

JUST FACTS

The FILCOM magazine for customers and partners



WHERE PACKAGING BUCKETS LIVED

Packaging specialist relies on compressed air from KAESER

AT THE PULSE OF TIME

New powerful duplex filter for modern processing machines

FINALLY ONLINE

The whole world of compressed air

EDITORIAL

Dear Readers,

The difficulties of the past year have not yet been fully overcome and already companies have to prepare for the next challenges. In the case of some raw materials, this is already leading to production machines being at a standstill or unable to produce at full capacity. Also in the trade there are longer and longer delivery times for important building materials and raw materials. We at FILCOM GmbH are already reacting to these effects by increasing our stock levels in order to remain able to supply our customers in the future.

Since the acquisition of FILCOM GmbH in 2017, our company has taken a great development. By implementing our new corporate design, we have further deepened our brand positioning in the field of compressed air and filtration. With a sound analysis, planning and a long experience we offer you and your company solutions for a safer and cleaner compressed air. From experience we know that an important component of a compressed air station is the subsequent support and service. Essential here is good communication with our customers and the contact persons on site.

Many of our loyal customers, partners and readers know FILCOM GmbH primarily as a reliable partner for maintenance and repair work of well-known compressor brands and complex compressed air systems. But also well-known manufacturers such as BorgWarner, Filtration Group Industrial or Tival rely on our first-class expertise as an efficient trading partner.

In the future, it will continue to be our claim to accompany each of our customers in a spirit of partnership, from the initial inquiry, through the installation of a system, to the renewed replacement of the system. The thoroughness with which we develop solutions down to the last detail and adapt them to our customers' applications is certainly one of the reasons for our success. Our aim is to continue to work successfully with our customers and partners in the future.

Now I hope you enjoy reading this issue and that we can continue to inspire you with „JUST FACTS“.

Yours



Wilfried Leitenberger
Managing Director FILCOM GmbH



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Managing Director FILCOM GmbH

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Finally online!

The whole world of compressed air

Under the familiar address www.filcom.de/druckluft, FILCOM Druckluft is now finally presenting itself in a completely new look. The new website focuses on the products and markets of our long-standing partner KAESER Kompressoren SE.

Whether plant optimization or tailor-made new planning: at FILCOM, customers benefit from the consulting and analysis expertise of a well-positioned team. Experienced in analysis methods according to DIN EN ISO 11011 and with a trained sense for the requirements of a wide range of industries, the FILCOM team offers its customers future-proof solutions according to the required demand, which save money and are also good for the environment. The FILCOM technology page is currently under construction but will follow soon. We are looking forward to your visit in the new world of compressed air..



FILCOM is now also part of the network

The medium-sized businesses. BVMW

Since 01.06.21 we are a member of the BVMW. Federal Association of Medium-Sized Businesses & Entrepreneurs Germany e.V.

Community makes strong. This is especially true for medium-sized businesses. And so FILCOM has been part of this network since June, in order to be able to master the challenges on the market even better in the future.

The network of the BVMW supports especially companies from the middle class and gives important impulses, new contacts and advises individually on questions. Valuable information and recommendations provide members with concrete benefits and strengthen both on a regional, national and international level. We are proud to be part of this community!

DENTAL TECHNOLOGY IS ALSO CRAFTSMANSHIP

Compressed air supply for dental technology

In a dental laboratory, nothing runs without compressed air. From the simple air hand nozzle to modern CAD/CAM systems - a stable and safe compressed air supply is an indispensable component of success. **Innovateeth manufactory** - a name that is a neologism of „innovative“, „teeth“ (eng. teeth) and manufactory. Since 2020, Patrick Haas and Innovateeth Manufaktur have been focusing on two areas: On the one hand, state-of-the-art dental technology, relying on the latest materials, manufacturing techniques and machines. On the other hand, on a manufactory, where highly specialized products are produced by hand..



The Innovateeth Manufactory

With the founding of the company in 2020, Patrick Haas decided to move further towards the digital future, simplifying the classic workflow from the 1970s and making it more effective. To keep up with the development towards digitalization, the dental laboratory is equipped with the latest machines in dental technology. With modern CAD/CAM milling and grinding machines, Patrick Haas and his team ensure reproducibility, accuracy and efficiency..

Reliable compressed air - an important prerequisite

When an innovative and modern company looks at the energy efficiency and sustainability of its processes and plants, it inevitably has to think about compressed air generation. An initial inventory showed that there was enormous potential for savings here. The piston compressors that had been in use since then no longer met the requirements of a dental technology company, as the blowing air and the grinders used were the main consumers of the compressed air.



today it is the 3D printers and CAD/CAM milling machines. With the goal of optimizing this situation with the use of a new compressed air station, the points and specifications that needed to be implemented were discussed in detail with Mr. Haas in advance. The cornerstones of the objective were, of course, a clean and reliable compressed air supply with a small footprint. A plant that is absolutely up to the requirements and offers space for expansion.

DENTAL TECHNOLOGY IS ALSO CRAFTMANSHIP

Compressed air efficient and space-saving

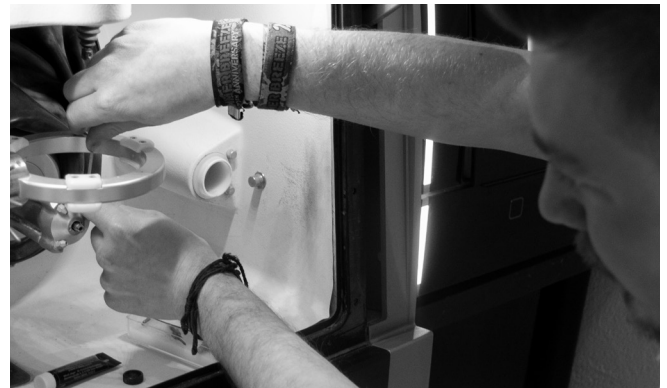
A tour of the Innovateeth Manufaktur facility provides clarity about the scope of compressed air applications in this dental laboratory. Upon entering the lab, one hears busy milling and grinding sounds that immediately tell the visitor: This company works intensively with compressed air to produce a wide variety of dental products such as

- bite splints
 - snoring splints
 - individual splints for optimal protection of the jaw for sports activities
 - all-ceramic products
 - 3D printing models
 - model cst prostheses
 - telescopic prostheses made of zirconium etc.
- to manufacture.

Even though the first step was not yet fail-safe, Patrick Haas has a complete compressed air station from KAESER that ensures that a wide range of applications can be used reliably and permanently. Based on a measurement and the machine manufacturer's specifications for the new 3D printers, FILCOM GmbH was able to offer the right solution. A compact compressed air system of the type „AIRCENTER“ from KAESER, which works reliably and efficiently, even in continuous operation.



KAESER AIRCENTER
Picture source: KAESER Kompressoren SE



AIRCENTER: Reliable and efficient

The outstanding features of all „Aircenter systems“ are their small footprint of around one square meter and their high efficiency. At the heart of the system is a particularly powerful and energy-saving SM 6-8 screw compressor. Additional energy savings are achieved by using highly efficient Premium Efficiency motors. Another important efficiency component is the standard equipment with the communication-capable Sigma Control 2 control system. The well thought-out, user-friendly system design is also impressive. The left housing cover can be removed in just a few steps to reveal the clearly arranged components. All maintenance points are easy to reach. When closed, the housing with its sound-insulating lining ensures a pleasant, extremely quiet operating noise. A refrigeration dryer thermally shielded from the compressor ensures reliably dry compressed air. In addition, this allows the air quality to be precisely matched to the application in question. A 350-liter compressed air reservoir serves as the storage tank. Compressor, dryer and compressed air tank are enclosed in a housing and visually form a single unit. In accordance with the „plug & work“ principle, the AIRCENTER is immediately ready for use after connection to the power and compressed air supply.

Thanks to the energy efficiency of the system, the purchase and installation is even rewarded by the Federal Office of Economics and Export Control (BAFA) with a maximum of 40% funding. Thus, the tight budget on the part of Innovateeth could be adhered to and even undercut. For FILCOM GmbH, support in the application process is a service that saves time and is very popular with customers.

The entire Innovateeth team is positively surprised at how quiet the new compressor unit is.

WHERE PACKAGING BUCKETS ARE LIVED

Packaging specialists relies on compressed air from KAESER

Within the SAIER Group, SAIER Verpackungstechnik GmbH & Co. KG is the specialist for pails, trays and tubs in all shapes and volumes from 1 to 65 liters. Solid plastic packaging materials are injection molded from polypropylene and can be finished using the IML (in-mold labeling) decoration process. A large number of standardized or customized packages are produced and delivered just in time every day..

Sustainability & environmental protection

SAIER Verpackungstechnik has always recycled almost 100% of its production-related plastic waste and reused it in selected production processes. Therefore, the company generates almost no plastic waste - on the contrary, for some years now, suitable recycled and post-consumer materials have been purchased for non-food products. If a modern production company has such an eye on the energy efficiency and sustainability of its processes and plants, it must inevitably also think about compressed air generation.



Pneumatic emptying of silo vehicles

When it comes to pneumatic emptying of silo vehicles, bulk handling companies are often faced with a choice: on-board, i.e. mobile compressors, or stationary ones. Pneumatic emptying of silo vehicles by on-board compressor systems has several disadvantages. Not only is it uneconomical, as it increases the downtime of the vehicles and thus reduces their profitability. The process also pollutes the environment, as the truck engine has to drive the silo compressor at an increased speed throughout the unloading period. Added to this is the high noise level. Faster, more economical, more environmentally friendly and considerably quieter emptying is achieved by stationary compressor systems installed at the unloading site. This method was also used at SAIER Verpackungstechnik in Alpirsbach. Here, this task is performed by a DBS 220 M SFC screw blower. The KAESER screw blower empties the incoming tanker trucks and then stores the plastic granulate in silos via piping systems.

Environmental protection included

„The bottom line is that a stationary screw blower for generating the unloading air initially means additional expenses for us as operators due to the investment costs as well as the ongoing operating and maintenance costs, but this can be partially represented in business terms via reduced energy expenditure. The screw blower also makes an active contribution to environmental protection and noise abatement that should not be underestimated,“ explains Steffen Roth, Head of Strategic Purchasing at SAIER Verpackungstechnik. The new KAESER screw blower, which replaces a previously used blower station, has resulted in energy savings of 30%. This results from a significant reduction in system pressure with increased delivery volumes. The efficiency of the unloading process for the silo vehicles was also significantly increased by optimizing plant utilization. A time saving of 20% has already been achieved here..

Energy-saving heroes of today

Highly efficient KAESER screw blowers up to 250 kW are suitable for use in a wide volume range. Here, savings of up to 35 % are possible thanks to outstanding efficiency. But also in terms of commissioning, operation and maintenance, the robust endurance blowers exploit all savings potential. The user-friendly systems are supplied as ready-to-connect „plug & work“ products and require absolutely little maintenance.



AT THE PULSE OF TIME WITH AUTOMATED HIGH-END MACHINES

New powerful duplex filter for modern processing machines

Whether in the automotive industry, mechanical engineering, medical technology or other manufacturing and production areas in metalworking: machine tools are necessary wherever workpieces are manufactured.

Machine tools run like lubrication

In high-quality hydraulic and lubrication systems, duplex filters take on the role of working filters with defined oil purities and ensure reliable operation without downtime. Very often, double-switch filters from Filtration Group Industrial are used as safety filters (police filters) between the high-pressure pump and the consumers in cooling lubricant treatment. In these applications, the duplex filter is installed downstream of the working filter. It has a safeguarding function and provides maximum safety for internally cooled tools, rotary pressure guides and fine machining bores.

Applications

- Thanks to the newly developed Pi 214 filter series, it was possible to achieve a significant price reduction compared to the Pi 370 duplex filter previously used
- No design changes to the machine tools required, as installation dimensions of the previous filter type could be transferred to the new series
- Uniform filter design to avoid irritation on the market
- Compact, lightweight design for user-friendly application
- Guaranteed separation rates of DRG filter elements according to multipass test



FG duplex filter Pi 214
Picture source: Filtration Group Industrial

How does Filtration Group Industrial contribute to this?

In metalworking today, over 90 percent of coolants are cleaned. Filtration Group Industrial duplex filters ensure reliable operation of machine tools, with a focus on lathes and milling machines used by this customer. The field-proven filters provide the optimum basis for efficient, safe and economical production of high-quality goods, without process interruption during filtration.

The Pi 214 filter type is a new series of high-performance filters for use on modern processing machines. The series was specially designed for use with cooling lubricant.



PERFECT HYDRAULIC SOLUTIONS FOR THE SAWMILL

Wood is our raw material, the customer is our king and sawing is our passion

No matter how the Fuchs sawmill in Böhmenkirchen turns and twists the logs: With filters and elements from Filtration Group Industrial for the filtration of hydraulic, lubricating and operating fluids, the sawmill increases productivity and saves a lot of money.

The smell of freshly sawn wood hangs over the sawmill operation, which was founded in 1892 and is now run by the fifth generation of the Grieser family. The sawmill mainly processes softwoods and hardwoods with a focus on beech, oak and ash. Highly qualified employees, most of whom have been with the company for many years, use the latest technology to produce products ranging from packaging timber, boards, planks, battens and frames to construction timber for private customers, tradesmen and also for industry. The company is PEFC and FSC certified.

FILCOM provides support from the raw material up to the processing

Hydraulic power units and components are used in various areas of the sawmill. The production sequences and machine processes are coordinated down to the smallest detail with the aim of significantly increasing productivity and energy efficiency.

The starting point for processing is the logyard, where the delivered wood is debarked, measured, and sorted. The dimensions of each individual log are recorded here and thus form the basis for further processing in the sawmill as well as for invoicing with the supplier.

Forklifts and grappling machines are real powerhouses and still maneuverable. They do a great job in the log yard. Their performance is supported by a high-performance unit that supplies the vehicle drive and working hydraulics with filtered oil. And this is where Filtration Group Industrial's filter systems come into play. Filtration Group Industrial filters are used in the material handling vehicles at Sägewerk Fuchs. Our customer relies on Pi 1710 series suction filters, which are characterized by their robust design and large filter area. The filter area is dimensioned to ensure a long service life. The filter is installed upstream of the pump in the tank to protect against coarse contaminants in the hydraulic system that can enter the tank and are not removed by other filtration..



Best-Class-Filtration in the Sawmill

Using state-of-the-art sawing technology such as gang pre-cutting and edging circular saw post-cutting, the logs are processed into lumber and then graded according to quality. Here, hydraulic equipment moves the large logs based on the maximum energy transfer of the pressurized fluids. However, this can only be exploited if the hydraulic fluids are pure. FILCOM GmbH supplies the Fuchs sawmill with a wide range of hydraulic filter elements. With the patented PulseShield technology, the elements offer an effective solution against pressure fluctuations that occur in almost every hydraulic circuit. Particles that have already been separated are not released from the filter medium again during pulsations due to the PulseShield technology.



FG Suction filters and filter elements
Picture source: Filtration Group Industrial

AIR PURIFIER SILENTCARE WITH HEPA-FILTER FUNCTION

Effective room air filtration for a high level of safety

Clean air free of viruses, bacteria and other pollutants significantly promotes our health. Particularly in rooms with a high number of people, the number of airborne pollutants increases rapidly, thus greatly increasing the risk of infection with pathogens.

The SilentCare air purifier with HEPA filter function from Filtration Group Industrial is the perfect solution, especially for rooms where the supply of fresh air cannot be guaranteed to the optimum extent. This filters ambient air regularly and, above all, very quietly. The noise level of SilentCare is well below the average noise level of an office of about 50 - 60 dB(A) and guarantees undisturbed work..

FG SilentCare
Picture source: Filtration Group Industrial



Convincing point for point - „Made in Germany“

The SilentCare room air filter is a product manufactured in Germany. Thanks to a simple design, the device is mobile and flexible to use due to rollers and scores with a low space requirement. The room air filter convinces with a very low energy consumption.

HEPA filter element

The SilentCare air purifier is equipped with a HEPA filter. The filter element in separation class H14 according to EN1822 filters at least 99.995 % of pollutant particles in the range 0.1 - 0.3 µm. The three-layer filter medium ensures efficient filtration of almost all aerosols present in the ambient air of closed rooms. Thus, pollutants can be reduced to a minimum level. The filtering micro glass fiber layer is embedded between two polyester nonwovens. This prevents contact with the filter layer..

Quiet and draught-free operation

The SilentCare air purifier with HEPA filter function guarantees extremely quiet and draught-free operation (< 43 dB(A)) with optimum air circulation compared to devices on the market due to the large filter surface.

Multi-stage operation enables individual adaptation to room use, provided that intermittent ventilation is not possible between two changes of use. It is possible to achieve higher air exchange rates via the boost function and thus to specifically filter out possible pollutants from the air.

Air circulation and purification

The SilentCare air purifier with HEPA filter function scores with the following details:

- 360 ° air circulation and purification
- Air flow of 600 m³/h +/- 50 m³/h (max. 900 m³/h +/- 50 m³/h)
- 5-fold air exchange per hour for rooms up to max.70 m²

Promotion of mobile air purifiers

To protect the health of children and young people, the German government is providing a total of 200 million euros for the purchase of mobile air purification devices. The subsidy amounts to up to 50 percent. The application for the funds and the implementation are carried out by the federal states.

Companies receive financial support from the federal government through the **Bridging Aid III program** and can thus compensate to some extent for financial losses caused by the Corona pandemic. As of September 1, 2020, the acquisition costs for air purifiers purchased for business purposes can also be covered, among other things, via be covered by this subsidy.

SILENT CARE IN THE WORLD OF DRINKING PLEASURE

aquaRömer - AQUA that even the Romans appreciated

AQUA RÖMER is a calcium-rich mineral water from the Swabian-Franconian Forest. Traces of the Roman past show that already the Romans refreshed themselves at the springs. The popular products are bottled directly at the spring in Mainhardt. AQUA RÖMER is the first mineral water in Baden-Württemberg to be marketed in an environmentally friendly returnable PET bottle. The labels of the bottles are adorned with a Roman, which has always been part of the brand name and has become a trademark.



SilentCare as guest of bubbly friends

The silent filtration hero from Filtration Group Industrial is used on a daily basis at aquaRömer in the company canteen, in meeting rooms and in offices. Thus, in times of COVID-19, it makes an important contribution to making everyday work as pleasant as possible for the employees.

aquaRömer purchased no less than 5 units from FILCOM GmbH. According to Jens Möck, responsible in the purchasing / materials management department, the great advantage of the SilentCares is not only the filter effect, which contributes to the protection of all employees, but also the flexibility and mobility of the device. Mobile castors ensure uncomplicated and quiet transport of the device from room to room.



FG SilentCare mit HEPA filter function
Picture source Filtration Group Industrial



For a high level of safety

The more people in an enclosed space, the greater the likelihood that airborne germs, including coronavirus, will spread. And the longer people stay in such a room, the greater the risk of infection by diseases such as COVID-19.

SilentCare is the perfect solution:

- 360 °air circulation and purification
- High performance with low noise pollution possible (< 43 dB(A)) with optimal air circulation
- Regulation of the power possible through the multi-stage operation. This allows individual adaptation to room use comparable to shock ventilation
- Compact and attractive design for mobile use

SilentCare - also appreciated by the Romans



The SilentCare is used in particular where individual and flexible working is not possible, e.g. in the canteen, in meeting rooms or open-plan offices.

Jens Möck, Purchasing/Materials Management
aquaRömer GmbH & Co. KG



THE ENTIRE WORLD OF

COMPRESSED AIR ■

FILTRATION ■

TECHNOLOGY ■

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