



B-NEWS

THE NEWSLETTER OF BAUER KOMPRESSOREN

BAUER
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Quality. Our DNA

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EDITORIAL



Philipp Bayat, Dr. Monika Bayat, Heinz Bauer (v.l.n.r.).

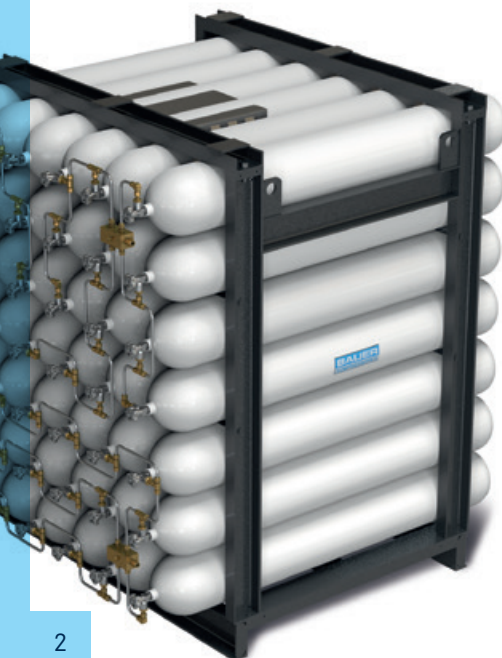
In the last issue, we presented our new location in Romania, which we established to complement our existing production plant in Geretsried. On the one hand, it was necessary in order to cope with the challenging delivery situation, and on the other, to be able to process the favorably high number of new orders efficiently. Based on the results of the past few months, we can draw an extremely positive conclusion. The additional production capacities have already made a significant contribution to reducing backlogs, and we will see further acceleration in the first half of 2024. We can also boast substantial new developments regarding our products. While the focus was on the new industrial blocks in the first half of the year, we are now concentrating on the breathing air sector. Visitors will be able to admire a wealth of new products at the boot trade fair in Düsseldorf in January 2024.

Heinz Bauer, Dr. Monika Bayat, Philipp Bayat

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BAUER in Action

It can be seen from almost every point in the city: The World Balloon, one of the largest helium balloons in the world, has been THE attraction in central Berlin for years.



From a height of 150 meters, up to 30 passengers can enjoy a unique panoramic view of the city. Recently, there was an urgent need to replace the balloon envelope, which had aged over the years. To do this, the helium used in the balloon had to be removed. The aim was to simultaneously recover and process a total of 3,750 m³ of this extremely expensive and difficult to obtain carrier gas. Over time, almost 100 kilos of water vapor had entered the balloon, which significantly reduced its load capacity. Andrick, a Berlin-based engineering company specializing in compressed air technology, was commissioned to carry out the job. As a specialist in high-pressure applications and gases, they had the expertise to undertake this technically demanding task. In cooperation with

BAUER KOMPRESSOREN, a sophisticated system was developed that made it possible to compress the removed helium to 220 bar and dehumidify it



Helium storage bundle for balloon filling

to prepare it for temporary storage until it could be reinserted. The complete system consists of a shipping container with a VERTICUS G18.1, a P61 gas purification system, and a storage solution consisting of 6 cylinder bundles. The next step was cleaning and recovery using the circular principle. This project has proven to be so successful that it will be offered worldwide as a transportable container solution in the future.

More information:
www.andrick.de



Independent Thanks to Biogas

Since the attack on Ukraine, oil and gas have become scarce and therefore expensive. At the same time, the existing funding from the “Renewable Energy Act” for generating electricity and feeding it into the public grid has been abolished. As a result, operators are faced with a significant loss of income. The Schulze farm in Seelow, Brandenburg, was also affected by this with its biogas production plant directly financially affected by the new situation. Instead of surrendering, Martin Schulze set out to develop an intelligent and economically advantageous self-use concept. In this way, he was able to transform the disadvantages into an economic advantage. This was made possible through the use of methane gas-powered tractors in connection with a biomethane filling station from BAUER KOMPRESSOREN. The new gas tractors from the manufacturer

“New Holland” are gradually replacing the diesel models previously used on the farm. In the future, they will be operated entirely with self-produced biogas. This means Schulze is killing two birds with one stone. Since electricity produced from gas has to be fed into the network at a low price, it replaces expensive diesel. To do this, however, the raw biogas must first be cleaned, processed, and compressed to a pressure of 300 bar for fueling. This requires a turnkey solution tailor-made for the needs of the company. The resulting system consists of a Pöttinger gas processing system and a downstream compressor system from BAUER: The VERTICUS compresses 16 m³ of biomethane per hour, which is processed in the integrated P61 purification system and compressed into a B 800 storage bank. The storage ensures that there is always enough biomethane available for refueling the tractors. The refueling itself utilizes a Fastfill pump coupled to the tractor via a filling hose. After

“ Regardless of the biogas electricity tariff according to the EEG, I think it is necessary to take new paths in fuel supply. As a pioneer in the field of natural gas compression, BAUER is the ideal project partner for me.

MARTIN SCHULZE

a year of operation, the economic balance for Martin Schulze is extremely positive, and he is happy about the fact that he can make an important contribution to sustainability and climate protection.



Thanks to his new BAUER depot filling station, Martin Schulze now drives climate neutrality.

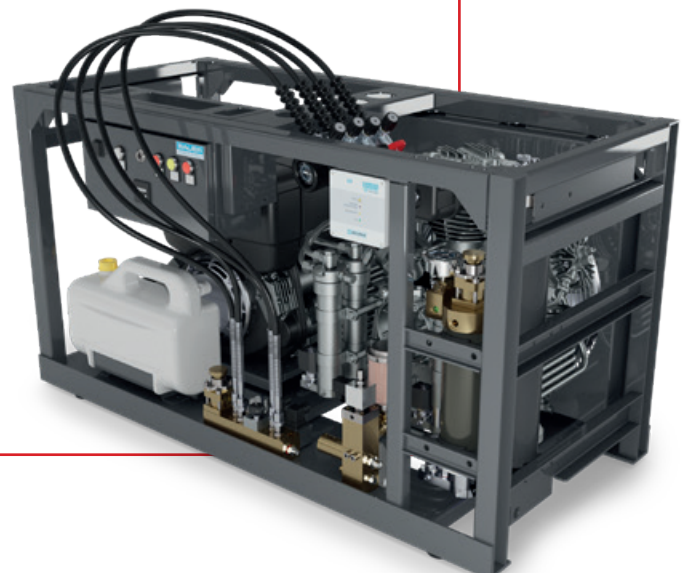
Product Campaign



MARINER320-D – POWERFUL AND ROBUST

The new MARINER320 in the diesel version brings an impressive increase in performance to the PROFI LINE diesel range. The use of a new block combined with a powerful diesel engine has almost doubled the maximum delivery capacity of the series, from 170 l/min to 320 l/min! It is designed for both short and long-term running, regardless of location. The use of corrosion-resistant materials makes it ideal for use under harsh environmental conditions such as onboard ships or drilling platforms. The crash frame, made of high-quality steel, provides not only excellent rigidity, but also outstanding allround protection for the entire system. The proven P31 filter system ensures 100% clean breathing air. Optionally, the system can be equipped with the larger P41 filter system in combination with a B-SECURUS, which reliably monitors the saturation of the filter cartridges. The MARINER320-D also has great features in terms of ergonomics and controls. The

automatic condensate drain offers a big upgrade regarding ease of use. A newly added robust hardwired control ensures simple and safe operation. Also newly added is the option to equip the system with an electric start function. The sophisticated frame design allows the unit to be stacked for easier storage and makes it easy and safe to load. This new addition to the BAUER range is the perfect choice for anyone who relies on a powerful, location-independent, and reliable supply of clean breathing air.



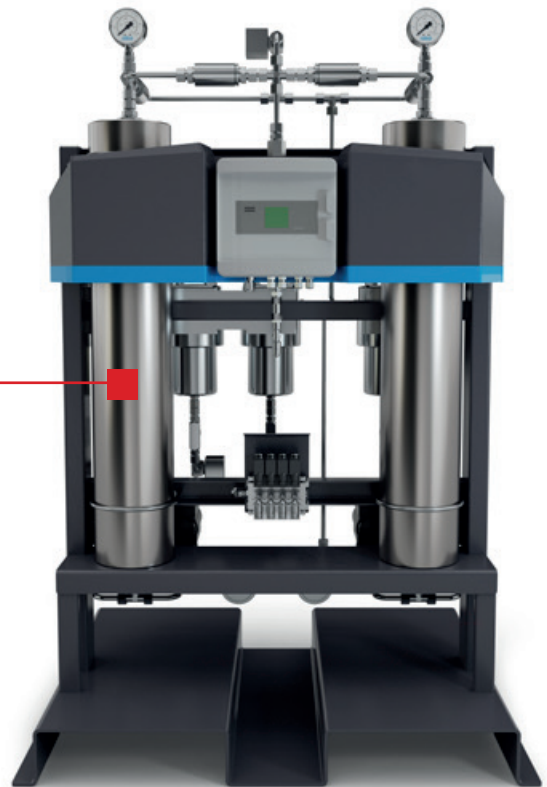


PE-NITROX MEMBRANE

With a new membrane system, BAUER KOMPRESSOREN offers a very attractively priced all-in-one solution for NITROX production with up to 40% oxygen content. The oxygen content in the mixture is continuously measured during operation. The system is designed for continuous operation and can easily be used in a wide variety of environments. With CE Certification, it meets all required safety standards. The smartly designed SUPER SILENT housing provides uncompromising BAUER safety and quality in a particularly compact form. The membrane is mounted as a compact unit on the side of the housing and the compressor, refrigerator dryer, and filter system are integrated inside to save space. The system is controlled via a robust hardwired solution that is intuitive and easy to use.

POWERFUL AND ECONOMICAL: THE NEW SECCANT REGENERATIVE DRYERS

Compared to standard filter systems, the BAUER SECCANT regenerative dryer has been tried and tested on the market for decades and has proven extremely cost-effective because long cartridge life eliminates the need for frequent replacement. The existing SECCANT range has now been expanded to include particularly powerful models. Thanks to high flow rates and an extended pressure range of 25 to 420 bar, the new generation of regeneration dryers greatly expand possible applications. The standard pressure dew point of the new devices is -20°C , although dew points of -40°C and -55°C are possible depending on customer requirements. They are also a tailor-made addition to BAUER's recently introduced BM Medium-Pressure Series. The SECCANT line now offers a field of application for all systems with a delivery quantity range between 500 and 30,000 l/min.



**BAUER KOMPRESSOREN**

“ I can rely on BAUER air 100 percent.

For my global diving projects, I often travel to remote areas and work under extreme environmental conditions. Success depends on the safe supply of clean breathing air. I will never compromise here! **GERALD NOWAK**



Thousands of salmon migrate up the Frazer River.

BAUER on Tour

When adventurers, researchers, and conservationists go diving, a breathing air compressor is always a necessary part of the expedition equipment, usually powered by petrol for a location-independent supply of breathing air.

The more remote and inaccessible the goal is, the bigger the role portability and 100% reliability play in the success of the mission. The first choice in these situations is usually the portable line from BAUER, especially the JUNIOR II, which has been tried and tested over the decades. If the system can be operated from a stationary ship and larger quantities of air are required, mobile systems such as the MARINER and PE-TE series are often used. They impress with a combination of great

breathing air delivery in a compact size. ■■■

Salmon run and wreck exploration

Gerald Nowak, well known in the German underwater photography and journalism scenes, had long had a special project on his travel agenda: The Salmon Run in Canada, more precisely at Lake Shuswap in the western province of British Colum-

bia, to photographically document the migration of the salmon along the Frazer and Thompson rivers up to their breeding grounds. It is a magnificent spectacle that takes place every 4 years! The biggest challenge was organizing the transport of equipment into remote areas. The Canadian representatives from BAUER provided a JUNIOR II on loan, which, thanks to its compact dimensions, easily fit in the loading area of the off-road vehicle parking lot. The bottles were filled before sunrise in



Remote fjords in Norway demand self-sufficient supply of breathing air.

order to make full use of the short span of ideal photogenic lighting from the late morning to early afternoon, which highlights the fiery red undersides of the salmon that are ready to spawn. Needless to say, the JUNIOR performed its service reliably, allowing for the success of the expedition.

On the road with the JUNIOR II

The JUNIOR then went on tour to Norway: A long planned, six-person diving team expedition from the tech magazine "Wetnotes." A narrow three-week window was open in August to complete a tight program of almost a dozen exploratory dives to various ship and aircraft wrecks from the Narvik area to the Lofoten islands. A BAUER system was chosen for the air supply. Here in the Arctic Circle there are often harsh conditions, even in summer, and the water temperature rarely rises above

12°C. Clean, dry breathing air is extremely important here, as moisture can quickly lead to life-threatening icing on diving regulators during cold water dives. Thanks to its low weight and compact dimensions, the JUNIOR fit perfectly on the trailer. The gasoline drive allowed the team to have a completely self-sufficient air supply directly on the pier next to the boat. Almost all of the targeted destinations were successfully dived.

The first of several exciting articles about the dives will be published in the January issue, No. 51.



More information
www.wetnotes.eu



Thanks to the trolley and petrol drive, the bottles can be filled directly on the boat at the pier.

BAUER KOMPRESSOREN

BAUER International

Bauer at Agritechnica



Climate-neutral refueling with biomethane

Biomethane is gaining ground as a sustainable and climate-neutral fuel. This is evidenced by the number of visitors and exhibitors at trade fairs, such as Agritechnica, the world's leading agricultural fair, which was recently held in Hanover. BAUER KOMPRESSOREN presented its particularly economical system for farm fueling stations as a co-exhibitor with New Holland. The VERTICUS CTA 15.2 high-pressure compressor, optimized for biomethane refueling, in combination with the Fillpost pump, is perfectly designed for refueling the new methane-powered tractors models.

New Plant in Romania

The new production plant in Brasov, Romania, celebrated a successful first year in the presence of the BAUER GROUP management. It launched at the end of 2022 to serve as an addi-

tional production location to support the BAUER GROUP's rapidly growing business, and at the same time to better cover the increasingly important Eastern European markets.



BAUER Romania celebrates its first anniversary

Workshop in Turkey

Safe, clean breathing air quality is becoming increasingly relevant for divers when choosing a base at their vacation destination. It has thus become an important criterion for standing out from the competition. Many local diving schools have also noticed this. This is why operators are

showing a growing interest in online monitoring of breathing air quality and BAUER PureAir certification, as demon-



Practical training on the B-DETECTION PLUS mobile

strated by a workshop held by our Turkish partner Enkosan. A total of around 30 customers took part in the one-day event in Marmaris, which provided comprehensive training on all aspects of breathing air quality and the BAUER product portfolio. Due to its great success, further events are firmly planned for the future.

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