

B-NEWS

THE NEWSLETTER OF BAUER KOMPRESSOREN

BAUER
KOMPRESSOREN

Quality. Our DNA

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75
1946 - 2021

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EDITORIAL



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

Quality. Our DNA. –this is much more than just a claim. It is an attitude that serves as the foundation for all our actions. Since the founding of BAUER KOMPRESSOREN in 1946, we have been at the top thanks to excellent quality and, thanks to constant innovations, we set the technical standards in the market. At the same time, BAUER products stand for sustainability and stable value. The best example of this is the JUNIOR, which has sold hundreds of thousands of units and is celebrating its 30th anniversary this year. Thanks to its quality and reliability, it has become synonymous with small portable diving compressors. But we are not resting on our laurels, we are constantly driving forward the development of innovative products. The best examples of this are the fields of measurement technology, biogas, and hydrogen. Thereby new iconic products can also celebrate their anniversaries in the future.

Heinz Bauer, Dr. Monika Bayat, Philipp Bayat

BAUER KOMPRESSOREN

30 Years of JUNIOR

Over three decades of manufacture, the JUNIOR portable diving compressor has remained essentially unchanged and still has as many enthusiastic fans as it did on the first day. This represents an extraordinary success story in our fast-moving times!

in 1994, shortly before the turn of the millennium, the JUNIOR, a completely new portable breathing air compressor, was premiered to the public. No other compressor on the market offered this unique combination of compactness, low weight, and durability. Designed as a small, portable system, it weighs just over 40 kilos and fits easily into even the smallest car boot. Its price makes it affordable for private divers and the petrol version can be transported to any diving spot without much effort. It is no wonder its sales were like wildfire. The limited special edition in neon colours in the late 90s were particularly hot commodities. It would undergo several updates over the next three decades, making it the world's most successful and best-selling breathing air compressor. But let's go back to

the beginning because the DNA of the JUNIOR- and this is the basis of its success- contains the essence of all portable BAUER systems of the past 40 years. It all began with the forefather of all mobile diving compressors, the UTILUS, in 1956, whose delivery capacity of 100 l/min is the same as that of today's JUNIOR. But with its significantly larger dimensions and a weight of 65 kg, it was not yet so easy to carry. Based on the UTILUS, the BAUER diving program developed in two directions: Larger and more powerful systems such as the MARINER and CAPITANO were aimed primarily at diving centers. In addition, smaller portable systems such as the PURUS were developed, albeit with a smaller delivery volume. They were mainly used in small diving

clubs and on expeditions. With the boom in the diving market in the 80s and 90 and a still relatively low density of diving schools, many private divers wanted more independence in the supply of breathing air. BAUER recognized this mega trend and commissioned the development of the JUNIOR. The project represented a real challenge for the developers: it had to be as compact as possible, affordable for everyone, but of course, as a BAUER product, uncompromising in quality! The original JUNIOR from 1994 still had a fan and belt guard made of sheet metal, which gave it a distinctive, angular look. Just three years later, the JUNIOR II took over. Equipped with the identical, proven compressor block and sophisticated TRIPLEX filter system, it was given a completely new look with its rounded plastic cover. This not only improved its handling, but also helped to save weight. The B-TIMER, developed in

2004 specifically for the TRIPLEX filter system, brought additional utility. Its display now showed necessary filter changes and maintenance at a glance. The bestseller entered the next stage of evolution in 2022. All cover parts were completely re-engineered. The new development of the fan guard in collaboration with the Technical University of Munich focused this time on an optimized flow around the cylinder stages for even more perfect cooling. With these improvements, the JUNIOR II in its new "state-of-the-art" design will continue its unprecedented success story well beyond its anniversary year in 2024 and supply countless future divers with safe and pure BAUER breathing air.



The JUNIOR 1995 as a special edition for the company's 50th anniversary, one year after its market launch in the petrol-driven version



In 1997, the JUNIOR, here in the AC version, received a new fan wheel and belt guard made of special impact-resistant plastic.



The third generation from 2022 will continue to shine with, among other things, further optimized cooling air flow and state-of-the-art design.

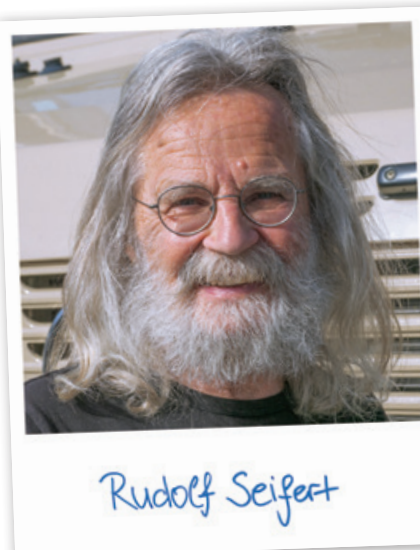


Marianne and Rudolf Seifert live a special life: freedom, adventure, and traveling to distant countries has been their everyday lives for decades. First as operators of a diving base in the Mediterranean and the Middle East, then around the world in a Landcruiser in 4 years. Now it's that time again! They're heading to Southeast Asia and this time the focus is on diving. On board the expedition vehicle is a JUNIOR II, which provides the necessary breathing air.

BAUER KOMPRESSOREN

Globetrotter with JUNIOR

Giving up your home, selling your own house, converting an expedition vehicle and driving around the world in it - that alone takes a lot of courage! But to do this like Marianne and Rudolf at the ages of 75 and 79 really demands the utmost respect and admiration! However, it is not their first tour of this kind. 20 years ago they already undertook a trip around the world in a Landcruiser converted into a living space. This time the trip will initially take them to Southeast Asia. A fixed route? There is no such thing at the moment, nor is there a time limit! New on this trip: a diving compressor on board the former fire department Unimog, which has been specially converted in expedition



Rudolf Seifert

style. The rear box serves as storage space for two complete sets of diving equipment. In the 1970s, Rudolf managed the Royal Jordanian Diving Center, under the patronage of King



Marianne Seifert

Hussein, on the Gulf of Aqaba/Jordan. The diving grounds there are an El Dorado for underwater photographers and aquarists and are known for their



Diving school Cala Canyamel in Mallorca in the 70s



diverse flora and fauna. Because of his good experiences with the CAPITANO breathing air compressor used there, he has once again opted for a model from BAUER. The upcoming adventure tour requires the highest level of reliability from all the equipment. For reasons of mobility and size, he has chosen a JUNIOR II

this time. The portable classic from BAUER KOMPRESSOREN may already be ten years old as a used device, but thanks to its robustness, it is still a real "youngtimer". Purely for safety reasons, it received another small "freshening up" in the form of a major service at the BAUER Customer Support Center. Its petrol engine will

give the couple complete independence in the future. Compact as it is, it fits perfectly into a side compartment of the vehicle that is accessible from the outside, immediately ready to fill bottles for a spontaneous dive in the most beautiful areas on the route, wherever the two globetrotters happen to be.

BAUER KOMPRESSOREN

TAUCHEN Magazin with JUNIOR on Summer Tour

At the end of May 2024, the leading diving magazine went on a summer tour again, visiting diving bases, events, testing equipment and exploring new diving spots. This only works with highly pure breathing air. This is supplied to the editorial team by a JUNIOR II diving compressor, which is on board the diving mobile. Equipped with a gasoline engine for maximum independence from the local power supply. Diving editor-in-chief Alexander Kaßler personally picked up the new JUNIOR from the factory in Geretsried south of Munich and immediately took the opportunity to take a detailed look at BAUER KOMPRESSOREN's plant production during a guided tour.



Alexander Kaßler, editor-in-chief of the largest German-language diving magazine "Tauchen", is looking forward to diving with the new JUNIOR II.

BAUER Internal

Whether it was driving training, fire safety exercises, vision training, or a ski trip, BAUER GROUP employees were once again given ideal opportunities to combine fun and learning at numerous events this year.

BAUER Fire Drill

In several groups, the employees of the BAUER GROUP at the Munich and Geretsried locations had the opportunity to refresh their knowledge in the annual fire safety drill. It is extremely important for both the fire safety assistants and all employees to know what to do in the event of an emergency in order to combat damage to life and limb as well as company property quickly and effectively. Senior boss Fred Josef Pelger of the fire protection company of the same name passionately imparted important theoretical knowledge about proper fire-



The right extinguishing agent for every fire!

fighting, and his son Matthias provided practical training behind the building with real fire extinguishers and a gas flame source. For most of our colleagues, it was probably a completely new experience to be able to fight a fire with a real fire extinguisher. The enthusiasm and commitment of the employees involved in the "real use" was correspondingly great.

BAUER Vision School

The health of employees is an important concern for the management of BAUER KOMPRESSOREN. At the recent health day, employees showed a particular interest in vision training. No wonder, because working on a screen in particular puts immense strain on the eyes. Therefore, a separate intensive training course was offered to a large group of interested people afterwards. The certified vision trainer Elisabeth Schmidt not only imparted profound knowledge and understanding of one of our most important organs. In the two-hour course, par-



Vision trainer Elisabeth Schmid



The correct use of a fire extinguisher must be learned.



Heinz Bauer bids farewell to the participants personally.

ticipants learned important practical exercises to effectively relieve and train the eyes.

BAUER Ski Trip

The traditional BAUER GROUP ski trip has never been so numerous and international! Almost 60 colleagues from BAUER KOMPRESSOREN, UNICCOMP and ROTORCOMP boarded the two waiting buses in Munich and Geretsried. In Kaltenbach in the Zillertal, another seven participants joined them, including representatives from the Austrian sister company. The weather was perfect: the sky only clouded over at the end of the day. But by then everyone was already sitting comfortably in the "Postalm" event location, enjoying excellent Tyrolean cuisine and then joining in the hustle and bustle on the dance floor.



For years, the Postalm in Kaltenbach has offered the ideal setting for a perfect end to a great day's skiing.

BAUER Driving Training

The black Mercedes leans until the spoiler almost touches the ground, circling a pylon in a tight radius. Half a dozen other vehicles chase after it in a wild slalom. Filming a new James Bond? No, the "chase" is purely for safety reasons! To be more precise: the safety of BAUER employees. And Stefan Kandler from "Saferide", who coordinates the whole thing by radio, is not a film director, but is leading a driver safety training course on behalf of the traffic safety association. Dragan, the driver of the Mercedes, and Andrea in the Ford Mondeo following behind both work in BAUER GROUP companies. They are learning a lot of new things today so that they can drive their cars even more safely on the way to work and on business trips in the future. For several years now, the works council has been

organizing driving training for cars and motorcycles for interested colleagues, with strong support from management, through the professional association. An offer that, according to coordinator Gerald Müller, is being used enthusiastically. After all, where else do you have the opportunity to combine safety and driving pleasure in this way, testing your own car to its limits without danger in order to better understand how it behaves in extreme situations? When asked after completing the driving training, Andrea and Dragan are firmly convinced that they have learned to assess and avoid risky situations more safely in the future.



"Thumbs up" from Dragan and Andrea for the great driving training!



BAUER KOMPRESSOREN

ROTORCOMP at a New Location

The new ROTORCOMP site brings the BAUER GROUP companies in the Munich area even closer together. Special focus was placed on the design concept in order to create the best possible working environment for all employees.

A change of scenery is generally good: the new surroundings create new perspectives and the move helps to shed old baggage that has accumulated over the years and decades. This applies not only to us as people, but also to companies. The subsidiary ROTORCOMP has now been able to see this after moving its location from Germering to Pullach. Under the personal aegis of Dr. Bayat, the new premises were lavishly designed by a

design agency in order to offer employees an optimal working environment with a feel-good character. The bright rooms are decorated in light colors. Large text frames on the walls show artistically photographed product details and at the same time ensure optimal noise insulation with sound-absorbing special acoustic foam. Anyone who makes an espresso in the coffee lounge on the upper floor can imagine themselves in a fine

” The new location offers us a perfect working environment.

The move from Germering to Pullach was a challenge for all of us. Now we benefit from a beautiful, modern office space and a better connection to the production site in Geretsried.

DR. STEFAN ZETTL



site, now allows short distances for business trips. In addition, by closing the old site, all testing and development capacities in Geretsried could be combined at one location.



Biogas Backfeed with the Gösser Brewery



The Gösser brewery uses biogas compressed by BAUER.

The best-known Austrian beer brand on the international market is Gösser, which belongs to Brau Union. The brewery in Leoben, Styria, can look back on a tradition: the brewing activity that was started by the Gössnunnery and later discontinued was successfully reactivated in 1860 by the beer brewer Max Kober. Today, the color green in the logo also stands for the effort to pursue a climate-friendly corporate policy.

Gösser is making great efforts to reduce fossil fuels in production, procurement, and delivery. The use of self-produced biogas is a core area of the company's sustainability strategy. The supply of biogas is a joint project between Brau Union, the energy supplier Energienetze Steiermark, and the compressor specialist BAUER KOMPRESSOREN. The biogas used for the production process is obtained by Brau Union in an in-house biogas plant from the spent grains, the residues of the brewing process. "Energienetze Steiermark" then converts the raw gas into ready-to-use biomethane. The freshly obtained raw gas must first be processed. It goes through a so-called amine wash, in which the raw gas is freed from undesirable accompanying substances such as carbon dioxide, hydrogen sulphide and other acidic gases. This achieves high purities

even at relatively low pressures. The pressure of the gas when fed into the feed system is only a few millibars. Before compression, the quality of the processed biomethane is measured with a gas analyser for its methane content and its accompanying substances in order to comply with the standards set out in the norms. Since the feed takes place in different networks depending on demand, two technically different compressor systems were planned. Here, the technologically leading compressor technology of the natural gas and biogas specialist BAUER KOMPRESSOREN is used. The first of the two systems contains a water-cooled screw compressor of the type CNK9-55, which is characterized by a high delivery capacity at lower pressure. This feeds the fully processed BAUER KOMPRESSOREN Biogas feed-in at the Gösser brewery

into a 4-bar network, which is used for the brewing process in the brewery. After compression, the biomethane is cleaned again and cooled down to approx. 20°C. If the consumption in the brewing process is low, the system switches to the second compressor, a water-cooled CS23.8-37 medium-pressure compressor. This BAUER high-pressure booster can handle high inlet pressure, which significantly reduces energy requirements. The enclosure of the compressors in heated and ventilated containers allows operation even under highly fluctuating external conditions. With the commis-



Water-cooled CNK9-55 screw compressor

sioning of the fully installed systems, Gösser Bräu has added another

important component to its sustainability strategy.

BAUER Focus Tour in Central Asia

Mining Congress Kazakhstan



The BAUER team talking to customers

Without rare earths, the rapid expansion of climate-protecting technologies for solar power generation and electromobility would be unthinkable. The secure supply of these basic materials is of strategic importance in economic policy. For this reason, the Central Asian country of Kazakhstan, as a politically stable state with significant deposits, is increasingly coming into international focus. The "Mining Congress Kazakhstan", which took place in the capital Astana in mid-May, has now established itself as the most important local forum and meeting place for the industry with its interesting mix of lectures and exhibitors. BAUER demonstrates excellent ex-

pertise in this area with its high and medium pressure systems. The rush and interest at the BAUER stand was correspondingly high. Company managers and project developers learned from the BAUER team about the numerous different possible applications of high pressure systems in raw material extraction. The conclusion after the event: In addition to deepening existing business relationships, interesting new contacts were established with government project teams. In addition, numerous newly planned production facilities for refining a wide range of raw metals offer a promising outlook for future projects.

BAUER "On Tour" in Central Asia

The neighboring countries of Uzbekistan and Turkmenistan are also becoming increasingly important as gas, oil and raw material suppliers. As a premium manufacturer in the field of high-pressure systems, BAUER enjoys an excellent reputation in the region, as a team from BAUER discovered on a trip following the congress visit. At various exploration sites and training centers, BAUER compressors have been reliably delivering the best breathing air quality for decades! The first destination of the tour was Uzbekistan. At the OSG (Oil and Gas Fair Uzbekistan) in the capital Tashkent, manufacturers presented a wide variety of industry-specific product solutions.



The Technica Training Center in Turkmenistan will rely on breathing air from BAUER KOMPRESSOREN going into the future.

BAUER can offer a wide range of solutions, particularly in the area of breathing air: H₂S protection systems protect employees in the event of dangerous hydrogen sulphide blowouts by providing a safe supply of breathing air in the shelters, and the market-leading online gas measurement system B-DETECTION PLUS

test. The simple operation, the precise measurement results and, above all, the option of saving the results and thus documenting them, completely convinced those responsible on site. The trip concluded with a visit to the TESC (Turkmen Energy Scientific Conference) 2024 in the capital Ashgabat in neighboring Turkmenistan. Here, too, valuable contacts were made with government authorities such as the gas supplier Turkmengaz and a new business partner as a basis for the implementation of future projects.



The BAUER team with high-ranking representatives of the Uzbek training centre for firefighting operations and fire services.



Presentation of B-DETECTION PLUS at Uzbekneftegaz

enables safe and seamless monitoring and documentation of breathing air quality. The BAUER team, together with the local representative, had several opportunities to test the breathing air quality of the compressors installed at various locations, including the training centre of the state-owned company "Uzbekneftegaz", using the mobile version in a life

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