



B-NEWS

THE NEWSLETTER OF BAUER KOMPRESSOREN

BAUER
KOMPRESSOREN

Quality. Our DNA

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EDITORIAL



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

When the COVID-19 pandemic forced restrictions to be imposed from early 2020, virtually all trade show and exhibition activities came to a standstill. Two of BAUER's most important events, the water sports fair "boot" in Düsseldorf and the ComVac industry trade show in Hanover, were cancelled completely in 2021 and 2022. And INTERSCHUTZ, the global leading trade show for the firefighting sector – which is held only every five years – had to be postponed twice. As late as this spring, it was still unclear whether the event would be able to take place in 2022. But finally the green light was given and INTERSCHUTZ once again opened its doors in Hanover from 20 to 25 June. This sent out a powerful signal to the industry, and indeed to the economy as a whole, marking a slow but sure return to normality. The extremely positive outcome from our presence at the trade fair confirmed that our decision to take part had been the right one.

Heinz Bauer, Dr. Monika Bayat, Philipp Bayat

BAUER KOMPRESSOREN

INTERSCHUTZ



The banner theme at this year's INTERSCHUTZ was the connected world. An area in which BAUER was able to showcase its technological excellence, with B-CLOUD and innovative RFID solutions for safe, secure filling management.

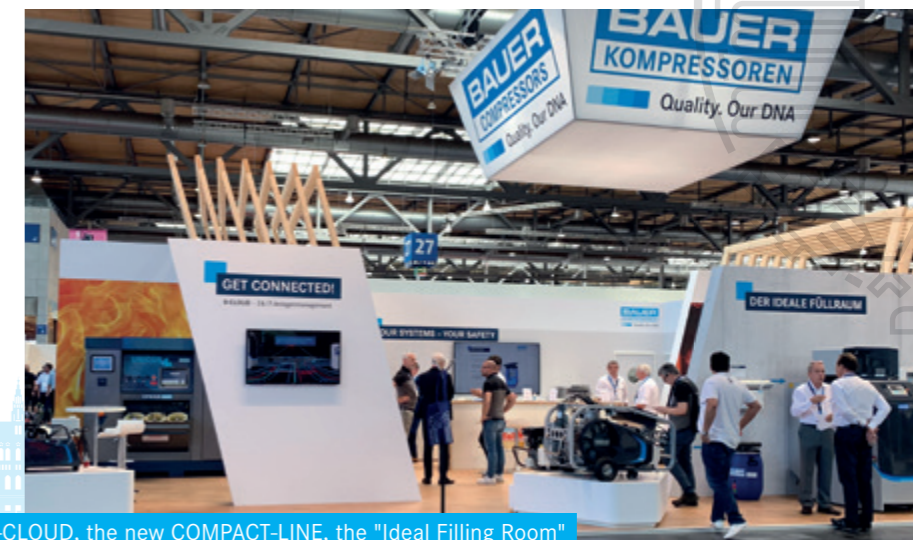
tions to keep all functions and status data of their station directly in view around the clock, all over the world. At the same time, B-CLOUD allows them to control all the main functions of their system remotely. This also applies to seamless monitoring of

breathing air quality – the most important aspect of all! While breathing air quality is monitored, the data collected can be saved securely in the cloud on a highly secure server located within Europe, in compliance with data protection regulations and 100



All power to women on one of the toughest obstacle courses in the world!

After a two-year delay due to the Covid-19 pandemic, 2022 finally saw the leading trade show in the firefighting industry make a welcome return. The banner topic was the mega-trend of the connected world. Digital technologies unlock a whole range of new opportunities to create a safe, secure environment for firefighting and rescue teams in action. The latest compression solutions on offer from BAUER KOMPRESSOREN set groundbreaking new standards in safety. First and foremost is the new B-CLOUD, a cloud-based solution that enables overseers of breathing air filling sta-



B-CLOUD, the new COMPACT-LINE, the "Ideal Filling Room" and the UNICUS attracted the most attention at BAUER's stand.

percent safe from misuse. The data can then be used for verification purposes at a later stage. Communication with the cloud is effected via a highly encrypted connection. The main highlights presented at the trade fair stand were the latest additions to the product portfolio. The new-generation portable COMPACT-LINE was a standout, not only because of its iconic cutting-edge design, but also with a range of new technical features that deliver functional improvements such as more effective cooling

and longer filter cartridge life. The advanced B-DETECTION PLUS online gas measurement system offers a variety of additional measurement functions, while the all-new B-FILL filling panel is based on a smart modular system. BAUER GROUP's subsidiaries from France and the USA were also present at the stand and showcased highly specialized solutions tailored to their domestic markets. The RFID system from BAUER COMPRESSEURS enables breathing air cylinder status to

be inspected and documented together with all relevant filling data. BAUER COMPRESSORS presented UNICUS 4i, a state-of-the-art breathing air production system that combines compression, storage and filling operations in a compact all-in-one housing. The latest generation of the UNICUS 4i is equipped with GasTech monitoring and the RFID PRO cylinder management system. But INTERSCHUTZ is not only the ideal platform for launching new products; it also has a packed programme of industry events – including the legendary "FireFit" competition, in which the world's top firefighters don full breathing gear (!) to complete a gruelling course against the clock that pushes them to the limits of physical endurance. Of course high-purity breathing air is a must, and it was supplied by BAUER from its own high-performance VERTICUS 450 filling station. An AERO-GUARD system ensured the amount of CO₂ in the ambient air never exceeded the strict statutory threshold, while a B-DETECTION PLUS system provided additional continuous monitoring of breathing air quality.



BAUER's high-purity breathing air is essential to complete these physical challenges in full face mask.

BAUER KOMPRESSOREN

2022 Product Campaign

KEEPING A COOL HEAD

Drawing on advanced measurement technology, the optimized blade shape and geometry of the fan and fanbelt protectors maximize the cooling air flow to the cylinders. Combined with a larger-sized intercooler, the new design has further significantly boosted cooling efficiency. Benefits include longer filter cartridge life and a greater range of potential uses in high-temperature locations.



SETTING NEW BENCHMARKS IN SYSTEM CONTROL

The B-CONTROL SUPERIOR is designed to control base and peak loads to optimize compressor operation for maximum efficiency. The unit controls up to 5 compressors with additional SECCANT regeneration dryer. The systems' operating hours are adjusted to ensure consistency and economy in operation. In addition to the 3.5" colour display, the major new feature is compatibility with the B-CLOUD and all its associated benefits; these include 24/7 system access and control plus storage of data both on an internal SD card and in the cloud - naturally transmitted via a highly encrypted data connection and saved on a high-security server in a European location.

A NEW LEVEL OF BREATHING AIR SAFETY

In addition to monitoring the breathing air produced by the compressor, the latest generation of compressors can monitor intake air and even measure cylinders directly! This new compressors is naturally also B-CLOUD ready. The new 450-bar model can be used with high-pressure storage systems. The rapid-response moisture sensor further minimizes measurement delay. As a new feature, the sensor runs regular self-tests to provide maximum protection against CO contamination. A data logger records all measurement data to provide solid legal certainty. To ensure consistent measurement quality, sensor calibration is now semi-automatic.



SMART FILLING IS MODULAR

The new B-FILL filling panels can be tailored by combining modules to suit users' individual needs. Each element has two filling connections. With connections for direct filling and for filling hoses at pressures of 200, 300 and even 420 bar on offer, the elements can be combined and extended. The panels can even integrate a module with B-CONTROL MICRO or simply a hardwired control unit. You can't get more flexible than that!



BAUER KOMPRESSOREN made good use of the pandemic period, developing and advancing a wide range of new products. As a result, this year BAUER has been able to launch a broadly based product campaign spanning the entire portfolio. Probab-

ly the most crucial new development was in our COMPACT LINE compressor systems. For more than two decades, the legendary quality of BAUER's classic JUNIOR II, OCEANUS and PE 100 compressors has set the benchmark for mobile breathing air com-

pressors in diving applications. The recently launched new generation has raised the bar still further. Our best-sellers in the mobile breathing air compressor sector have been completely revamped and now feature a striking iconic design as well as en-

hanced cooling efficiency. BAUER's B-FILL filling panels have also had a full-scale makeover. This all-new design now has a smart modular concept that maximizes flexibility and enables systems to be expanded quickly and easily. Safe breathing air

is naturally a core priority at BAUER KOMPRESSOREN, with particular attention paid to measurement quality. The next generation of our market-leading online breathing air measurement system, B-DETECTION PLUS, has undergone a major update and now

offers brand-new features that improve safety and usability still further and the new-generation B-CONTROL SUPERIOR has set new standards in control technology!

The Ideal Filling Room



- 1 B-VIRUS FREE
- 2 AERO-GUARD
- 3 High-pressure compressor
- 4 B-KOOL
- 5 B-DETECTION PLUS
- 6 B-DETECTION AIRBOX
- 7 Filling panel
- 8 External display
- 9 Automatic selector unit
- 10 Storage system
- 11 High pressure regulator
- 12 B-CLOUD

BAUER KOMPRESSOREN's complete high-purity breathing air production system enables all users to configure their own bespoke turnkey solution, tailored to their individual needs and requirements. The top priority is naturally safety - in terms of both breathing air quality and operating safety.

BAUER KOMPRESSOREN Big Party



At the end of May, BAUER threw a BIG PARTY in the Löwenbräu-keller beer hall in Munich! Almost 300 employees of the BAUER GROUP assembled, all in party mood, to celebrate 3 (!) company anniversaries as well as Heinz BAUER's "80+2nd" birthday.

If it hadn't been for the COVID-19 pandemic, BAUER KOMPRESSOREN would have been able to celebrate its 75th anniversary in 2021 and Heinz Bauer could have marked his 80th birthday in 2020, which was also the year of ROTORCOMP's 40th anniversary. But there's always another time, as the saying goes, and 2022 offered the perfect opportunity to finally catch up on all the cancelled events - with the addition of UNICOMP, which can look back on two successful decades this year. Company banners at the entrance to the guided the guests to the great hall on the first floor of this traditional Munich restaurant, originally also home to the famous Löwenbräu brewery. "Birthday boy" Heinz Bauer, his daughter and Managing Partner of BAUER, Dr. Monika Bayat, and her husband and Managing Director Philipp Bayat were at the door to welcome each individual employee onto the red carpet with a personal handshake. This powerful

gesture of appreciation was captured by a photographer; each guest received the photo as a memento at the end of the evening. On the perfect balmy summer evening, the large terrace offered an ideal opportunity for both the active employees and the numerous retirees to catch up and chat once again over aperitifs and delicious welcome canapés after the enforced break of the pandemic.

In heartfelt speeches, BAUER's "First Family" warmly thanked the employees for all their efforts in the previous two difficult years, and hailed the extremely positive prospects for BAUER in the future, based on the company's financial results and the stream of new product developments. At dinner a lavish selection of Bavarian specialities and drinks were served, accompanied by a musical programme featuring a traditional brass band, then a DJ to keep the party mood in full swing. A hugely popular photo booth invited guests to dress up in fun accessories and snap themselves. But the real star of the event was Heinz

Bauer, who was fittingly celebrated by the guests and employees on this special occasion. They had put heart, soul and plenty of effort into assembling a varied series of entertaining skits, sketches, songs and videos. Heinz Bauer himself was clearly thoroughly amused by the many self-penned songs, medleys and films offering imaginative and humorous looks at this exceptional and many-faceted personality in the finest BAUER tradition. When the event came to a close at around 11 pm, it had been a great evening full of memories to treasure, as the departing guests unanimously agreed.

HEINZ BAUER:
(AROUND)

80

75 1946-2021 BAUER KOMPRESSOREN

40 1980-2020 ROTORCOMP VERDICHTER

20 2002-2022 UNICOMP





BAUER KOMPRESSOREN

A Veteran Comes Home

Long service life and uncompromising quality have created the rightly legendary reputation of BAUER's compressors – and Hans-Ulrich Kiessling's UNIVERSAL 1 is living proof. After 41 years of trusty service, it has come home to BAUER and will take up a place of honour in the company's future museum.

Anyone that can look back over a 41-year career has certainly earned the right to put their feet up and retire. Even when that "anyone" is a compressor – like this UNIVERSAL 1, which has now returned to BAUER to take up a place of honour in the future BAUER Museum. Manufactured in 1981, the compressor was purchased by Hans-Ulrich Kiessling from the Bavarian town of Bad Aibling. Throughout the following four decades, it delivered reliable service in his workshop, home and garden without a break – including

cleaning garden equipment, inflating tyres and pressure-washing. Thanks to the regular care and maintenance the compressor received throughout its life, it is still running flawlessly today and delivering the same superb performance as it did when new. That's Made in Germany quality for you! In addition, the compressor is a classic highlight of BAUER's product portfolio. The company produced a single-cylinder boiler system to launch its operations in the compressor sector. While the original 1946 model had delivered

“ I'm very proud to see this proof of the quality and long life of our products!
 HEINZ BAUER

100l/min at 7 bar operating pressure, its 1981 successor could reach 125 l/min at 10 bar. This trusty companion had clearly meant a lot to its owner, and he was obviously heartbroken at having to pass it on. At the same time, Hans-Ulrich Kiessling was happy in the knowledge that it would be going to a very good home. Heinz Bauer received the compressor in person. Following a short trial run, he expressed his admiration for the compressor's excellent condition after so many years of active use. ■■■



BAUER GROUP
EXPO Dubai

The trade fair train, "Expo Explorer", powered by BAUER's highly compressed air

At Expo Dubai, over 24 million visitors from 178 countries seized the opportunity to take a fascinating look into the future of humanity. The BAUER GROUP occupied various pavilions presenting an ultra-sustainable and innovative mobility solution.

At this trade show and parade of superlatives, 200 participants from 192 different countries introduced the latest developments in the fields of digitalization, sustainability and mobility. Themed weeks showcased a wide variety of different areas including climate, biodiversity, urban space development, space exploration and artificial intelligence (AI). In a particularly sustainable mobility project, BAUER GROUP subsidiary BAUER COMPRESSEURS had organized excursion trains powered by compressed air instead of fossil fuels or batteries, which chauffeured visitors around the exhibition centre grounds. It was the excellent reputation of its compressor systems that clinched the contract for this prestigious project for

the BAUER GROUP. To produce the highly compressed air required for the powertrain, BAUER COMPRESSEURS joined forces with the local subsidiary, BAUER KOMPRESSOREN MIDDLE EAST to develop a bespoke turnkey solution comprising three high-performance, high-pressure I28.0-75kW compressors combined with a large-scale 350-bar storage bank. This system, with 106 (!) 50-litre steel storage cylinders, ensured a constant supply of the air volume necessary for operating the trains, including reserve and buffer storage.. Coupled with a rapid charging station, the system enabled a full train to be "fuelled" with 1600 litres of compressed air at 250 bar in under ten minutes. ■■■

BAUER KOMPRESSOREN

Sustainability



BAUER's commitment for the environment

BAUER's sustainability drive – how we help protect the climate and the environment

Protecting our climate and the natural resources of our world are at the centre of our corporate vision and form the bedrock of our business operations. As the mainstay, we have established an efficient environmental management system which has been awarded certification under the ISO 14001 environmental management

standard. All actions and measures in this context are taken at Group level and are implemented by each and every member of our passionate and committed workforce. To name just two examples, we have increased the energy efficiency of our buildings and production methods and slashed carbon emissions by purposefully moving our vehicle fleet over to climate-neutral mobility. The achievements in our production operations are mainly down to avoiding toxic substances in our manufacturing processes and product packaging, and by consistently using recycled materials wherever possible. We are constantly updating and advancing our existing waste sorting systems throughout the Group. In addition, we have planted a wildflower meadow and set up woodpiles as insect habitats in the forested area adjacent to our facility, as well as installing

beehives to further support biodiversity. Our focus is on establishing a continuous improvement process that goes above and beyond our achievements to date.

Green Cartridges

The objective of this sub-project at BAUER is to optimize the packaging material of all our filter cartridges in order to maximize savings and to replace plastics with eco- and climate-friendly materials. In this project, we subjected all individual cartridge elements to an in-depth review, from the packaging to the filter component itself.

50 per cent reduction in plastic
We began with the TRIPLEX cartridge, which is used in all COMPACT-LINE



New habitat for bees at BAUER



The green cartridge - Saves resources and protects the environment

and many PROFI-LINE models. As the highest-selling cartridge, it also offers the greatest potential for generating savings. After a complete redesign of the cartridge packaging and optimization of the cartridges themselves, we succeeded in halving the amount of plastic used in their production. In addition, the reduced size and weight of the new cartridges significantly lowered the amount of material they contained to save further on resources. Once the redesign of the D70 series used in the P 41 and P 61 purification systems is complete, all BAUER filter cartridges will comply with our company's rigorous sustainability criteria.

Green Power

As part of our sustainability drive at BAUER, we have taken a further major step towards becoming a climate-neutral company: at the start of 2022,

all the production facilities at our Geretsried location switched completely to certified green power generated by renewable energy plants. This action has enabled BAUER to help the climate by saving 881,100 kg of CO₂ emissions (calculated using currently valid consumption information). In the future, the eco-friendly electric vehicles in our company fleet will be powered with green electricity, and thus fully climate-neutral.

Eco-Friendly Packaging

After extensive experiments to develop eco-friendly packaging for our spare parts, we are now taking the next step and introducing plastic-free or minimum-plastic packaging! The kraft paper bags that will be used for packaging in the future are made from natural and renewable raw materials,

can be composted and are fully biodegradable. No chemicals, plasticizers or harmful substances are used in their manufacture; they are unbleached, but are slightly water- and oil-repellent



Environmentally friendly packaging for after sales business

to provide optimum protection for our parts during shipping. For a complete list of all our current and future projects, visit our website:



The plant in Geretsried – constructed according to the latest lean concepts for optimal material flow and modern intralogistics

BAUER KOMPRESSOREN

Training Fair

The Training Fair opened in Bad Tölz, Bavaria, on 27 April 2022 after a two-year break enforced by the COVID-19 pandemic. After this long wait, the fair was thronged by crowds of eager visitors. The BAUER KOMPRESSOREN stand was designed to attract school students to join BAUER as trainees in the future-facing career of mechatronics engineering.



Our team at the trade show stand: Stefanie Reichel, Peter Ott, Christian Harnisch, Jasper Graf (l. to r.).

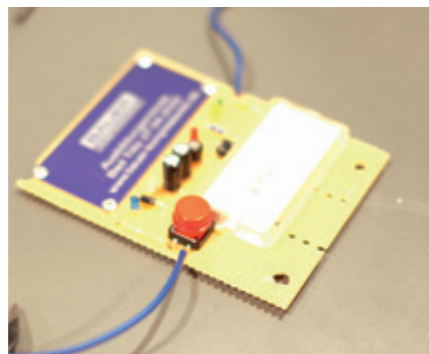
One of the biggest employers in the region, the BAUER GROUP has offered apprenticeships in mechatronics engineering for the past four years. At the fair, held in the ice skating stadium in Bad Tölz, around 800 students from all forms of secondary school were able to explore skilled occupations and the realities of working life in depth at the exhibiting companies' stands. BAUER KOMPRESSOREN was one of the most popular companies at the event. Assisted by our appren-

tices, the students were invited to assemble a preprepared circuit. After affixing a BAUER plate themselves, they proudly took the flashing electronic item home with them. The fair provided them with their first practical encounter with the skilled field. "We are finally able to move into action again, showcase the strengths of BAUER KOMPRESSOREN as a company and personally introduce the students to this great career opportunity", rejoiced Peter Ott, who staffed

the stand together with trainer Jasper Graf and apprentices Stefanie Reichel and Christian Harnisch. As well as the hands-on experience, the students were invited to take part in a quiz, with great prizes beckoning the winners. They also had the chance to learn about internship and work experience opportunities and day-to-day working routine, and found out more about apprenticeships in the skilled occupation of technical product design offered by BAUER in Munich. "Our presence at the Training Fair has enabled BAUER to confirm its status among the region's top employers. School work experience is an excellent way for us to attract apprenticeship applicants. Students can familiarize themselves with the occupation and with our company, and we also gain valuable findings that can lead to the offer of an apprenticeship in the best case scenario", explains Richard Schmidt.



At BAUER, practical hands-on working is a top priority.



BAUER KOMPRESSOREN

Research Dive In The South Seas



The Submaris team with their JUNIOR II breathing air compressor.

Whenever there's a wreck to dive to on a remote island on the other side of the world, BAUER's mobile diving sports compressors are the equipment of choice for providing the breathing air.

BAUER supplies breathing air for a research diving expedition in the South Seas. In November 2021 a team of research divers from SUBMARIS, a company based in Kiel, North Germany, set out on a journey that would take them halfway around the world. Their destination was Mopelia, an uninhabited atoll in French Polynesia; their goal was to document the remains of the German ship SMS Seeadler ("Sea Eagle"). The wreckage of the craft, which sank in dramatic circumstances, had fascinated scientists and expedition divers alike for a century. The three-masted steel-hulled sailing ship was one of the last merchant raiders to be used by the Imperial German Navy in the First World War. Under the command

of its captain, Felix Graf von Luckner, it successfully captured 14 ships in battle until a raid on 2 August 1917 in the South Pacific ended in an unfortunate disaster. An anchor gave way in severe weather conditions and the ship smashed against a reef, where she sank. After the war Luckner rose to world fame through his novel, "Der Seeteufel" ("The Sea Devil"), an account of the raid. The diving expeditions succeeded in recording scientific data about the wreck, a valuable relic of cultural history, before its remnants finally succumbed to the destructive power of the waves. The greatest preliminary challenge was to transport the necessary equipment to this extremely remote area of the world – and, particularly, to

ensure the divers would be reliably supplied with pure breathing air. Without a filling station on site, the expedition needed to take along a breathing air compressor that was as compact and reliable as possible. There was no question of taking the company's own BAUER OCEANUS compressor over from Germany as air freight, due to weight limits and cost constraints. BAUER therefore stepped up to support the expedition via its BAUER COMPRESSORS ASIA branch, which arranged for the contribution of a mobile JUNIOR II. The rugged and indestructible item of kit was supplied by BAUER's service partner, NAUTISPORT in Papeete, for the duration of the expedition.

BAUER KOMPRESSOREN

BAUER At The Alpenland Fun Run



Over recent years, the Alpenland fun run in Geretsried has grown into a major highlight in the regional calendar, with a great accompanying programme. 22 employees from across the BAUER GROUP's German subsidiaries took part in the run under their employer's banner.



Rock music boomed out of the speakers as the event presenters whipped up the crowds of spectators and entrants into a festive mood. As sponsors of the event, UNICOMP and BAUER KOMPRESSOREN had their own tent. The company's team was made up of runners from all areas of the companies, from production to top management. All were highly moti-

vated, shrugging off the darkening clouds filling the sky with the promise of bad weather. The record temperatures of this torrid summer's day brought sweat to everyone's brows before they had even taken a step. The fruit and drinks provided for the athletes were gulped down eagerly before the start. On the dot of 7 pm, the starter's pistol rang out and a colourful sea of runners forged their way past groups of spectators, who had defied heat and imminent downpours to cheer on their favourites. Luckily, the rain held off and enabled all runners to cross the finishing line without a drenching. "A great event!" was the unanimous verdict of everyone returning to the BAUER tent after the awards ceremony, where the day came to a close in a party mood be-

fore the last revellers went home around 10 pm. ■■■

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