

# JUST FACTS

The FILCOM magazine for customers and partners



## FILCOM SEPARATION

FILCOM is new cooperation partner for the aftermarket bilgewater deoiling

## AND THE FOREST BECOMES GREENER

FG Fluid filters in forestry technology for professionals

## NITROGEN GENERATORS FROM FST

FST - There is always a solution

## EDITORIAL

Dear Readers,

in the midst of the fourth wave of the pandemic and with the rise of omicron variant, many are looking to the new year with concern and fear. But there are certainly many reasons for optimism and confidence. Germany is not the only country to have endured two dark years. Worldwide, no one probably even imagined such a protracted pandemic at the turn of the year 2019/2020.

In addition to major challenges, the coming year also offers many opportunities, because 2022 is full of sporting highlights! The European Handball Championships kicked off in January, followed by the Olympic and Paralympic Winter Games. Further top attractions await in the summer, including the Tour de France, the UEFA Women's EURO and the European Championship. The highlight at the end of the year will undoubtedly be the FIFA Mens' World Cup in Qatar, which will be held in the winter months for the first time in 2022.

A challenging year - and yet it can be a good one. Because it depends on each individual. FILCOM GmbH will also face the growing challenges of today in 2022 with a motivated team in the field of filtration. I am happy to be a part of the FILCOM family since 01.01.2022.

As a sales engineer in the field of filtration, I will be on the road in Southern Germany to support you in all matters relating to complex, industrial applications for liquid filtration, process filtration, dust removal technology, filter media as well as filter components. For more than 25 years I have been involved with industrial filtration in a wide variety of markets and applications. My main focus is on the challenges faced by customers. It is often the details that determine whether the customer is satisfied. Details that may not even be consciously noticed determine whether a project is successful or not. With my extensive knowledge of process engineering and my many years at Filtration Group Industrial, I am always fascinated by the fact that sometimes you have to dive very deep into the product and its application to understand the core and the customer. This is of course exciting. As a new team member in the FILCOM family, I would also like to support you and provide the necessary impetus for new projects and challenges. I look forward to exchanging thoughts and ideas with you. In the future, it will continue to be our ambition to accompany you in the FILCOM Filtration business as partners and to work together successfully with you as customers and partners.

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

Yours,

A handwritten signature in blue ink, appearing to read "M. Köhler", is positioned above the printed name.

Manfred Köhler  
Sales Engineer Filtration



Manfred Köhler  
Sales Engineer Filtration

# CONTENT

- General information ..... **4-5**
- Piping systems from AIRpipe ..... **6**
- ... and the forest becomes greener ..... **7-8**
- Plastic in perfect form ..... **9-10**
- Nitrogen generators from FST ..... **11**



# GENERAL INFORMATION

## Grand Prix of Medium-Sized Businesses

FILCOM GmbH has been nominated for the „Grand Prix of Medium-Sized Businesses“!

We are very proud about this nomination for the currently running competition under the motto „To new horizons“. This means that we have already achieved the first stage of the 2022 competition. FILCOM GmbH is on the nomination list for the nationwide „Grand Prix of Medium-Sized Businesses“.

The Oskar Patzelt Foundation from Leipzig has been awarding the most important German business price, the „Grand Prix of Medium-Sized Businesses“, since 1995 and thus honors outstanding achievements of medium-sized companies nationwide. Here the growth and value elite of the middle class are considered. There are companies that steer their course with strong values, a clear strategy and a high degree of flexibility and are full of innovative and investment power despite setbacks and crises. In line with the motto: „Healthy SMEs - Strong economy - More jobs“.

Many thanks to the BVMW - Bundesverband mittelständische Wirtschaft, Unternehmerverband Deutschland e.V. for this award. We are proud to be a part of this community.



**Nominiert für**  
**Großer Preis des**  
**MITTELSTANDES**



## FILCOM Separation

Since 01 January 2022, FILCOM GmbH is the new cooperation partner for the aftermarket bilgewater deoiling for Filtration Group Industrial in Hamburg. We are very pleased about this cooperation, which perfectly fits the FILCOM world on a professional and human level.

With FILCOM separation we complete our powerful product portfolio in the field of filtration technology. With immediate effect, we will take over the handling of the aftermarket business for the deoiling sector. FILCOM GmbH now also offers fast and uncomplicated processing of all spare parts business in the field of separation. Through close cooperation and coordination with Filtration Group Industrial in Hamburg, we offer expertise in this field. Our product portfolio is thus extended by an interesting area.

Through the mutual exchange of information and the cooperation of the specialists at FILCOM as well as Filtration Group Industrial, we offer our customers an efficient, fast and continuous supply of spare parts for the deoiling sector. The FILCOM logistics concept covers all requirements. We will also support our customers in special projects and challenges and answer their questions.

We look forward to working with you!



# GENERAL INFORMATION

## Room sponsorship of FILCOM GmbH

„Because acting does good!“ has a central meaning for the FILCOM GmbH team again this year. This year, with a donation of 5,000 €, the company is taking on a room sponsorship for an entire year in the Blue House.

Not at home, but at home. Since March 2012, families with sick children have found a temporary home in the family house of the Förderkreis Krebskranke Kinder e.V.. Parents, siblings, patients and relatives can live here for the duration of the treatment and thus be together. For FILCOM GmbH, this is already the second visit to the Blue House and a renewed affair of the heart, to support the association. Last year, Managing Director Nicolai Maxa had donated a room air filter to the facility and made a Christmas donation to the association.



At the handover of the donation in the Blue House  
f.l.r.r.: Prof. Dr. Stefan Nögele, 1st Chairman of Förderkreis Krebskranke Kinder e.V.  
and Mr. Nicolai Maxa, Managing Director FILCOM GmbH

## WHAT IS BEHIND THE ROOM SPONSORSHIP

To cover the running costs for an apartment in the Blue House over a whole year, costs of about 5,000 € are due. The ongoing operation of the Blue House with over 6,000 overnight stays per year requires permanent support from donations to cover expenses for support staff, cleaning services, ancillary costs such as electricity, district heating, water, repairs etc. For the FILCOM team, the year 2022 will again be marked by the motto - TOGETHER STRONG & DO GOOD!



## Addition to our website

In the future we will continue to design our website informative, modern and of course responsive. In addition to a modern design, the main focus of the design is the continuous adaptation of the content to the needs of our target groups. This way you, no matter if you are a customer, partner or interested party, will get an even more detailed overview of the core competences and the range of services of FILCOM GmbH without much search effort.

The focus is on the company section, which we have supplemented with a team page, customer references and 10 points for FILCOM. Here you can quickly and easily find all the necessary information about our company, our customers and 10 reasons that speak for us as your new partner. You think this could be even better? You are welcome to send us suggestions for improvement, we appreciate praise and criticism!

We hope you enjoy discovering the new areas and sections!





## PIPING SYSTEMS FROM AIRPIPE

### Piping systems for compressed air, vacuum & noble gases

AIRpipe specializes in supply systems for compressed air and liquids. Made entirely of aluminium, the AIRpipe system is manufactured from high quality materials and is environmentally friendly. The products have only a fraction of the weight of steel pipes and steel connections, making installation easier. This does not require other heavy tools on site. The lightweight aluminium pipes and fittings are conveniently packaged for immediate installation. AIRpipe's modular design makes the system ideal for both new installations and retrofits, and allows for easy modifications.

### Energy & cost savings guaranteed

Top performance comes about when experts meet at eye level and use their experience to jointly develop solutions for saving energy and costs. A successful future consists of the interaction of products and experience. FILCOM GmbH together with AIRpipe offers solutions for piping systems that are flexible easy and quick to install. The smooth surface of the aluminium pipe and the same flow cross-section in the area of the connections ensure a constant supply of clean air and a reduced pressure drop. Absolute freedom from leakage and superior service life mean further savings compared to outdated, traditional pipe systems. FILCOM GmbH and AIRpipe therefore jointly focus on superior performance and system longevity. Because quality is the only thing that lasts in life!



### FILCOM GmbH & AIRpipe - two strong partners

Leakage and stainless pipe, with the appropriate design in terms of length and cross-section, have a not inconsiderable share in the performance of compressors. The pipe system is an integral part of the compressed air system and always worth a closer look. For this reason, we at FILCOM GmbH rely on piping systems from AIRpipe.

If the pipes have a narrow cross-section, the compressor has to build up more pressure to force the air through the pipes. Every bar costs energy. By using pipelines with the right cross-section, the customer saves money with the same or even better performance.

Pipeline construction is a matter for experts. That is why FILCOM GmbH has a strong partner at its side in AIRpipe. Together we are familiar with the developments and advantages of modern materials, and we also make expert judgments on the use of existing performance materials in new systems.



## ... AND THE FOREST GETS GREENER

### Forestry technology for the professional

Since 1969, the name Noe has stood for quality from the Odenwald. True to the company motto: „There's no such thing as can't“, Otmar Noe GmbH develops forestry machines that simplify and improve work in the forest. In addition to forestry companies, the company also supplies industrial customers from all over Europe. With around 70 employees, vehicles, driver's cab and equipment for use under difficult conditions for agriculture and forestry are manufactured at the side in Mudau.

### From contract manufacturer to forestry machine producer

In the mid-60s, Otmar Noe, who gave the company its name, began to build up contracting manufacturing. The high quality level as well as the delivery reliability from the Odenwald convinced the customers very quickly. Especially in the vehicle construction industry Otmar Noe GmbH has a very good name. The flexibility of the production has always been an important argument in the company.

Welded components with mechanical processing have been manufactured at Noe since the mid-1960s. New CNC machining centers with ever increasing machining possibilities support the development of the new customer groups. Otmar Noe GmbH focuses on the production range and supplies customers at home and abroad with welded assemblies with mechanical fabrication, painted ready for assembly. By expanding the 3-pillar strategy, the company founded the forestry machinery division in 1996.



4-wheel special forestry machines NF170-4R

Picture source: Otmar Noe GmbH

### Fluid filters make the world greener

Hydraulic filters from Filtration Group Industrial ensure that the pressurized fluid in the circuit of a plant or machine meets the required purity class. In this way, they ensure a consistently high level of efficiency in the transfer of energy, while protecting plant components from damage and premature wear.

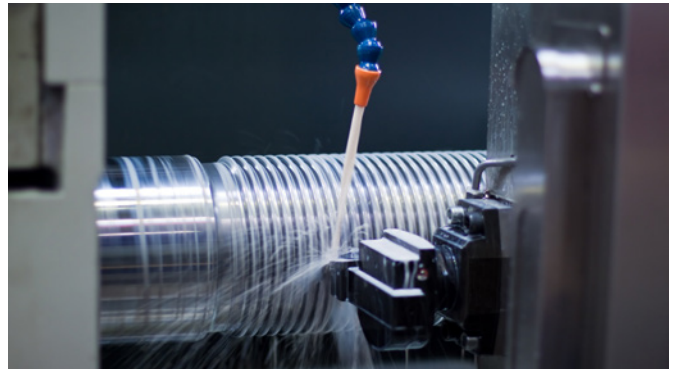
## The perfect solution for milling machines

Filtration systems from Filtration Group Industrial play a key role in protecting sensitive hydraulics in machine and plant engineering by keeping the fluids in the circuit clean. Efficient solutions for every application in the hydraulic circuit prevent liquid or solid contaminants from attacking components and limiting the efficiency of pressurized fluids. The material and design of the filter media ensure a large dirt-holding capacity and consistently high separation efficiency throughout the entire service life. The cleanliness classes of the fluids can be maintained even under extreme conditions such as strong pressure fluctuations or pulsations.

## Milling machines run like clockwork

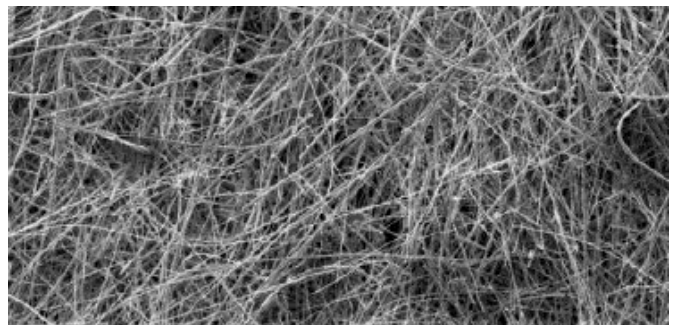
The permanent availability and efficiency of milling machines is the key to high productivity and effectiveness - also at Otmar Noe GmbH. FILCOM GmbH delivers certified quality according to DIN EN ISO 9001:2015 not only today and tomorrow but also the day after tomorrow.

Otmar Noe GmbH uses filter elements type **Pi 1030 KS MIC 25/K197** from FILCOM GmbH to keep hydraulic fluids clean on a milling machine. These are highly efficient disposable depth filter elements for cooling lubricant applications. The depth filter used consists of several matched, binder-free polyester materials. These have a very high dirt-holding capacity and low flow resistance. The filter fineness is 25 µm according to FG Industrial standard - measured according to ISO 16889 (multipass test).



## Variety in the program

In the development and manufacture of filter elements, our partner Filtration Group Industrial focuses on top quality. Top performance is only ever achieved when experts meet at eye level and use their experience to develop joint solutions. A successful future consists of the interaction of our customer's products and experience.



Filter material KS-Mic especially for cooling lubricant applications

The filter elements used at Otmar Noe GmbH deliver top results in the desired cleanliness class and convince with a high dirt-holding capacity. The patented design with robust parts ensures the longevity of the filter system and stable performance efficiency over the entire service life. Thanks to optimal particle separation, the filter elements at Otmar Noe GmbH protect against rapid wear of expensive components on the milling machine and thus prevent high maintenance costs.

FILCOM GmbH is your competent partner for filtration technology. This is proven by our customer base. With more than **40,000 customers** worldwide **in 90 countries**, we maintain **long-term partnerships** in mutual trust and have been working together for over **21 years!**





## Transparent solutions that connect

Schäfer Kunststofftechnik GmbH, located in Ortenberg, successfully produces high-quality products made of semi-finished plastics: in addition to designed machine claddings of complex construction for mechanical engineering, fancy diffusers for the lighting industry or complex precision parts for laboratory and automation technology, our customer also offers solutions in the field of interior design and advertising technology. Schäfer Kunststofftechnik with its experienced team is a full-range supplier of components, assemblies or end products around acrylic glass, polycarbonate and engineering plastics - no matter if prototype, single part, small series or large serial production.



5-axis milling machine at Schäfer Kunststofftechnik  
Picture source: Schäfer Kunststofftechnik GmbH



## Division of labor enables continuous operation

On a high-quality 5-axis milling machine, the Pi 370 duplex filter with a capacity of 300 l is responsible for the filtration of cooling lubricant at Schäfer Kunststofftechnik. The duplex filter from Filtration Group Industrial ensures reliable operation without downtime.

Our customer uses the duplex filter as a safety filter (police filter) for the filtration of cooling lubricant. A pump draws in the cooling lubricant. The fluid runs back through the filter into the spindle via a hose. 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.

Especially when machining plastic parts with internal cooling of the tool, it is important that the cooling lubricant is free of minute particles, as otherwise clogging can occur.

## Cooling lubricant treatment

Whether in the automotive industry, mechanical engineering, medical technology or plastics technology, machine tools are required wherever workpieces are manufactured. Today, more than 90 percent of the cooling lubricants used in metal and plastic processing are cleaned, thus ensuring a smooth production process. Cooling lubricants minimize wear on expensive precision machines and make a decisive contribution on the surface quality of the manufactured products. The field-proven duplex filters from Filtration Group Industrial ensure smooth operation without downtime. The high-performance filters provide the optimum basis for efficient, safe and economical production of high-quality goods, without process interruption during filtration.



FG Duplex filter Pi 370  
Picture source: Filtration Group Industrial

## Pressure filter as duplex filter

Duplex filters from Filtration Group Industrial are particularly suitable for use in machines that must not come to a standstill, as is the case at Schäfer Kunststofftechnik GmbH. Pressure filters are designed for use as full-flow or partial-flow filters and for the medium pressure range up to 210 bar. They are installed after the pump and pressure relief valve upstream of the components to be protected.

Highest efficiency in the medium pressure range is offered by duplex filters with one-hand operation and loss-free switching of the liquid flow. The filter elements can be easily changed during operation with the operator flipping the lever to do so:

A special lever in the handle enables switching and pressure equalization with one hand. Thanks to this patented one-hand changeover, the plant can continue to run without interruption at our customer's site. When filter elements need to be replaced is reliably indicated by the standard built-in maintenance indicator.

In filter systems with high throughput rates, the elements can be removed from the top and replaced. This means that the systems meet the highest standards of ergonomics and economy.



Plastic product manufactured on the 5-axis milling machine at Schäfer Kunststofftechnik.

Picture source: Schäfer Kunststofftechnik GmbH

## High-performance filters for modern hydraulic systems

FILCOM GmbH supplied Schäfer Kunststofftechnik GmbH with an important component for keeping the cooling lubricant clean. The use of the FG duplex filter **Pi 3730-012** ensures efficient filtration and increases the service life of the 5-axis milling machine and ensures trouble-free operation over a long period of time.

FG Duplex filters type Pi 370 offer our customer further benefits:

- low space requirement due to compact design
- minimal pressure loss due to streamlined design of components
- ergonomic change-over lever with lever lock and pressure compensation
- user-friendly one-hand operation
- guaranteed separation rates according to multipass test ISO 16889
- high differential pressure stability and dirt holding capacity of the elements

Top performance is achieved when experts meet at eye level and use their experience to develop solutions together. FILCOM GmbH also supports its customer Schäfer Kunststofftechnik GmbH for a further successful future in order to perfectly shape the interaction of products and experience. Because quality is the only thing that lasts in life - in order to continue to create plastics in perfect form in the future.



FG duplex filter in installed condition on the 5-axis milling machine

Picture source: Schäfer Kunststofftechnik GmbH

## FST NITROGEN GENERATORS

### **FST GmbH - There is always a solution**

FST GmbH Filtrations-Separations-Technik has specialized in the field of industrial treatment of compressed air and technical gases, a market segment with a growing demand for innovative, efficient, economical as well as resource and environmentally friendly technical solutions. With the extension of the delivery program by the product group GNA nitrogen generators, FST responds to the demand in the field of laser cutting as well as 3D printing.



### **GNA nitrogen generators**

Nitrogen generators of the GPS series are designed for the generation of gaseous nitrogen from compressed air from 0.6 to 330 m³/h at purities between 95 % and 99.995 %. The generators operate in a pressure range from 5 to 9 bar g.

#### **Function**

To generate nitrogen, a quantity of compressed air defined in terms of quantity, pressure and quality is fed into a tank of the generator filled with activated carbon. In the process, the clean material in the compressed air is absorbed. The activated carbon, enriched with oxygen molecules, must then be regenerated before it can be used again for another adsorption process.

Therefore, for continuous operation of a nitrogen generator, two tanks are required which are operated alternately - one tank for taking up the oxygen from the compressed air (adsorption), the other tank with the regeneration of the activated carbon. The alternating interval between adsorption and regeneration in the GNA series is 40 - 180 seconds. In this mode of operation, for the regeneration of the activated carbon, a part of the produced quantity of nitrogen is taken from the outlet of the generator, expanded to ambient pressure and passed through the vessel to be regenerated. The expanded and extremely dry nitrogen extracts the stored oxygen from the activated carbon and releases it into the environment via a silencer.

#### **Features**

The molecular sieve used (CMS activated carbon) has a high absorption capacity of oxygen molecules and a lifetime service life. As a result, continuous delivery rates with specified purity are achieved during operation. The container chambers are switched over via external, individually controlled valves that are freely accessible for maintenance. The flow cross-section are dimensioned to ensure the lowest possible pressure loss over the entire unit. The valves and all other necessary components are controlled by a Siemens S7 touch control system.

GNA nitrogen generators are flexible in use, economical and reliable. They convince with high performance and service life as well as safe operation.



GNA nitrogen generators  
Picture source: FST GmbH



THE ENTIRE WORLD OF

**COMPRESSED AIR ■**

**FILTRATION ■**

**TECHNOLOGY ■**

 [www.filcom.de](http://www.filcom.de)

**FILCOM GMBH**

Riedstraße 17/1  
DE-73760 Ostfildern

**P** +49 (0)711 / 441 33 22-30

**F** +49 (0)711 / 441 33 22-22

**E** [info@filcom.de](mailto:info@filcom.de)