOMPRESSOREN as the market leader in the field of Sports & Safety, safety is and will remain our top priority during the development of high pressure compressors and systems for air purification and for monitoring and measuring air quality.

Divers going under water and fire fighters entering hazardous situations must unconditionally rely on one thing in particular: a safe supply of pure air complying with the strict requirements of worldwide recognized breathing air standards, such as DIN EN 12021.

Safety also means that air is always available on first demand, whenever and wherever required. Ensuring safety is possible thanks to our renowned reliability and the operational longevity of our units.

In the various areas of sports, reliable provision of pure air is the fuel for success. Take motor sports, where a split second makes all the difference between success and failure. Or in the field of shooting sports, where precise results depend on a reliable supply of pure air.

## BAUER PUREAIR CERTIFICATION

A further important component of our safety philosophy is our corporate "PureAir – Safe Diving" certification. Pure breathing air is without doubt the most important component of safe diving equipment. Inadequately purified air from compressors endangers divers' health and possibly even lives.

With our corporate "PureAir" certification, BAUER KOMPRESSOREN alerts the diver to look for the BAUER seal during selection of a trustworthy filling station. BAUER only awards the exclusive seal of quality to companies which work with BAUER breathing air compressors equipped with a P-series purification system and SECURUS electronic saturation control, therefore delivering breathing air in compliance with the breathing air standard DIN EN 12021.

### BAUER PureAir stations meet strict criteria

Worldwide PureAir certification is only carried out by authorized partners which are trained and authorized by BAUER KOMPRESSOREN and therefore possess the necessary know-how for proper implementation.

During the inspection period, in addition to the installation conditions of the unit, compliance with the standard limiting values of humidity, oil, CO and CO<sub>2</sub> in the generated breathing air are measured.

Furthermore, certified PureAir stations must be equipped with the BAUER SECURUS system, which permanently monitors the filter reliably signalling when the filter cartridge needs to be replaced. To ensure consistent high quality inspection with another air measurement is repeated every 12 months. You can breathe easily!

*Safe provision of breathing air in all fields of application*



*Wir nutzen BAUER Technik,  
um reine Atemluft zu liefern.*

## SCUBA DIVING



### Breathing air supply for divers

Breathing air is the most important component of diving equipment – both for scuba diving and for professional diving. The safe supply

of pure breathing air for the diver is therefore the top priority for BAUER KOMPRESSOREN. This applies to the portable breathing air compressors for private use all the way to professional system installation in diving centres as well as for our NITROX systems, the only complete systems worldwide which are certified by TÜV. Additionally, the corporate "PureAir" certification from BAUER gives divers the assurance that they are diving in safety.

## FIRE BRIGADES



### Breathing air supply for fire fighters

In the event of an emergency, whether at the heart of a fire or in a contaminated environment, fire fighters must be able to rely on their

equipment and, above all, an absolutely reliable supply of breathing air. BAUER KOMPRESSOREN offers tailor-made unit concepts for fire brigades and civil protection services. Whether the unit is located in the fire station and needs to be used quickly and reliably as a mobile unit or is on site in the rescue vehicle, our systems provide assurance, 24 hours a day, seven days a week, 365 days a year.

## SHIPPING



### Fire fighting systems on ships

Once on the high seas, ships become self-sufficient systems. Every technical device has to function reliably. That is the reason for numer-

ous international agreements regulating the safety standards afloat and under water and for the protection of human life and our environment (SOLAS). Thanks to their excellent quality, the units from BAUER KOMPRESSOREN easily meet the technical requirements specified of SOLAS regarding safety and reliability, since the principle "Safety is non-negotiable" applies to all our products. Our systems assume responsibility for manifold tasks on board. They are used, for example, for rendering tanks inert during charging and discharging, providing starting air for ship motors and assuring the breathing air supply for fire fighting in the event of a fire.

## MEDICAL ENGINEERING



### Providing breathing air to pressure chambers

For treatment purposes patients are exposed to increased atmospheric pressure in pressure chambers, such as is the case 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). The patient inhales medically cleaned pure oxygen under increased atmospheric air pressure. Thus, body cells are optimally supplied with oxygen for their rapid regeneration.

## SHOOTING SPORTS / PAINTBALL



### Filling of compressed air cylinders

Today, the air guns of sports marksmen and markers of paintball teams are powered by air from high pressure cylinders.

The precision mechanism of the sports equipment requires 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 quickly and safely into the cartridges.

We offer both complete mobile solutions for tournaments, and stationary installations for associations and event halls.

## MOTOR SPORTS



### Providing pit teams with high pressure air

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 of driver and service team can be decisive over victory or defeat. Car jacks and tools are operated by compressed air. Our compressor systems assure complete, reliable and precise air logistics, which the pit team can rely upon during the rapid service of the cars. Tailor-made storage solutions assure that even in case of demand peaks the required air quantity is available.

## PREMIUM LINE

The BAUER breathing air compressors of the PREMIUM LINE excel through their robustness and outstanding quality. The 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 used for almost any application. Their sophisticated technology combined with our decades-long experience stand for reliable operation with a very long service life.

Pressure range: 225 – 420 bar

Charging rate: 100 – 1,480 l/min

Motor power: 2.2 – 18 kW

## MOBILE UNITS

### COMPACT-LINE

Our portable compressors in the COMPACT-LINE impressively demonstrate the state of the art for transportable breathing air compressors. The JUNIOR II and the OCEANUS in particular excel with their very small, compact dimensions and low weight and are therefore suited for wide-ranging fields of application. Unique feature: B-TIMER, the mini-computer for monitoring filter change and maintenance intervals.



Pressure range: 225 – 330 bar

Charging rate: 100 – 140 l/min

Motor power: 2.2 – 5 kW

### PROFI-LINE

The compressors of the PROFI-LINE II are especially designed for high charging rates in mobile applications. The breathing air compressors CAPITANO and MARINER, which can be configured to meet your needs, are ideally suited for both private use and the professional operation of filling stations. For every user who appreciates the robustness and quality of a BAUER compressor and who places increased importance on efficiency, continuous operation capabilities and expandability.



Pressure range: 225 – 420 bar

Charging rate: 140 – 320 l/min

Motor power: 3 – 9.6 kW

# PREMIUM LINE

## STATIONARY UNITS

### MINI-VERTICUS

The ergonomic design and intelligent purification system stand for easy operation. Thanks to the standard Super Silent housing, the unit provides for a variety of installation possibilities, even in noise-sensitive environments.

The soundproofed MINI-VERTICUS III is ideally suited for applications which prioritize reliability and a long operational life combined with low operating costs.



Pressure range: 225 – 330 bar

Charging rate: 150 – 250 l/min

Motor power: 4 – 5.5 kW

### VERTICUS

The range VERTICUS 5 is specially developed and constructed to meet the high performance requirements of professional continuous operation.

The B-CONTROL MICRO is integrated into the compressor control; all important parameters of the compressor unit can be monitored and controlled. The highly modular design of the VERTICUS 5 range allows the units to be optimized to meet your requirements and wishes without difficulty.



Pressure range: 225 – 420 bar

Charging rate: 260 – 680 l/min

Motor power: 5.5 – 15 kW

### KAP-LINE

KAP-LINE compressors feature horizontal construction, corrosion resistance and a high charging rate. Designed for heavy continuous use in industrial applications, these units have a low centre of gravity and are particularly suited for extreme inclinations, such as may be encountered on the high seas or in-vehicle installations.

KAP-LINE compressors are available both with electric motor and with diesel engine, and are thus suited for use in the most remote regions.



Pressure range: 225 – 330 bar

Charging rate: 350 – 680 l/min

Motor power: 7.5 – 15 kW

## POSEIDON EDITION

The renowned robustness, high degree of safety and pure breathing air quality to meet international norms and standards combine to make units of the POSEIDON EDITION a reflection of the BAUER KOMPRESSOREN hallmark quality. These standards work to bring together proven core BAUER components in reliable equipment.

### MOBILE UNITS

#### PE 100

The PE 100 is the smallest and lightest compressor unit of the PE range. PE 100 is suitable for a wide variety of applications on land or in vehicles, with its three drive variant, petrol engine, three-phase and single-phase alternating current. The possible applications of the PE 100 are extremely diverse; whether as a breathing air compressor for diving groups and fire fighters or for filling cartridges used by marksmen or for paintball competitions.

Pressure range: 225 – 420 bar

Charging rate: 100 – 850 l/min

Motor power: 2.2 – 18.5 kW



Pressure range: 225 – 330 bar

Charging rate: 100 l/min

Motor power: 2.2 – 4.2 kW

#### PE-TE

The compressors PE 200 / PE 250 / PE 300-TE offers an alternative for mobile applications with higher charging rates. Owing to their compact construction, the units are easy to transport and to load into vehicles. Inclinations of 15° are possible, making the units of this range especially suited for use on ships or in vehicles.



Pressure range: 225 – 330 bar

Charging rate: 200 – 300 l/min

Motor power: 4 – 7.5 kW

# POSEIDON Edition



## STATIONARY UNITS

### PE-HE

The horizontal units PE 250-HE and PE 300-HE are among the most compact stationary units of this performance class. Due to the space-saving arrangement of block and drive, the units of the HE range take up a minimum footprint whilst offering a high capacity. The standard versions of these units come already equipped with automatic condensate drain and an easy-to-use control system.



Pressure range: 225 – 330 bar

Charging rate: 250 – 300 l/min

Motor power: 5.5 – 7.5 kW

### PE-VE

The new generation of the PE-VE range distinguishes itself by its peak capacity rate of up to 850 l/min. Tailored to the special requirements of breathing protection and scuba diving, the units offer costefficient equipment for reliable operation.



Pressure range: 225 – 420 bar

Charging rate: 300 – 850 l/min

Motor power: 5.5 – 18.5 kW

## NITROX

The BAUER nitrox system makes it possible to enrich breathing air to an oxygen content of up to 40%. This system supports professional diving instructors, as well as ambitious scuba divers and even commercial divers, during their dives.

Compressing gases with an increased proportion of oxygen demands an especially high degree of safety. Worldwide, BAUER KOMPRESSOREN is currently the only manufacturer which meets the high demands required to obtain TÜV certification of the complete system.

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Pressure range: 225 bar

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Charging rate: 260 – 450 l/min

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Oxygen content: up to 40% O<sub>2</sub>

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## SPECIAL APPLICATIONS

BAUER KOMPRESSOREN is the ideal partner for realizing special solutions, thanks to its strong engineering base and decades of experience. Shown below are examples of BAUER project solutions:

### H<sub>2</sub>S protection systems on IBEEV ships

During the winter months, a number of special ice-breakers – IBEEVs – operate in the Caspian Sea for the purpose of evacuating endangered crews from oil platforms in the event of emergency. Escape rooms located on these boats provide protection in the event of the most significant danger, namely an escape of the highly toxic gas H<sub>2</sub>S from the borehole. The escape rooms are supplied with pure breathing air by the breathing air compression system from BAUER KOMPRESSOREN.



### Vehicle-mounted mobile filling centres

In locations in which great distances need to be covered between fire stations and fire outbreaks, the BAUER vehicle-mounted special system is especially suited. Tailored to meet individual needs, the vehicle-mounted mobile filling centre makes it possible to provide a stationary, or even a complete autonomous mobile system on location. Using the BAUER inline measuring system, the compressed air can be permanently monitored for compliance with the breathing air norm DIN EN 12021.



## AIR PURIFICATION

### P-Purification systems for purifying breathing air

All breathing air compressors from BAUER KOMPRESSOREN are equipped with integrated P-Purification systems. In addition, our product range offers a wide spectrum of external purification systems for separate installation. Adapted to the intended use in question, special filter cartridges are available for removing humidity, oil, hydrocarbons and CO. This ensures that the valid limiting values of breathing air standards such as DIN EN 12021, the guidelines of the European Pharmacopoeia or other international norms are safely achieved.

### SECCANT – regeneration dryer for highly demanding requirements

For applications demanding very high air flow rates in continuous operation, a SECCANT regeneration dryer is a wise choice. As the replacement of filter cartridges is reduced to a minimum, SECCANT provides for cost-effective and uninterrupted operation of the compressor.

### AERO-GUARD – reliable reduction of the CO<sub>2</sub> content

AERO-GUARD assures an efficient reduction of CO<sub>2</sub> content in unfavourable environmental conditions when the air taken in by the compressor contains an increased proportion of CO<sub>2</sub>.

### B-KOOL – for a significant increase in life span of the filter cartridges

The refrigeration dryer B-KOOL increases the life span of the filter cartridges by up to eleven-fold, depending on the ambient conditions. This leads to a considerable reduction in the running costs of the compressor whilst simultaneously protecting the environment.



## MONITORING AND MEASURING AIR QUALITY

### SECURUS for monitoring filter saturation

In all cases every filter cartridge has a limited life cycle which must be adhered to. The SECURUS system gives timely warning of the saturation of the filter cartridge. A special sensor technology creates a safety buffer integrated into the filter cartridge in the event that the fully saturated filter cartridge is not promptly exchanged or where cartridge exchange and/or maintenance is due.

### B-TIMER – changing the filter cartridges made easy

In the integrated purification systems P 21, P 31 and P 41, the mini computer tracks the operating hours and reliably computes the remaining cartridge life time. Cartridge exchange and/or maintenance due are clearly indicated.

### AEROTEST SIMULTAN – the mobile measuring laboratory

The compact dimensions and easy operation allow air quality to be checked for oil, humidity, CO and CO<sub>2</sub> anywhere and everywhere.



## STORAGE

If you have to fill a large number of cylinders within a short period of time, but you cannot install a compressor with appropriate charging rate due to lack of space and/or of limited electrical supply, BAUER offers an ideal storage solution.

The high pressure storage vessel is filled in advance in order to provide the air required for filling the compressed breathing air cylinders later, when an actual requirement arises.

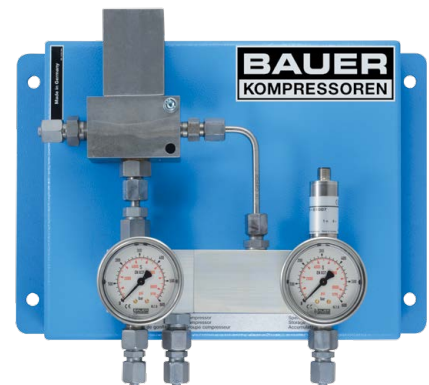
Another advantage of the storage solution: When combined with the automatic selector unit, the compressor only switches on after the pressure in the storage vessel has fallen below the set minimum value, thus protecting the compressor from wear and tear, as the compressor starts less often and runs more regularly. Thanks to the reduced number of load cycles, the service life of the pressure-loaded unit components, such as filter housings or final separators, increases accordingly.



## AUTOMATIC SELECTOR UNIT

The automatic selector unit allows for quick, simultaneous filling of compressed breathing air cylinders in parallel both from a storage system (intermediate buffer) and from the compressor.

Priority is given to filling the cylinder connected to the filling panel, i.e. storage system and compressor would always fill the cylinder on the filling panel first. When this filling process is completed, the storage bank will be refilled via the automatic selector device. Once the maximum filling pressure of the storage bank is reached, the compressor shuts off. As soon as an empty cylinder is connected to the filling panel, the automatic cycle restarts.



## FSC (FILL SPEED CONTROL)

The FCS regulates the speed with which breathing air cylinders are filled. A moderate fill rate is applied, therefore minimizing the dynamic loads which result from extreme pressure variations. This is particularly important for pressure cylinders made of composite materials. At the same time, loss of cylinder filling volume due to high filling speeds is avoided.

## DISTRIBUTION

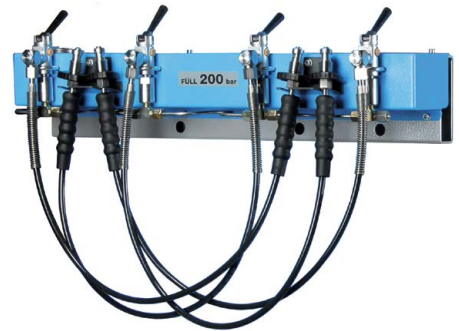
### FILLING PANELS

BAUER offers an extensive range of filling panels, which are either designed for direct mounting on the unit or for external wall mounting. They can be used for all breathing air compressor units as an accessory; special versions of filling panels are also available.

Depending on your requirement, filling panels are offered with 4, 6 or 10 filling valves and in stainless steel versions. When filling panels are used with a pressure reducer, breathing air cylinders of different pressure ranges can be filled simultaneously.

The filling fittings are manufactured from highly pressure-resistant brass and are therefore extremely resistant to the extreme differences of climatic conditions throughout the world.

Equipped with an optional remote control, external filling panels are also suited for installation in a separate room.

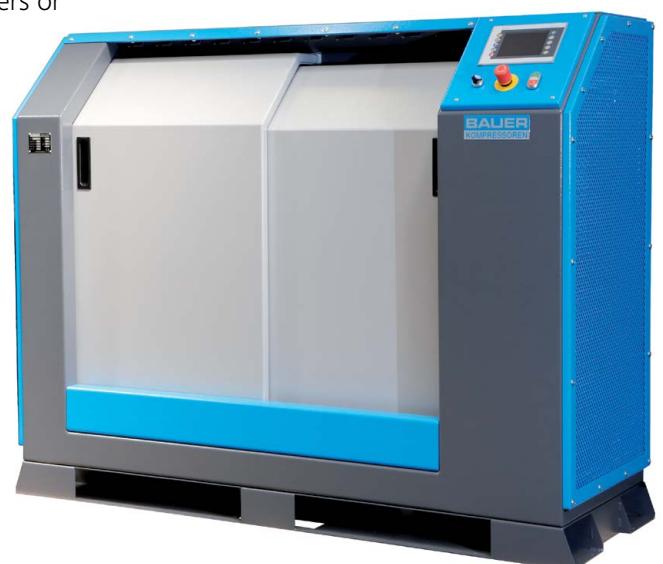


### B-SAFE

The safety filling chamber B-SAFE ensures a high degree of personal safety for the operating staff.

As a result of filling accidents arising from exploding breathing air cylinders, explosion protection is now standard or is even mandatory in many countries.

B-SAFE is the alternative to expensive protective measures for compressor rooms while still providing the maximum legally required safety for the operator. The robust safety chamber made of welded steel offers protection against injuries from exploding cylinders or filling hoses in the event of a filling accident.



➤ EFFICIENT COMPRESSOR SYSTEMS FOR INDUSTRIAL APPLICATIONS.



## WE PROVIDE THE SOLUTION TO MEET YOUR NEEDS

The extensive product range with a wide range of flows and pressures (25 to 500 bar) from BAUER KOMPRESSOREN allows the Design Team to provide optimum solutions to meet each customer application requirement.

Our Systems Engineering is designed to guarantee you a high degree of investment protection through long unit service life, excellent continuous operation properties and minimized maintenance requirements, thus providing you with economic and efficient operation.

Gases compressed include air, nitrogen, methane or rare gases, and both air and water cooled machines can be supplied. Additionally, mobile or stationary installations, indoor or outdoor and container solutions can be supplied. BAUER KOMPRESSOREN is your reliable partner, starting with the design of the unit and project planning, construction and installation right through to turnkey commissioning, including provision of the necessary certifications and TÜV approvals.

You benefit from the experience we have gathered over past decades in countless successful projects carried out in the industrial sector.

During the entire operation of your unit, we will accompany you as desired with reliable service, availability of spare parts over future decades and the training of your staff.

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*High investment protection through long service life*

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## AUTOMOTIVE INDUSTRY AND AUTOMOTIVE SUPPLIER INDUSTRY



The highly specialised component suppliers to the automotive industry work under extreme time and efficiency pressures. Here, compressor

systems from BAUER KOMPRESSOREN with their renowned reliability support the availability, safety and quality of the production process.

Specific applications of BAUER compressors:

- › Supply of test benches with air, gas and mixed gas
- › Gas injection technology for plastic components
- › Filling of pneumatic springs and hybrid cold gas generators (airbags)
- › Acceleration of crash test sledges

## OIL AND GAS INDUSTRY



The production of oil and gas is a tough business. It often takes place in remote regions to which access is difficult and under extreme climatic conditions. Of essential importance and key to success is reliable

equipment. Here BAUER KOMPRESSOREN, with its compressor systems, is a reliable partner in the fields of prospecting, exploration, production and safety technology.

Specific applications of BAUER compressors:

- › High pressure supply for seismic reflection
- › Compressed air supply for motion compensation
- › Generation of pressure for secondary extraction
- › Nitrogen supply for BOPs

## GAS LOGISTICS



In the sector of gas logistics, production reliability, efficiency and most importantly the purity of the gases are core requirements for economic business operation. Thanks to the legendary reliability and

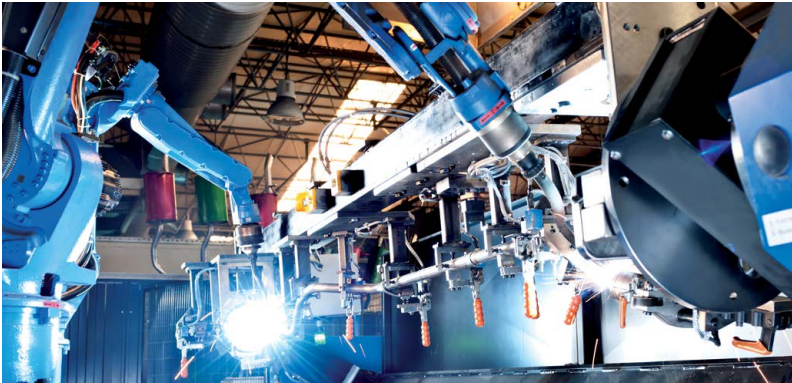
the experience gained over decades in air and gas purification, compressors and purification systems from BAUER KOMPRESSOREN easily meet the strict requirements of this sector.

Specific applications of BAUER compressors:

- › Filling of helium, argon, nitrogen, nitrous oxide and gas mixtures
- › Decanting of gases
- › Recovery of residual gases
- › Generation and filling of breathing and medical air



## PRODUCTION



In the domain of globalized production, the diverse manufacturing methods and their accompanying quality processes are dependent on compressed air and gases as an indispensable element. As a globally

positioned company with 22 subsidiaries and a close-knit service network, BAUER offers the necessary preconditions for a successful cooperation.

Specific applications of BAUER compressors:

- › Generation of the air cushion in isobar double belt presses
- › Bulk handling with high pressure air
- › Supply of test benches with air, gases and gas mixtures
- › Metal forming

## ENERGY SECTOR



The energy sector is multifaceted, but all types of power stations require compressed air and gases in a variety of applications. Moreover, all rely on a supply of compressed air – round the clock.

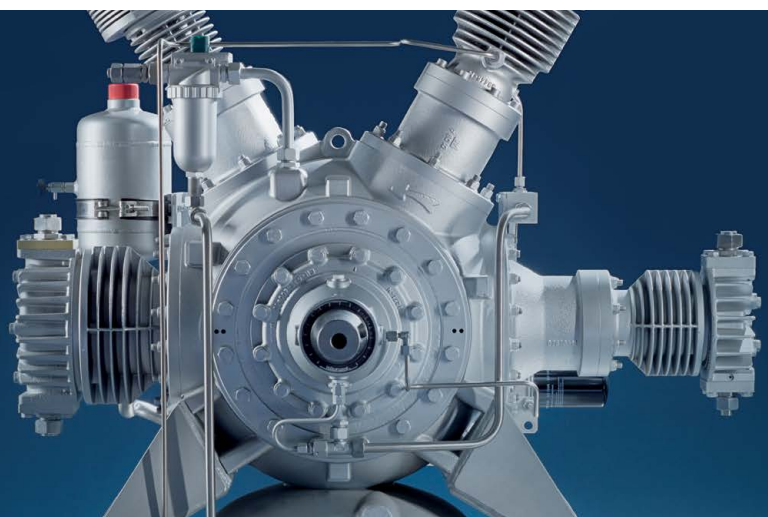
Compressor systems from BAUER KOMPRESSOREN offer the required security of supply.

Specific applications of BAUER compressors:

- › Filling of air vessels
- › Starting of emergency generators
- › Sampling for radiation monitoring
- › Pneumatic cleaning of turbines

## FURTHER SECTORS

- › Shipping
- › Chemical industry
- › Petrochemical industry
- › Mining
- › Research facilities
- › Food industry
- › Aerospace industry
- › etc.



## AIR-COOLED COMPRESSOR UNITS FOR AIR AND NITROGEN

### DS RANGE

The compressors of the DS range are direct-coupled and air-cooled. Because of their low centre of gravity and conventional compressor control as well as optional electrical or diesel drive, these units are perfect for use on board ships. Furthermore, their compact design allows for space-saving installation in confined spaces.

Pressure range: 35 – 40 bar

Charging rate: 200 – 2,760 l/min

Motor power: 4 – 37 kW



### MINI-VERTICUS RANGE

The compact complete solution, with vertical construction, for all applications requiring small or medium flows. Equipped as standard with sound-insulating housing, these models are ideally suited for installation in working areas and laboratories. On top of the hallmark easy control and operation, filters and storage elements can additionally be integrated to complete a compact system solution.

Pressure range: 30 – 350 bar

Charging rate: 85 – 215 l/min

Motor power: 2.2 – 5.5 kW



### VERTICUS 5 RANGE

The "classic" within the successful BAUER high pressure range combines compact design with high performance. Available for all current non-aggressive gases and gas mixtures, this range is ideally suited for virtually all applications.

Demand-oriented electronic controls (B-CONTROL) provide the possibility to operate the units of this range as stand-alone units, within an array or within a superordinate network.

Pressure range: 30 – 500 bar

Charging rate: 85 – 800 l/min

Motor power: 3 – 15 kW



## K 22 – K 28 RANGE

Horizontal design, V-belt drive, a robust and proven system. Whether for standard industrial applications using compressed air or mounted as mobile systems for off-road use, the air-cooled units are reliable, robust, and the first choice for many customers.

Pressure range: 35 – 500 bar

Charging rate: 650 – 6,800 l/min

Motor power: 15 – 110 kW



## WATER-COOLED COMPRESSOR UNITS FOR AIR AND NITROGEN

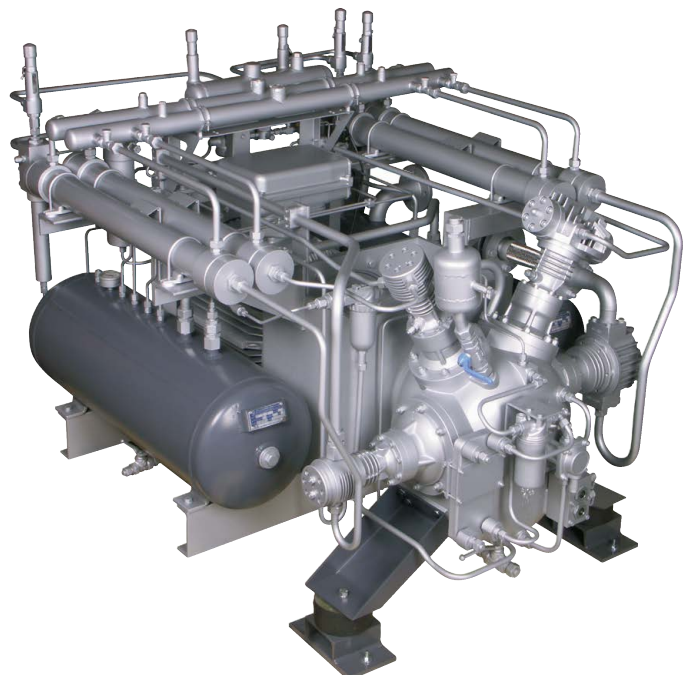
### BK 23 – BK 52 RANGE

This water-cooled high pressure compressor range is optimally suited for installation in conditions which do not allow for conventional air-cooling. As a result of targeted water cooling of the interstage and aftercoolers as well as some valve heads, about 85 % of the heat produced is absorbed by the cooling water. For this reason, the units are exceptionally maintenance-friendly, durable and robust, and at the same time are quieter than comparable air-cooled units – optimally designed for industrial continuous operation / heavy duty use.

Pressure range: 25 – 420 bar

Charging rate: 1,300 – 6,800 l/min

Motor power: 30 – 160 kW



## BOOSTERS (DOWNSTREAM COMPRESSORS), AIR-COOLED AND WATER-COOLED

The booster range catches the attention with a pressure-resistant crankcase up to 17 bar. This allows compression to the desired final pressure with lower blow-by losses, which are commonplace with normal recompressors. For the drive, we offer direct-coupled or V-belt driven solutions in horizontal or vertical design.

**Air-cooled:** With the industrial booster range from BAUER KOMPRESSOREN, economic use of existing inlet pressure is particularly easy. The range stands out due to the low installation and maintenance requirements compared to the norm for air-cooled units.

**Water-cooled:** Optimally suited for installation under circumstances which do not allow air-cooling. As a result of targeted water cooling of the interstage and aftercoolers, approximately 85 % of the heat produced is absorbed by the cooling water. Therefore, these units are exceptionally maintenance-friendly, durable and far quieter than comparable air-cooled units.

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Pressure range: 25 – 420 bar

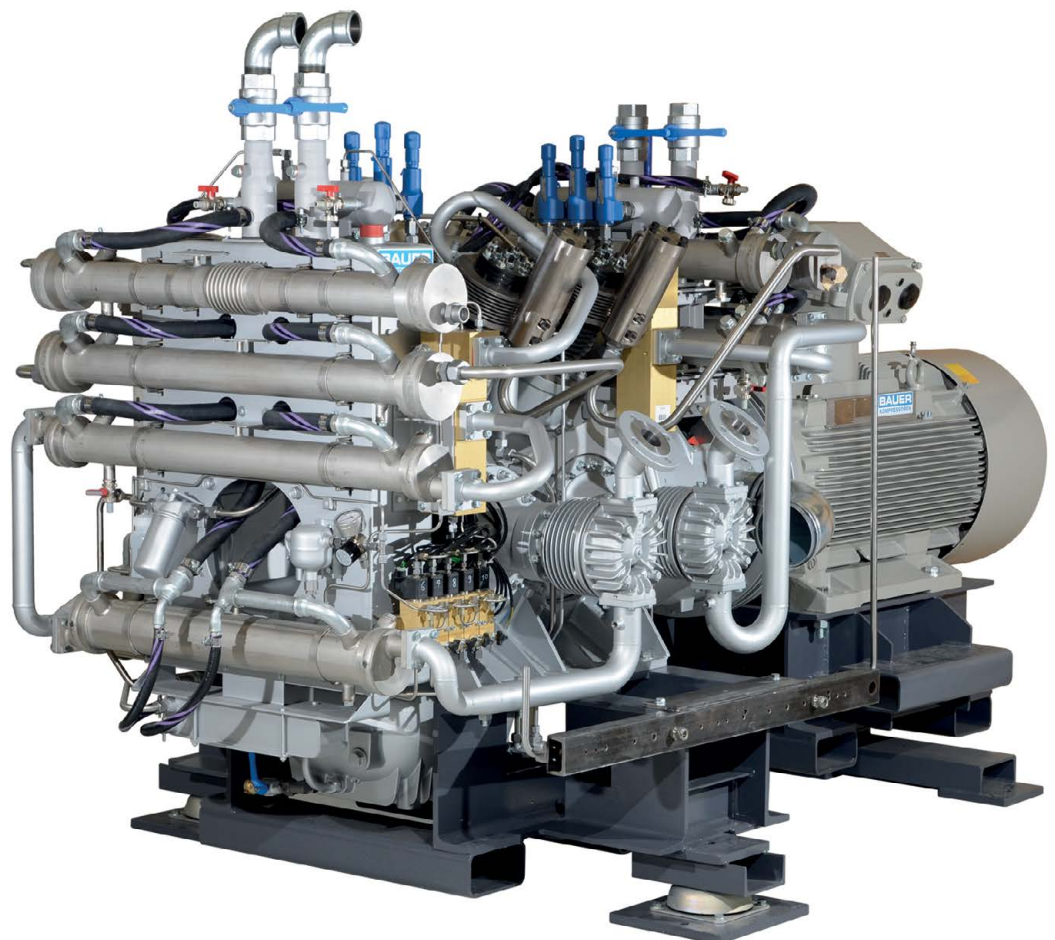
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Charging rate: 1,330 – 28,600 l/min

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Motor power: 37 – 315 kW

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### COMPRESSOR UNITS AND BOOSTERS FOR HELIUM & ARGON, AIR-COOLED AND WATER-COOLED

The innovative high pressure system technology from BAUER allows economic recovery and decanting of rare gases and mixed gases, with minimal gas losses. The compressors are controlled via the final pressure of the storage vessels and the filling level of the gas balloon or via the primary pressure.

A wide range of drive power and flows, gas-tight high pressure purification systems as well as gas metering technology complete these units.

For particularly economic operation, BAUER units are rigorously optimized for gas tightness.

The gas recovery from the automatic condensate drain device and the safety valves in the intake buffer and condensate collecting tank create a virtually closed system with no gas losses.

The units are perfectly adapted to the compression of helium and argon and equipped as standard with the compressor control B-CONTROL.

The rare gas compressors are tested under real conditions using helium or argon and delivered ready for use.

Pressure range: 25 – 420 bar

Charging rate: 85 – 24,800 l/min

Motor power: 22 – 250 kW



### NITROGEN GENERATORS

Integrated complete solutions for mobile or stationary use: with the proven membrane technology in combination with the reliable high pressure compressors from BAUER KOMPRESSOREN.

Pressure range: 345 – 414 bar

Charging rate: 133 – 756 l/min

Motor power: 15 – 45 kW



## COMPRESSOR CONTROLS

A major requirement for cost-effective and safe operation of complete BAUER systems is a powerful compressor control which is fully adapted to the system, therefore securely monitoring the unit functions. The B-CONTROL range ensures all requirements are met, with electronic controls that support the smallest compressor unit up to the most complex CNG refuelling station.

### B-CONTROL MICRO

The B-CONTROL MICRO is a modern, easy-to-use compressor control for the intelligent control and reliable monitoring of all basic functions.

The colour display shows relevant information including final pressure, oil pressure and temperature of the last stage. If maintenance is due, this is also indicated on the display. Users can choose between fully automatic and semi-automatic operation. In the event of deviations from normal conditions, the control will shut down the compressor automatically and indicate the source of the fault on the display.

Another 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.



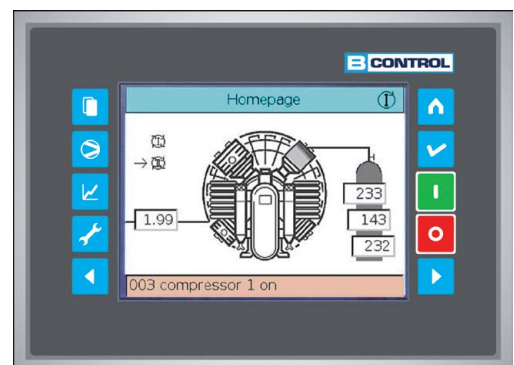
### B-CONTROL II

The BAUER B-CONTROL II is the advanced version of the basic compressor control B-CONTROL MICRO.

The 5.7" colour display touch screen with 10 keys displays the final pressure, oil pressure, the temperature of the last stage and the ambient temperature, among other values.

As well as supporting the control and monitoring of important unit functions, the B-CONTROL II also features user-friendly additional features such as a data logger, USB port and accessible interfaces such as Modbus, CAN Bus or Profibus. It can even be used for integrated control of an interconnected system with up to four compressors. Additional sensors and devices can be connected, for example, to monitor intermediate pressures and temperatures, for remote data transfer via B-MESSENGER, remote control via an external instrument panel, etc.

The B-CONTROL II can be customised and expanded to meet your individual requirements – even if these involve controlling end-to-end system sequences.



## EXPLOSION-PROOF EXECUTION

In this version, the power section, the electronic control unit and the operating panel are located in an external control cabinet which is situated in a separate, explosion-protected and weatherproof room.

## B-CONTROL SUPERIOR

As a superordinate and external control unit, the B-CONTROL SUPERIOR enables integrated operation with base and peak load as well as standby-duty operation. Up to five compressors can be controlled selectively as active (CAN bus), passive (via remote ON/OFF contact) or mixed.

It can thus be guaranteed that there is always a sufficient quantity of air available and that the compressors are subject to an equalized number of operating hours.

As a rule, the B-CONTROL SUPERIOR can be retrofitted to existing compressor units.



## B-MESSENGER

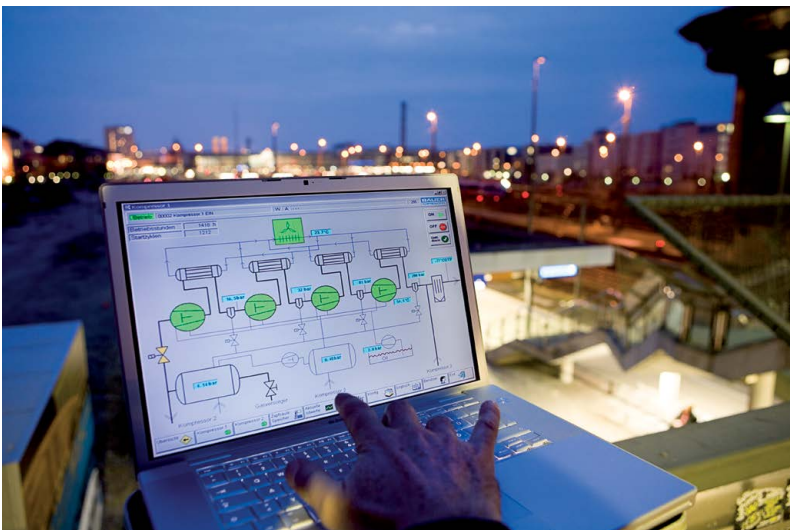
The B-MESSENGER allows remote access to the compressor via mobile radio/internet. Thus, it is possible to access the compressor control B-CONTROL II or B-CONTROL SUPERIOR from almost anywhere via PC or laptop, using protected VPN access.

In addition, warnings and malfunction messages can be sent from the compressor to the operator's mobile phone. In this way, the operator is always informed of the compressors' state, even from remote locations.

## REMOTE MAINTENANCE

On request, we offer comprehensive monitoring of your compressor unit from BAUER, in combination with our 24-hour service. Settings can be changed and/or adjusted round the clock using an online connection via the internet or mobile radio. Status messages such as operating hours and volumes of sold (air/gas) quantities can be transmitted as text message or e-mail, as can maintenance requirements or malfunction messages.

*Online connection round the clock*



## PURIFICATION OF AIR & GAS

For decades BAUER KOMPRESSOREN has been the leading manufacturer of high pressure air and gas purification systems. The purification of air and gases is indispensable for many industrial processes. Depending on the requirements, our purification systems reduce humidity, oil, hydrocarbons, CO, CO<sub>2</sub> and H<sub>2</sub>S, and particles to the level required by law and/or required during the process. We supply the system which suits your demands.

### P-SERIES PURIFICATION SYSTEMS

The P-series purification systems from BAUER KOMPRESSOREN are the classics amongst the purification systems from BAUER.

With decades of success behind them, these purification systems are well respected solutions in industrial high pressure applications for purifying air, nitrogen, helium, argon and methane. Accordingly, cartridges are individually tailored for the respective application.

The extensive product portfolio contains suitable variants for most compressors from BAUER in the pressure ranges 350, 420 and 500 bar. In combination with the SECURUS system from BAUER KOMPRESSOREN, moisture saturation of the filter cartridge is electronically monitored.

Pressure range: 90 – 500 bar

Charging rate: 200 – 3,500 l/min



### SECCANT – REGENERATION DRYER

These regeneration dryers operate in the pressure ranges 90 to 350 / 420 bar. SECCANT is suited for drying air and gases at high service performances and F.A.D.s or at higher ambient temperatures. Furthermore, the regeneration dryer is equipped as standard with electronic compressor control, soft change-over between regeneration and load cycle, as well as pre-separation and a particle filter. Even the basic version of the SECCANT is designed for easy integration into the complete system. Also, as required these dryers can be expanded to include activated carbon adsorbers for removing oil and transforming CO.

Pressure range: 90 – 420 bar

Charging rate: 100 – 3,500 l/min





### B-KOOL – REFRIGERATION DRYER

Depending on the ambient temperatures, the normal capacity of a filter cartridge can be extended up to eleven-fold by additionally cooling the compressed air using the refrigeration dryer B-KOOL. As a result of air cooling, the major part of the condensate is separated in the oil and water separator; therefore, the filter cartridge absorbs far less condensate. In this way, with the support of B-KOOL the unit's operator can reduce current cartridge costs to a minimum, thus protecting the environment by conserving resources.

Pressure range: 100 – 350/500 bar

Charging rate: 200 – 700 l/min



### CPF SYSTEMS

These cartridge filter systems purify air for use in Joule-Thomson coolers. To operate this kind of cooler, extremely high air quality is required. This applies particularly to humidity and CO<sub>2</sub> content. The most common standard describing this air quality is DEF STAN 58-96.

Throughout the entire cartridge life of our CPF system, the values remain far below the strict limiting values of this standard.

Pressure range: 120 – 420 bar

Charging rate: 30 – 1,500 l/min



### GAS METERING SYSTEMS

"Safety through measurable quality" is the principle to which our gas metering systems have been developed. Our customers have increasingly specific requirements relating to the purity of air and gases, such as described in DIN ISO 8573-1. Depending on the requirements, measurements can be performed on a random basis or during the operational phase.

For sampling, fast analysis or sampling devices for laboratory evaluation are available, such as AEROTEST for measuring H<sub>2</sub>O, CO, CO<sub>2</sub> and oil indication, or the RCS Oiltube for separate sampling in order to perform further analysis in accredited laboratories. Both systems are suitable for high pressure applications.

These gas measuring systems can be directly connected to the B-CONTROL, which allows the measuring values to be read and monitored on the compressor display.



## HIGH PRESSURE STORAGE SYSTEMS

**330 – 500 bar**

**50 – 2,400 l**

Modular high pressure storage systems from BAUER KOMPRESSOREN are the ideal complement to a compressor system, enabling the rapid discharge of greater quantities of air and gas and a constant volume flow rate. Simultaneously, the appropriate storage module ensures the optimal running time of the compressor and additionally serves as a pulsation damper. Our storage systems are available for the pressure stages 330, 360, 420 and 500 bar. Used with storage cylinders of 50 or 80 l, they can be extended at will. We offer vertical or horizontal storage modules.

Pressure range: 330 – 500 bar

Storage capacity: 50 – 2,400 l



## HIGH PRESSURE REDUCING UNIT FOR AIR & NITROGEN

The high pressure reducing stations from BAUER KOMPRESSOREN offer turnkey complements to the storage system. These stations are equipped with high-quality pressure reducers, gauges, ball valves and safety valves for secondary pressure and can be safely installed without major effort.



## DISTRIBUTION PANEL WITH PROPORTIONAL VALVE FOR AIR AND NITROGEN

By controlling the variables of pressure and time, the distribution panel FCC allows exact gas dosing in the high and medium pressure range.

Using the integrated PLC control, up to four proportional valves can be independently activated off one another. And this at a pressure of up to 400 bar!

The distribution panel FCC is already the fifth generation to be applied in the field of gas injection technology and has proven itself ideally suited for checking/testing.



## TURNKEY COMPLETE SYSTEMS

One of BAUER KOMPRESSOREN strengths is the construction and manufacturing of complete systems, which have to withstand particular climatic conditions and often operate autonomously in the world's most remote places. The climatic conditions may vary from extremely low temperatures in winter and salty, moist air to high desert temperatures and sand drifts.

## CONTAINERIZED SOLUTIONS

We can also offer all our compressors, purification and storage systems as containerized solutions. Optionally, the compressors can also be driven by diesel engines. Due to their relatively small footprint and adaptation to the conditions at hand, these systems are ideal for offshore applications, pipeline service and external installation.



## CONCRETE BUILDING SOLUTIONS

We offer industrial compressors for stationary installation in concrete enclosures, well-constructed as proven in the field of CNG refuelling stations. The complete systems are delivered fully plumbed, electrically connected and tested. With minimal effort and expense, our service team installs the turnkey units on site, integrates them into your existing infrastructure and puts them into operation. Versions for installation in ex-protection zones according to ATEX are available as standard.



## SKID-MOUNTED COMPACT UNITS

Complete systems mounted on a common base frame are especially suited for indoor installation in production halls or compressor rooms where a small footprint is essential. Whether for large-scale plants with primary compressors, buffers, gas mixers, downstream compressors and purification systems or for small units with storage cylinders, all skid-mounted solutions are delivered as turnkey, pre-tested units with the desired approvals and can be put into operation on site without problems.



➤ FUEL GAS SYSTEMS FROM BAUER.  
FOR ENVIRONMENT AND EFFICIENCY.



## MAKING A CLEANER ENVIRONMENT

Natural gas (CNG) and biogas are increasingly gaining importance as alternative fuels to petrol and diesel. Combustion of mineral oil products increases the impact on the environment as well as being highly expensive.

Natural gas has to be compressed to high pressures for transport, storage and selling on. Therefore, a high level of safety, proven quality of the compressor units and the purity of the natural gas are the essential requirements for safe and economic natural gas operations.



## OUR CNG REFUELLING STATIONS

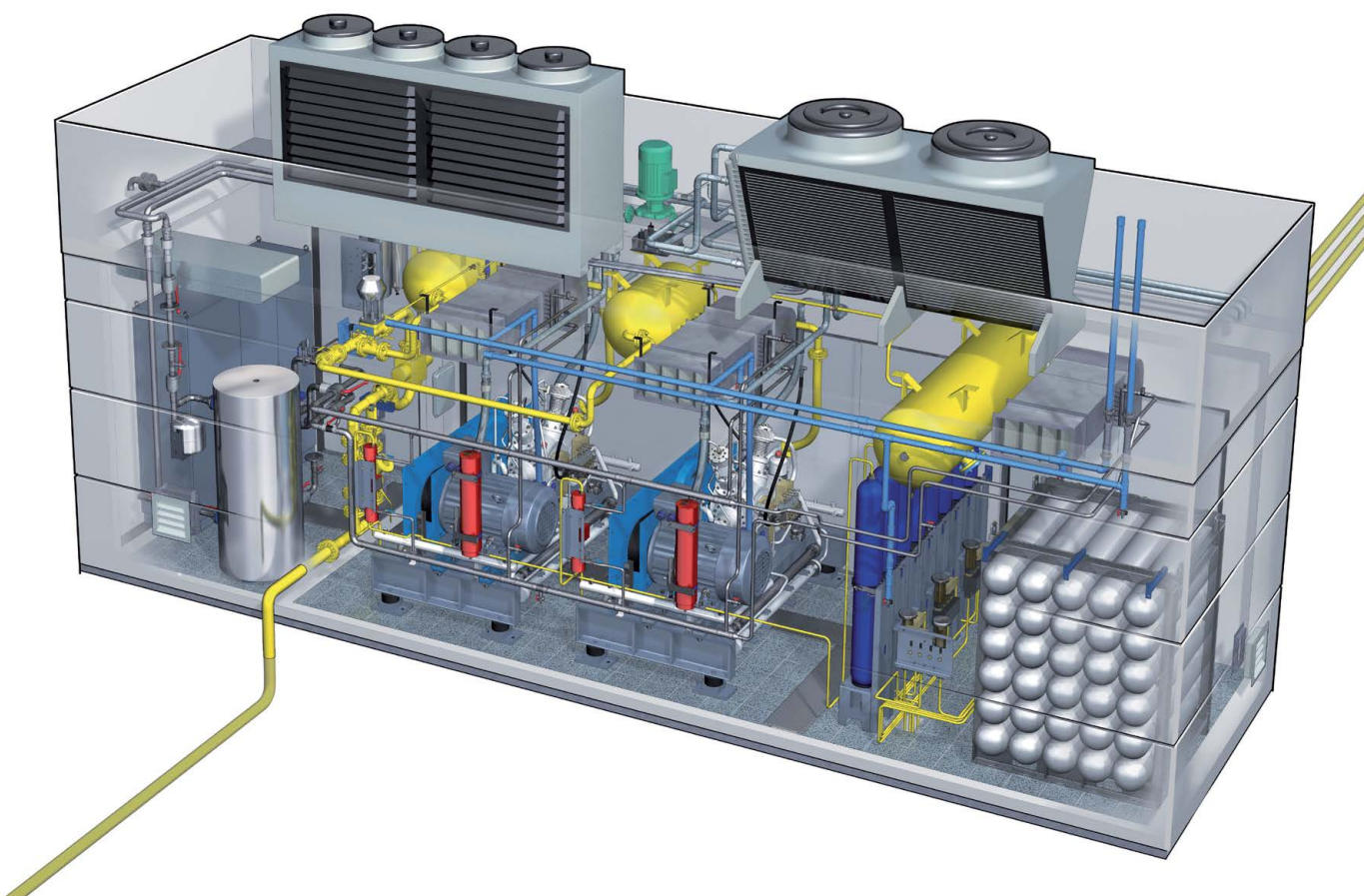
Whether for CNG, biomethane refueling stations, biomethane feed and recompression, natural gas engine test benches or other special gases – we are the high pressure specialists at your side. Our relevant expertise guarantees you the best possible advice regarding the design of your projects, for every application.

Our FGS systems are modular, scalable and renowned for their reliability. They enable custom tailored solutions to be supplied from a single supplier covering all system components such as compressors, gas dryers and purification systems, storage units, refuelling devices, and our own services. All system components are coordinated to run smoothly together.

We offer you: 100% BAUER quality, made in Germany.

## OUR COMPRESSOR UNITS FOR EACH APPLICATION

- › Range MICRO
- › Range COMPACT
- › Range CFS SMALL
- › Range CFS ECO
- › Range CFS LARGE
- › Mother-daughter refuelling system
- › Range INDOOR
- › Accessories



### E.ON GAS MOBIL – GERMANY

Around the turn of the millennium, the company "Erdgas Mobil," an initiative of what is today 12 energy supply companies, set itself the goal of creating an effective base of CNG refuelling stations in Germany.

Initiator and operator between these locations was E.ON under the name of E.ON Gas Mobil. However, such an efficient solution could only be realized subject to two major preconditions: On the one hand, the CNG compressor unit should operate reliably and independently and without staff; on the other hand, it should be controllable and monitored via widespread remote data transmission at all times.

To meet these challenges and high qualitative requirements, BAUER is assisting E.ON Gas Mobil as one of the most important technological partners. Thus, since the beginning of 2010 over 40 BAUER refuelling stations have been successfully put into operation, spread across the entire territory of the Federal Republic of Germany.



### ADNOC – UAE

ADNOC Distribution, a subsidiary of ADNOC (Abu Dhabi National Oil Company) is one of the biggest oil corporations in the Arabian Gulf, specialized in marketing and sales of petroleum products within the United Arab Emirates (UAE). Using the expertise of BAUER KOMPRESSOREN, ADNOC Distribution built a nationwide network of efficient CNG refuelling stations, making buses, communal vehicles and private cars mobile in an environmentally friendly way. An impressive paradigm shift in terms of environmentally friendly transport solutions.

Since 2008, BAUER KOMPRESSOREN has been the privileged CNG partner and supplier for ADNOC Distribution. During the realization of their showcase project in the Gulf region, over 20 units have been successfully installed, equipped to cope with extreme climatic conditions. Further expansion of the refuelling stations network is imminent.



## GAZPROM TRANSGAZ TOMSK – RUSSIA

Clean fuel for one of the most beautiful regions in the world.

The gasification initiative in Russia, envisages the increasing use of methane as clean fuel and, in addition to the creation of new sales markets for the region's natural gas, the protection of the environment is of primary importance. Thus, BAUER's co-operation with Gazpromtransgaz Tomsk within the untouched landscape in Gornij Altaj provided one of the newest generations of refuelling stations with state-of-the-art technology, developed for extreme conditions of  $-50^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ .

"Gazprom started a major project in the field of CNG for public and private means of transport. We took a close look at reputed compressor manufacturers from all over the world... At that time we decided to test compressors from BAUER on Gazprom devices ...here we see the result of our successful co-operation."

*Vitaly Markelov – Deputy Chairman of OAO "Gazprom" during the inauguration of the project.*



**ENTRY WITH THE MICRO RANGE / MFS120-ECO**

Small in terms of capacity, but uncompromisingly big on safety, the Micro range offers a very good entry level for low demand and for very confined spaces for refuelling your vehicles with CNG.

With an output capacity of up to 10 cars/day, the units are particularly suited for refuelling small fleets (cars or fork-lift trucks).



*Especially suited for refuelling small fleets*

Inlet pressure range: 0.02 – 0.3 bar

F.A.D.: 8 – 20 Nm<sup>3</sup>/h

**SMALL REQUIREMENTS – RANGE COMPACT / MFS15 – MFS22**

These units are well equipped for refuelling fork-lift trucks or fleet vehicles as they have been developed and constructed to meet the demands for particularly high safety levels as well as fit in confined spaces. This range can also be used for building up public refuelling stations and achieves a daily capacity of up to 100 cars/day or 10 lorries/day.

All the advantages of drying on the high pressure side, including monitoring the pressure dew point, are apparent with these compact units. This increase in safety is exceptional in this class. Owing to its modular system, the Compact range can be equipped with the type of compressor suitable for the application.

*Developed for a high safety level and confined spaces*

Inlet pressure range: 0.02 – 4 bar

F.A.D.: 20 – 70 Nm<sup>3</sup>/h





### MEDIUM REQUIREMENTS – RANGE CFS DUO SMALL

This compact and expandable unit has been conceived for especially high safety requirements, for example for large depots and public refuelling stations with a daily capacity of up to 200 cars/day or 20 lorries/day.

In its basic configuration, the CFS-DUO is initially provided to operate with one compressor and storage system. If the number of vehicles to be refuelled daily increases, the unit can be expanded by a second compressor (DUO II) and – if refuelling peaks increase – by a second storage bank without any problems. Because of its modular design, the CFS unit can be complemented by using one of the types of compressor suitable for the application.



Inlet pressure range: 0.02 – 4 bar

F.A.D.: 20 – 40 Nm<sup>3</sup>/h

### MAJOR REQUIREMENTS - RANGE CFS ECO / CFS DUO LARGE

The range CFS LARGE is especially suited for large public refuelling stations with a high daily capacity of more than 200 cars/day or 20 lorries/day. Flexibly constructed in two variants, it can be designed to match every situation.

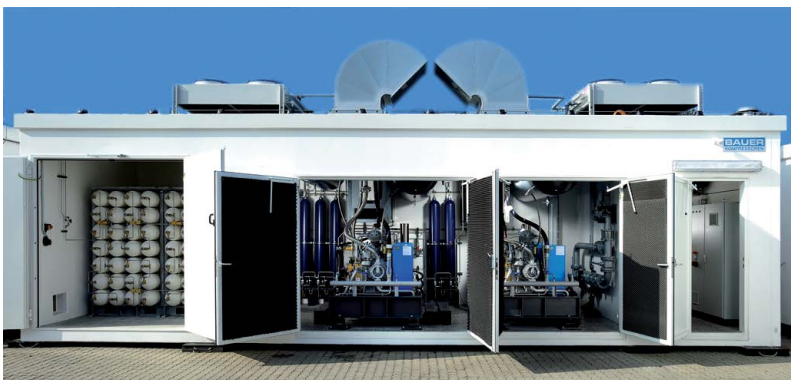
#### CFS ECO

With this ECO variant, a compact, space-saving refuelling unit is available in a space-optimized enclosure. Equipped with a compressor and a large storage system, this variant is the benchmark for high performance in the smallest space. For the ECO range, the size of a car parking space suffices!

#### CFS DUO LARGE

The variant CFS DUO LARGE is provided in its basic configuration for operation with one compressor (DUO I) and one storage system. If the number of vehicles to be refuelled daily increases, the unit can be expanded by a second compressor (DUO II) and, if refuelling peaks increase, by a second storage module without problem.

*Easily expandable in the case of an increasing number of vehicles to be refuelled*



Atmospheric inlet pressure range:  
0.02 – 1 bar

F.A.D.: 60 – 1,300 Nm<sup>3</sup>/h

Increased inlet pressure range: 2 – 38 bar

F.A.D.: 65 – 2,600 Nm<sup>3</sup>/h

## MOTHER-DAUGHTER REFUELLING SYSTEM

The mother-daughter refuelling system is the ideal concept for transportation and distribution of natural gas in regions where no pipeline network for natural gas exists.

From the mother station, the special mobile storage system MB7200 is filled with compressed natural gas by means of the integrated refuelling unit. Subsequently, the mobile storage system is transported to the daughter station and the content of the storage unit is filled into the daughter station. Mother station and daughter station are equipped with dispensers for further vehicle refuelling.

All ranges of the mother-daughter refuelling system are of modular design and can be expanded with no great effort or expense. They are designed for high performance and different pressure stages.

*The ideal concept for transportation and distribution of natural gas in regions where no pipeline network exists*



### Mother station (online station)

The design of the mother station is based on the CNG compressor types being used in the ranges MFS and CFS. All storage systems and refuelling installations which form part of the BAUER delivery programme can be combined with the compressor models of the mother station. The modular concept of the system enables the mother station to be designed in such a way that it can deliver medium or high daily capacities of more than 200 cars/day to the mobile storage systems MB7200. Based on the ranges MFS, CFS SMALL, CFS LARGE or CFS ECO, the mother station is available with both concrete and steel enclosures.

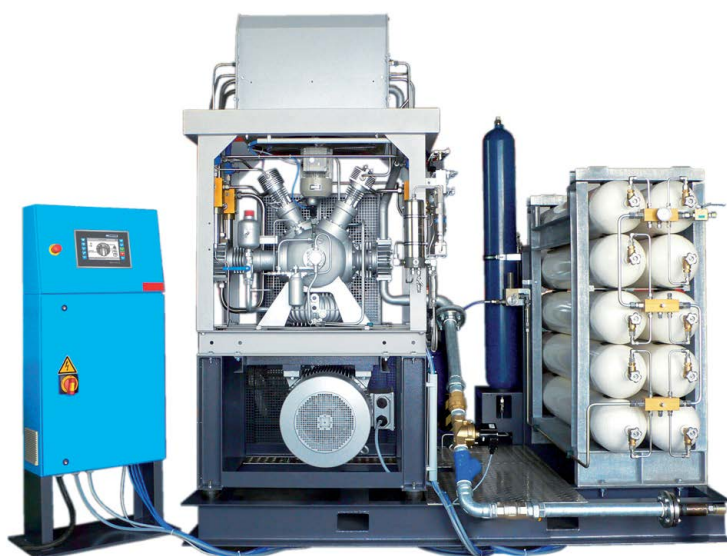
### Daughter station (offline station)

The booster daughter station has been successfully developed and launched for this special application. Its main task is to optimally use the natural gas stored under high pressure in the mobile storage system MB7200, to fill its own storage vessel and to maintain it ready for further refuelling. In the event that the storage vessel is full, the daughter station is also able to allow vehicles to refuel direct from the mobile storage system.

## INDOOR RANGE FROM COMPACT TO LARGE

If the customer already has a building available for the CNG application and the installation is to be carried out within an existing infrastructure, the CTA Indoor range is the right choice.

The refuelling units of the CTA Indoor range have been designed for indoor installation based on the CNG compressor types used in the ranges MFS and CFS. The modular construction of the system allows for low, medium or high daily capacities.



## ACCESSORIES FOR CNG HIGH PRESSURE APPLICATIONS

### Storage systems

The CNG high pressure storage system is built on individual high pressure vessels which are mounted together on a frame. The storage system is destined for indoor and outdoor installation and can optionally be executed in separate, weatherproof steel plate or concrete enclosure. The standard capacity is 10 to 42 high pressure storage cylinders with a filling volume of 80 litres per storage module. Thus, capacities of up to 1,107 m<sup>3</sup> natural gas at 300 bar can be achieved using a single cylinder storage module.

### Filling and refuelling control system

The control system regulates the priority filling of the high pressure storage system as well as the sequential gas extraction from the high pressure storage system. It is possible to control one or several filling lines.

### Filling post/CNG fuelling pump

These are used for depot refuelling or for public refuelling stations. The dispensing device can be executed with a calibrated flow meter, display of the discharged fuel amount in kg or m<sup>3</sup>, indication of the specific gas price and of the total price in the desired currency.

The filling process is regulated by the filling and refuelling control system. Thanks to the integration into the overall control system from BAUER, economic refuelling with short filling times is ensured.

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*Expandable at any time thanks to its modular design*

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## BIOMETHANE APPLICATIONS

In recent years, purification of biomethane has become increasingly established. It is possible to use biomethane directly, as an alternative to feeding it into the natural gas grid. In both cases, the purified biomethane is compressed and made available for further transportation or storage.

In addition to biomethane filling stations, which provide biomethane as fuel for vehicles under the same conditions as for natural gas, and based on its long-standing experience with high pressure systems, BAUER has developed and successfully realized the following biomethane applications:



### 1 Feeding of biomethane into the natural gas grid

Feeding of biomethane into a natural gas grid assures a good supply covering a large area and a guaranteed delivery of biomethane. Feeding biomethane using BAUER's proven technology can be carried out for different network types with pressure stages from PN10 (10 bar operating pressure).

### 2 Recompression into a higher-level network

This application is closely related to the production of biomethane and is the ideal system for seasonal compensation of transport network fluctuations and network overloads. In the event of overload of a low pressure line, for example by using increased feed-in of biomethane, the excess natural gas / biomethane mixture can be transferred into a higher-level network and fed into it. In this way, existing buffer volumes in high pressure transport networks can be used advantageously, thus preventing possible gas flaring.



## NATURAL GAS SUPPLY OF ENGINE TEST BENCHES

The development of CNG-driven engines requires extensive testing under real conditions. For this reason, continuous running operation is simulated under extreme conditions, checking the engine characteristics and performance data in detail.

BAUER KOMPRESSOREN has developed and successfully launched special systems for supplying CNG to engine test benches. Whether for supplying a single test point or several in parallel, whether for new installations or for expanding existing test benches – we offer solutions made to measure and, of course, in accordance with the local and international regulations.

The natural gas supply is designed to match the existing infrastructure and in accordance with the effective needs of the test benches. CNG transfer points with the required final pressure, the corresponding safety infrastructure and data interfaces for the test bench control station complete the safe supply of gas.

All system components, such as compressors, gas dryers, system controls, storage units and transfer points, are products made by BAUER KOMPRESSOREN and are based on our long years of experience with high pressure systems. They are coordinated to run smoothly together. The modular design of the system makes it possible to achieve small, medium or high daily capacities, according to the needs of the engine test benches.

A male technician with short brown hair, wearing a blue polo shirt, is focused on working on a piece of industrial machinery. He is looking towards the camera with a slight smile. The machinery is blue and silver, with a large fan-like component in the foreground. A blue cable is connected to the machine. The background shows a clean, industrial setting with blue and white panels.

➤ FOR US, SERVICE IS ALL PART OF THE PRODUCT.

BAUER  
KOMPRESS

## EVEN OUR SERVICE IS IN A CLASS OF ITS OWN.

BAUER KOMPRESSOREN is here for you, all around the world. With our 22 subsidiaries and over 50 national representatives with their extensive service network, we offer our customers the shortest possible service routes, together with a comprehensive range of services ranging from spare parts delivery to service contracts and an extensive training programme.

## SERVICE CONTRACTS

The satisfaction of our customers is our benchmark. That is why BAUER KOMPRESSOREN supplies you not only with the product, but also the service package which precisely meets your requirements. Choose from a wide range of grades and variants: from a simple and low-priced inspection contract up to a full service or 24-hour contract.

## MODERNIZATION

If needed, we will update your compressor unit to state-of-the-art technology – for example, when replacement of a pressure vessel is due or a purification system with increased capacity is required. We update electrical controls and programmes or we replace your old compressor block for a new one.

## REMOTE MAINTENANCE

Comprehensive monitoring of your compressor unit from BAUER, in combination with our 24-hour service.

If required we can offer comprehensive monitoring of your compressor unit from BAUER, in combination with our 24-hour service. Settings can be done around the clock using an online connection via the internet or mobile. Status messages such as operating hours and volumes of sold (air/gas) quantities, maintenance requirements and/or malfunction messages are transmitted as text message or e-mail.

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*BAUER Service: from simple inspection up to a full service contract.*

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## SPARE PARTS

Because true quality remains important even after decades, you are guaranteed spare parts for years, even for models which have not been included in our delivery programme for many years. BAUER KOMPRESSOREN keep stocks of all spare parts for models for as long as 25 years after discontinuation of the respective compressor type – and these parts are available for delivery immediately. Even spare parts for very old models can be delivered on request. The supply of spare parts for units under 5 years old is possible within 24 hours! For electronic components such as controls, BAUER KOMPRESSOREN offers a replacement service. Parts in need of replacement are returned and replaced with an equivalent, tested component. The repair times normally involved are no longer critical.

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*Spare parts on stock until 25 years  
after production stop*

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## RENTAL UNITS

Even if you need a rental or exchange unit, BAUER will provide you with fast and uncomplicated support, so that your operations can continue seamlessly and smoothly. Rental and exchange units are available in the usual sizes. Returning or trading in old units is also possible. In case of outstanding maintenance works, we can place replacement units at your disposal for the duration of the works.

## TRAINING

In order to continuously keep your personnel up-to-date, we offer our customers an extensive practice-based training programme. Here, we share our expertise directly with users and operators with easy-to-understand courses that are adapted to individual requirements. Training for all BAUER units, controls and accessories takes place at qualified BAUER locations or service partners; also, if you wish training is possible at your company.





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The product overview catalogue from BAUER shows the major part of our units and accessories programme. For further information and detailed technical data, comprehensive product brochures are available.

The performance information mentioned is intended as a broad overview and is drawn from the respective product sectors.

Breathing air: Charging rate measured by means of cylinder fillings  
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Industry: F.A.D. measured according to ISO 1217; DS range according to DIN 1945

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