

NEWS++++

ALL THE LATEST OF THE WORLD OF SCHÜTZ | ISSUE 1 – 2017



NEW PRODUCTS AND INNOVATIVE SOLUTIONS

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SCHÜTZ AT INTERPACK 2017!

WHAT INSPIRES US?

Visit SCHÜTZ at Interpack 2017 and discover what continually inspires us in our search to find the best packaging solutions for our customers.

The world's biggest packaging trade fair takes place from 4 to 10 May in Düsseldorf. Every three years, this fair is the meeting place for the food, beverage, confectionary, bakery products, pharmaceuticals, cosmetics, non-food and industrial goods industries.

COME AND
FIND OUT!

This year's motto of the SCHÜTZ booth at the show is "Innovative. Reliable. Sustainable. Global." This is the formula we apply when developing new packaging solutions. Similar to DNA, it determines our ideas and actions, and allows us to be a reliable partner for our customers and give them optimum support in packaging and logistics.



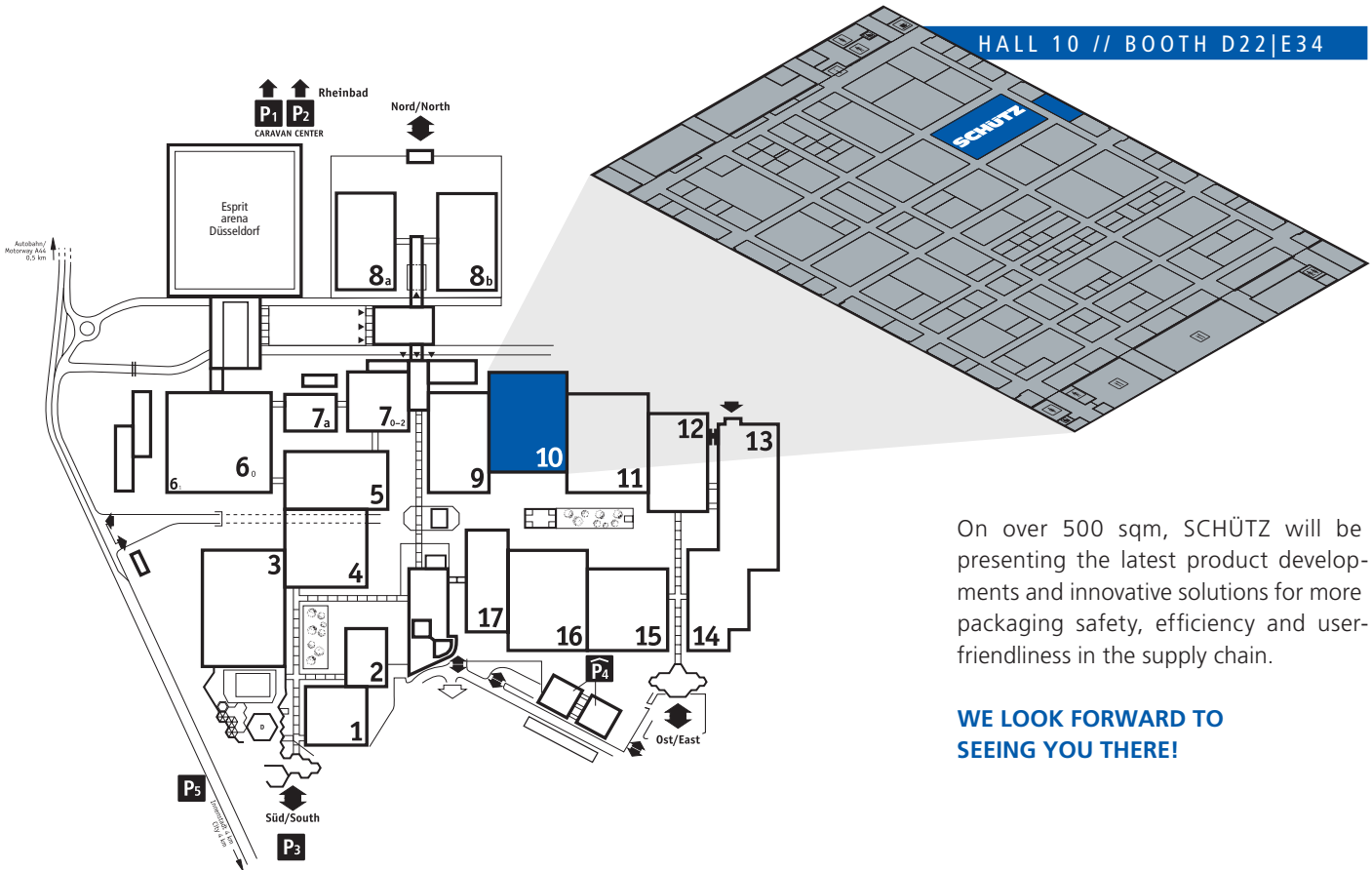
4 – 10 MAY 2017
DÜSSELDORF EXHIBITION CENTER
HALL 10 // BOOTH D22|E34

INNOVATIVE

RELIABLE

SUSTAINABLE

GLOBAL



On over 500 sqm, SCHÜTZ will be presenting the latest product developments and innovative solutions for more packaging safety, efficiency and user-friendliness in the supply chain.

WE LOOK FORWARD TO SEEING YOU THERE!

A SMALL PART WITH A BIG EFFECT



When it comes to safety and quality, the outlet valve is one of the most important components of our IBCs. They have to fulfil a variety of conditions. Included are factors such as the filling product and its viscosity, gasket resistance and how the IBCs are transported which must be considered.

We have now expanded our standard range of fittings by adding the integrated DN 80 outlet valve. It applies the successful concept of our integrated DN 50 outlet valve to the DN 80 nominal width and is now about to go into serial production. The valve is not screwed into the inner bottle, but

welded. This type of connection offers a number of benefits for the user: the outlet valve is secure, cannot be twisted and has great dimensional stability. As the component cannot be replaced, users know that they are getting original SCHÜTZ quality and the IBC has a better protection against manipulation. In addition, the integrated outlet fitting does not require a flange gasket; this further



enhances safety as gaskets can present a variety of risks on account of their different degrees of stability.

For ex-zones the outlet valve is also available in an earthed version: a screw in the earthing plate in the outlet area and a wire maintain contact with the bottom plate. This neutralises any electrostatic charges.

A TAP WITH POTENTIAL

In both the integrated and the screw design, the butterfly valve in the new DN 80 outlet valve will have a new gasket: the ETFE gasket previously used is being replaced with a spray-on polypropylene (PP) gasket. This reusable material has already been thoroughly tried and tested in the DN 50 valve and has been used by us for decades as a carrier material in the body of the butterfly valve. PP is also characterised by high chemical stability and offers good mechanical properties. In the design type

test, the gaskets were tested with the standard liquids and were subsequently approved. All raw materials used to make the gaskets are suitable for direct contact with foods, they comply with the requirements of the Food and Drug Administration (FDA) and are certified according to FSSC 22000. Another positive effect is that it makes it easier to open and close the DN 80 butterfly valve.

The outlet valve is secure, cannot be twisted and has great dimensional stability.



WITT & CO. JOINS THE RECOBULK PARTNER PROGRAM



RECOBULK

RECOBULK stands for reconditioned IBCs in original SCHÜTZ quality. In a globally standardized, eco-friendly process these containers are reconditioned, turning a used ECOBULK into a hundred percent compatible RECOBULK in the standard specification.

We offer selected partners who share our corporate philosophy with regard to quality, originality and sustainability the option of a special cooperation: appropriately equipped, they also produce SCHÜTZ RECOBULKS, exactly to our standards. Now, Witt & Co. GmbH, an experienced reconditioner and long-

standing business partner, has joined our RECOBULK partner programme.

Witt & Co. is the leading specialist for reconditioning in Northern Germany. In addition to their established trade business for various industries, the company also has a long tradition of reconditioning

used industrial packaging. Equipped with advanced facilities, the Hamburg company reconditions in accordance with the highest environmental and quality standards. We have been working with Witt & Co. since 1979, and they are one of our oldest retail partners. Over the past decades, this business relationship has been



continually extended and expanded. In the almost 40 years that our two companies have been cooperating, more and more similarities have emerged: "We share a common understanding regarding safety, quality and resource conservation. The great trust that has grown on both sides is now being underscored with the RECOBULK cooperation agreement," says Stephan Witt, CEO of Witt & Co. Their experience and know-how in reconditioning our products makes the Hamburg-based company an ideal match for our partner programme.

HIGH QUALITY THANKS TO SAME PROCESS STANDARDS

As our new cooperation partner, Witt & Co. is producing our RECOBULK in the same quality as SCHÜTZ with the original UN approvals. We provide the Hamburg company with the necessary production equipment and original spare parts. In return, the company agrees to adopt and

apply uniform process standards, which are regularly audited by SCHÜTZ. This ensures that customers can use a RECOBULK – regardless of whether it has come from us or from Witt & Co. – to transport their filling products with complete confidence. At the same time, they profit from the product's strong economical and environmental efficiency.

RECOBULK – AN ORIGINAL BY SCHÜTZ AND OUR PARTNERS

Just like our new IBCs, for reconditioned IBCs SCHÜTZ focused from the very start on providing the highest quality; to achieve this we established our own standard. To rule out potential risks from the parallel use of new and used packaging, RECOBULK offers exactly the same safety as a new container. The SCHÜTZ standard guarantees a globally uniform reconditioning process that complies with the highest environmental, safety and quality management standards. The

new brand name instantly underlines the originality and quality of the reconditioned product.

For our customers this means: regardless of whether customers use a reconditioned RECOBULK or a new SCHÜTZ ECOBULK, they always benefit from the same original quality paired with high safety – even when using both types together. Furthermore, the production of each reconditioned IBC saves around 100 kilograms of CO₂ emissions compared with a new IBC.

The trading company was founded in 1916 as a coopeage. Initially, 35 workers made wooden barrels for a wide range of purposes. Back then, the company already made its first experience with "recycling" by taking back used wooden barrels in order to recondition them for reuse. In 1956, the company branched out by adding a cleaning line for steel drums. They relocated to an industrial zone in Hamburg-Billbrook in 1966. Over the years, the company expanded by extending its site and the range of reconditioned products also grew at the same time. In 2008, an advanced cleaning line for IBCs was introduced and in 2012 a modern line to replace inner bottles was added. All wastewater is treated in a complex distilla-

tion process and pumped back into the cleaning cycle. These activities clearly show that Witt & Co. shares a sustainability philosophy with us. The wholesaler's current portfolio includes industrial packaging made of steel, plastic and fibre, comprising mainly of IBCs, drums, jerry cans, buckets and bottles – around 2,100 items in total. Their customers include major businesses in Northern Germany in the sectors: chemicals, mineral oil, construction materials, food, perfumes and flavourings.

WITT+CO.
Industrieverpackungen

The company
has a long tradition
in reconditioning used
industrial packaging.

THE BEST OF THE BEET, TRANSPORTED SAFELY

When it comes to handling food, safety and transparency are particularly important – especially for consumers. This is regularly borne out by studies and surveys, including ones by the German Agricultural Society (DLG), the Society for Consumer Research (GfK) and the Federal Ministry for Nutrition and Agriculture (BMEL).

Accordingly, the food industry sets high standards when it comes to producing and transporting food. Only maximum safety along the entire supply chain guarantees maximum quality. With these needs in mind, SCHÜTZ developed the FOODCERT range of IBCs and drums. They provide comprehensive material, product and process safety that goes far beyond the standard. Suiker Unie from the Netherlands shares these quality standards with SCHÜTZ: the manufacturer uses SCHÜTZ containers to pack products in its extensive range of dry and liquid sugar varieties.

“Cleanliness, security and quality are the pillars on which our company rests – from beet growing on the fields all the way to packaged sugar on supermarket shelves”, says Wim Peltenburg, QSHE coordinator at Suiker Unie. The globally operating sugar producer has its origins in the fusion of cooperatively organised sugar factories in the Netherlands at the beginning of the 20th century. The company currently has five factories. In Dinteloord, Vierverlaten and Anklam, beets are processed into granulated sugar. The speciality factory in Puttershoek produces soft sugar, icing sugar and sugar cubes for consumers and industrial customers. The factory in Roosendaal produces liquid sugar products, for example syrups. The different types are shipped to customers in the Netherlands, but

are also exported to Germany, Belgium, France, Italy and England.

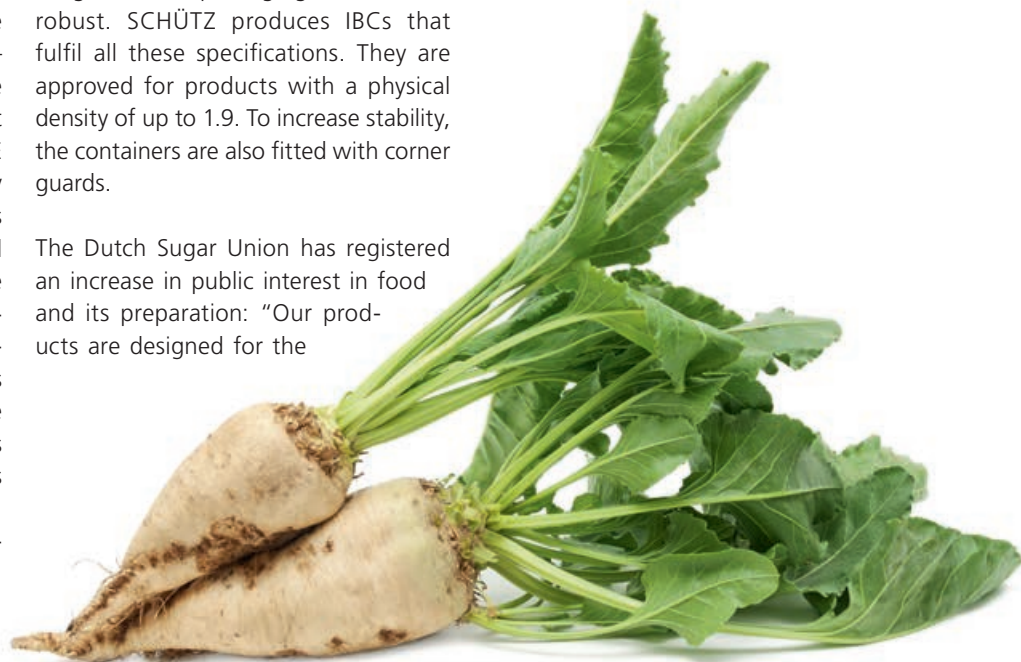
Depending on the consistency of the sugar, the Dutch company transports its sugar in SCHÜTZ FOODCERT models. “We pack roughly ten products from our entire range in 1,000 litre IBCs from this line because they meet our highest standards in food safety and hygiene,” explains Wim Peltenburg. Another reason to use the market leader’s transport packaging is the fact that the Dutch company’s syrups have a high density. As a full IBC can weigh up to 1,400 kilograms, the packaging needs to be robust. SCHÜTZ produces IBCs that fulfil all these specifications. They are approved for products with a physical density of up to 1.9. To increase stability, the containers are also fitted with corner guards.

The Dutch Sugar Union has registered an increase in public interest in food and its preparation: “Our products are designed for the

food and the pharmaceutical industry. Standards for these industries now apply at an increasingly early stage of the supply chain. This means that the packaging materials are also examined very closely.”

CERTIFIED SAFETY – FOR CUSTOMERS AND SUPPLIERS

To meet current standards and anticipate future requirements, Suiker Unie has undergone numerous audits. The factories have multiple certifications. The IFS (German standard for food) and BRC certification (English counterpart) in





particular make an important contribution to the company by certifying food safety and quality. The factories have also established a HACCP system (Hazard Analysis Critical Control Points). In 2012, the company was certified according to the FSSC 22000 (food safety system certification) industry standard. The quality assurance is not limited to the company's own processes; the beet farmers and suppliers of bulk goods, technical equipment, packaging materials and services are all included. These high quality standards explain why the sugar producer uses SCHÜTZ IBCs.

The global player from the Westerwald started the complex certification process (FSSC 22000 based on ISO 22000 in conjunction with ISO/TS 22002-4) for its worldwide production sites in the same year as its customer. The certification process was the decisive basis for the FOODCERT range of IBCs which offer complete safety in three ways: with regard to the materials used, the product and the manufacturing process. They not only meet the requirements of the Food and Drug Administration (FDA) and European directives, but take into account additional factors to minimise risk. In fact, the packaging complies with much higher requirements for food safety.

Both companies follow the guidelines of the Global Food Safety Initiative (GFSI), which recognizes this system certification. The GFSI is the world's largest non-profit organization for improving food safety. It was founded in 2000 by food producers and retailers in order to estab-

lish international standards. The influence area of the GFSI and its "Guidance Document" presently includes Europe, the United States, South America, China and India.

FULL TRACEABILITY

SCHÜTZ produces FOODCERT packaging just-in-time on the basis of individual customer orders: the IBC inner bottles are immediately transferred to final assembly after production and are assembled. Each process and each component is uniquely assigned to the relevant packaging, and all steps and components are free from silicone. The identification of the packaging through a barcode system enables seamless traceability right back to batch and process level. On request, SCHÜTZ can also assign individual identification numbers for articles or packaging. This is very similar to the internal processes at Suiker Unie: the company uses an automatic Tracking & Tracing system to track raw materials and finished products in every single production step.

PREVENTIVE MANUFACTURING

Maximum security requirements require complex preventive programs: just like Suiker Unie, SCHÜTZ has implemented numerous measures within the framework of the HACCP concept. These apply to buildings, equipment and the overall production environment. These also include detailed hygiene rules for staff and cleaning plans for the work stations. Additionally, there are measures to prevent foreign objects or dust, regular

microbiological examinations of process water and air, protection when dealing with waste, as well as glass and blade management. Maintenance rules and controls for machines, systematic pest control on the entire site, rules for the controlled use of all working substances, especially chemicals, and a secure incoming goods area round off the measures.

Finished FOODCERT IBCs are loaded directly indoors without storing and dispatched. Pre-produced components, such as caps, valves and bungs, are also hygienically packaged and stored separately. If the packaging is shipped at a later point then the finished containers and drums are stored in special, closed rooms. Optional plastic covers provide additional protection. All of these measures contribute significantly to protecting of the quality of the filling products.



The new SCHÜTZ GmbH & Co. KGaA office building.

PROVED IN CONTINUOUS USE

When we decided to build a new administration building in 2014, we had a clear goal: this was the perfect opportunity to demonstrate our extensive expertise in heating, controlled ventilation and cooling – completely without conventional air conditioning. Our new 4-channel system, which for the first time allowed parallel operation of heating and cooling depending on individual room requirements, has been in continuous use ever since. The evolution of our successful AIRCONOMY® surface heating and ventilation system allows the two functions heating and cooling to be controlled at the same time and for each individual room. After two years of experience and the analysis of the values, we now have the results.

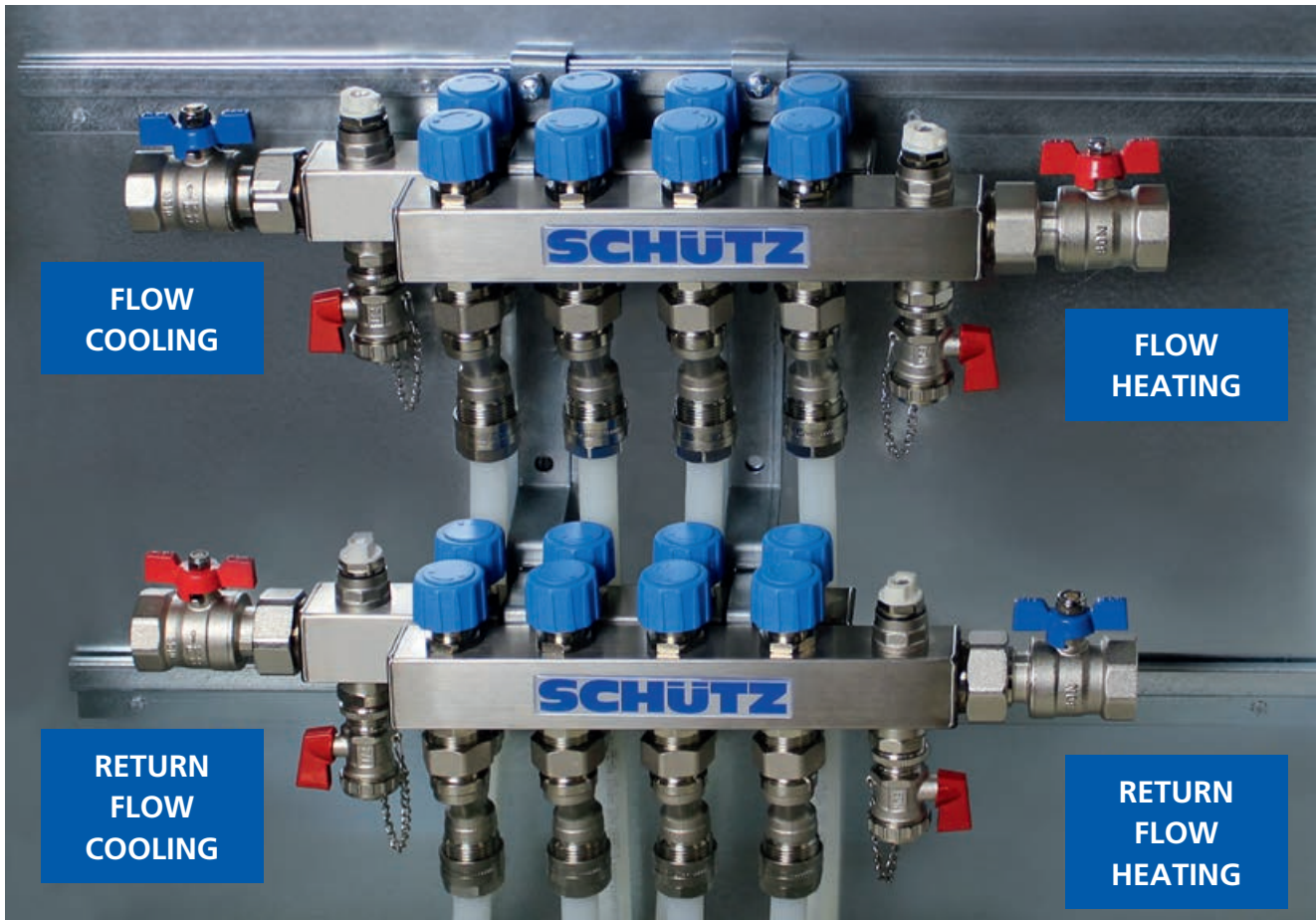
In line with our sustainability philosophy, we wanted the new administration building to be resource-saving and energy-efficient, as well as sustainable in both construction and maintenance. For the office complex, our planners picked a modern heat pump system and passive cooling via a geothermal probe. After just six months' construction, the new building was inaugurated in August 2014. Our workforce, which has grown considerably in the past decade, has the ideal working

conditions on four floors of this state-of-the-art office complex: 52 modern units, three meeting rooms and several kitchens, toilets and store rooms provide our staff with a modern infrastructure that is very efficient to operate.

AIRCONOMY®:
sustainable,
resource-friendly and
energy-efficient.

The building's features include a comfortable indoor climate. Achieving this was a special challenge, as the planners had to ensure that an area of almost 3,000 square metres was permanently supplied with fresh air, kept warm in winter and cool in summer. The building's north-south orientation, its modern architecture and its large windows required effective HVACR services: in the winter, the rooms on the north side require much more heating than the south side, particularly when the sun shines through the windows. In contrast, in the summer,

many employees working on the south side need cooling while the north side is still shivering. And on top of all these requirements, the system had to be able to cope with the individual needs and personal comfort zone of each employee. Last but not least, all of this was to be achieved cost-effectively. It took a completely new approach to meet all of these different needs: the heating, ventilation and cooling settings for all rooms had to be individually controllable.



The primary side connection. Heating and cooling pre- and return connections are positioned on the left or right to ensure the heating and cooling circuits have good thermal insulation.

An integrated HVACR system that could provide heating, ventilation and cooling? It goes without saying that we chose our own AIRCONOMY® system – a complete system that combines classic hot water underfloor heating with controlled ventilation and heat recovery. It also offers the option of cooling as required. Basically, AIRCONOMY® uses an underfloor system to heat or cool the room, and the system also pumps a controlled supply of fresh, filtered air into the building underneath the heating pipes. The AIRCONOMY® system module acts as a heat exchanger and brings fresh air to the desired room temperature: profiles for fixing the pipes on the upper surface and truncated cones on the lower surface form a 2-cm high ventilation channel, through which the supply air widely spreads and flows to the relevant

Building services that integrate heat, ventilation and cooling!

floor outlets. This supply air is heated or cooled, depending on demand. Due to the special geometry of the system module, it functions not only as a heat exchanger but also as a highly efficient sound damper: The experts at the Fraunhofer Institute for Buildings Physics IBP in Stuttgart confirmed the system's noise absorbing qualities. The system also ideally complies with today's heightened awareness of allergies and the importance of hygiene.

It's reassuring to know that the Ruhr Valley Center for Environmental Hygiene certified that AIRCONOMY® provides "A1 room air". There are also energy benefits: in the AIRCONOMY® system, the high efficiency of the heat recovery unit (97 percent) and the flow temperature, which is lower than in conventional underfloor heating systems, results in a very low energy con-

sumption. Measurements conducted specifically found that the current consumption of the entire system in the office building is less than 16 kWh/m²a: this includes the heat pump system, the operation of the ventilation unit and the brine pump. The heating requirements of the building are covered by the heat pump system, the geothermal system is used for cooling.

AIRCONOMY® fully met the specifications in terms of heating, ventilation and cooling. However, the existing heat manifold did not fulfil SCHÜTZ's brief that every room in the building should be individually controllable. SCHÜTZ decided to refine this crucial function.

There are three basic ways to heat or cool a building: the complete switch – for example, via a reversible heat pump – switches the system from heating to cooling, but does not provide an option to control the system by floor or by room. Another method is to control the building by zone where entire heating or cooling sections are switched on or off. However, this would also require separate heat and cooling sources. At the same time, this method would not satisfy all building needs and individual user requirements. Getting a solution that would provide the ability to control individual rooms separately called for a different approach.

Our engineers sat down and developed the innovative AIRCONOMY® 4-channel system. This was achieved by using two heating circuit manifolds simultaneously to which hot and cold water are permanently attached. Depending on the required temperature and the thermostat setting, electric actuators switch the system either to heat or cool. Hot or cold water is pumped through the Y-connectors that link the manifolds into

the respective heating circuit. Fresh air is also pre-heated or cooled. The cooling or heating performance is higher than with a conventional underfloor heating/cooling system.

All the system's technical components are invisibly integrated in the building; only the 56 unobtrusive slits in the floor coverings in the front of the windows hint at the harmonious integration of a HVACR system.

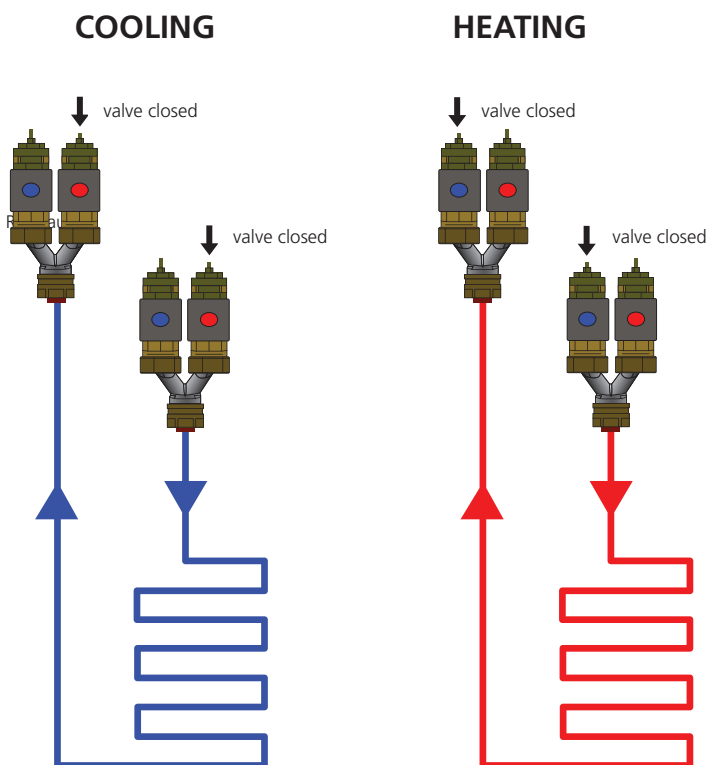
Naturally, our developers were not satisfied with simply finding a solution. Continuous measurements have been performed since June 2015, and the results prove the outstanding performance of the system, which has even surpassed our high expectations: in the very hot summer of summer 2015, temperature readings on the building facade

ranged from 7 °C to 42 °C. The temperatures inside four offices in different parts of the building remained very balanced throughout the testing period and were always between 22 °C and 26 °C. Even on the hottest day, 2 July, where the temperature on the outside of the building was 42 °C in the late afternoon, none of the measurement points showed more than 26 °C.

Alexander Muster, Regional Manager of ENERGY SYSTEMS: "We started manufacturing our heating circuits ourselves some time ago. With this as our basis, we were able to provide a swift solution to the need for individual room cooling with the 4-channel system developed by SCHÜTZ."

The new 4-channel system allows the occupants of each office to set the temperature individually to either heat or cool the room, depending on their specific needs. With the building's large windows and the north-south orientation, this proved to be the ideal way of maintaining a pleasant climate indoors without impacting on other parts of the building. This technology made our office building in Selters the perfect reference project for the decisive benefits of the new AIRCONOMY® 4-channel system, highlighting its ease-of-use and energy efficiency.

For the first time, office occupants can control the temperature in their room individually and can heat or cool according to their needs.



4-channel system for heating and cooling per room. How it works.

FLUORINATION STOPS PERMEATION



SCHÜTZ produces a wide selection of plastic vessels. The product portfolio ranges from IBCs to barrels and fuel oil storage tanks. One thing that all transport packaging in the PACKAGING SYSTEMS division and fuel oil storage tanks in the ENERGY SYSTEMS division have in common is that an additional barrier is essential to prevent the permeation of gases, flavours and fragrances!

This serves to protect the quality of the filling product and also the safety regarding the storage surroundings. Based on decades of experience in plastics processing, SCHÜTZ has developed its own highly effective fluorination process for both product groups to counteract permeation: SMP (Surface Modified Plastics).

SMP fluorination is ideally suited for all plastic vessels used for transporting or storing filling goods that contain solvents. SMP treated packaging is used mainly in the chemical industry, the automobile sector and for fuel oil and gaso-

line tanks. When transporting IBCs and drums in freight containers, fluorination can stop the permeation of solvents and other volatile substances, and prevent the formation of explosive zones. A BAM research project showed that permeation is especially high in IBCs without a barrier while it is exceptionally low in IBCs with a barrier; in the latter the lower explosion limit is not even reached.

The SMP barrier is based on the replacement of hydrogen atoms by fluorine atoms in carbon atom chains of the polyethylene macromolecules. This creates

a perfectly even layer of PTFE – similar to Teflon – on both sides of the vessel. These layers reduce permeation to a minimum. Permanent quality control and testing are conducted to ensure maximum efficiency.

SAFE PROCESS FOR SECURE FILLING PRODUCTS

Fluorine gas treatment takes place in state-of-the-art production facilities. As the first step, the vessel is heated on preparation of the process. The entire fluorination process takes place inside a specially sealed-off area and the vessel is transported into the chamber on a conveyor belt. The concentration and duration of treatment can be individually tailored to the customer's specific requirements to suit the permeability of the filling product.

The fluorine coating reduces the permeation of the filling product considerably. A test shows that under identical storage conditions an untreated HDPE vessel filled, for example, with gasoline, will lose 77.2 percent of its weight due to permeation, while an SMP fluorinated vessel loses only 1.8 percent. In addition, the barrier improves chemical resistance to solvents and substances that are flammable, toxic or corrosive. The performance of the product is not in any way

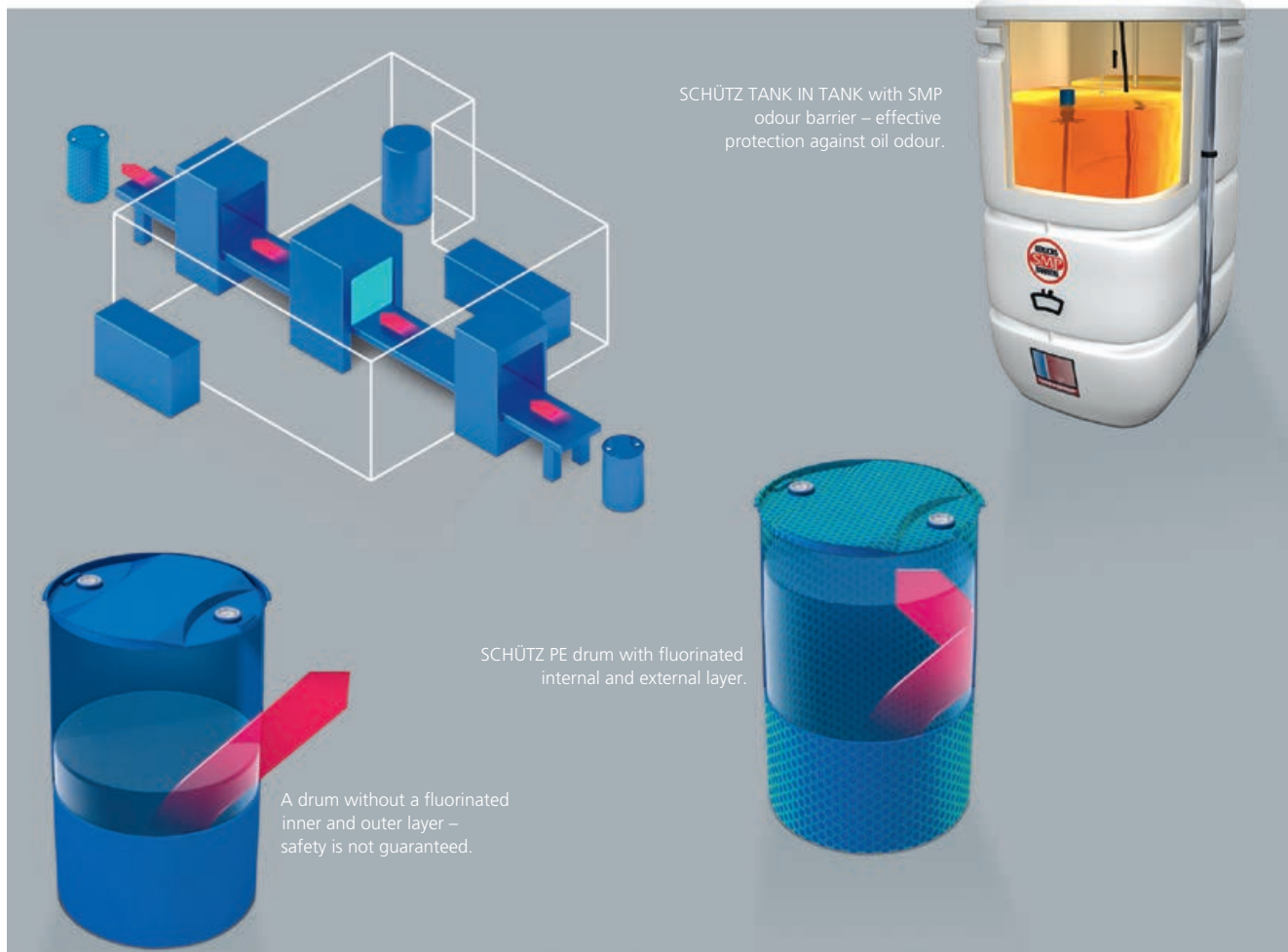
limited by SMP treatment. The superior mechanical properties of HDPE, including resistance to extension, ability to expand, hardness, resistance to cracking susceptibility as well as thermal properties and low-temperature behaviour are not influenced by SMP treatment. SMP-coated plastic vessels provide optimum transport safety. At the same time, they offer an economical storage solution because the contents no longer literally "vanish into thin air" over time.

EXCELLENT ODOUR BARRIER

This treatment method also has a positive influence on the environment and helps to maintain pleasant ambient surroundings in buildings. Fuel vessels that have been SMP-treated have much lower rates of air exchange and evaporation. Accessories for SCHÜTZ fuel oil tanks are also SMP treated, thus providing an extremely effective barrier against the odour of fuel oil. This puts a stop to annoying odours emanating from basement boiler rooms. The effectiveness of our anti-permeation barrier has been verified by the Fraun-

hofer Institute in Freising in extensive tests and measurements, and is subject to continual monitoring. This entitles us to permanently use the quality label PROOFED BARRIER® issued by the Qualitätsgemeinschaft geruchsgesperrte Heizölanlagen e.V. (QgH).

As a special service we also offer our expertise in permeation protection as contract fluorination work for our customers. We treat our customers' vessels in our advanced fluorination lines and requirements. This way, we help to ensure that their products are secure, environmentally safe vessels for sensitive products.



THE IDEAL CONNECTION

In the mid-80s SCHÜTZ started manufacturing honeycomb structures made of aramid paper. This high-tech composite material, CORMASTER, was specially developed at our main site in Selters and is now used worldwide in the aerospace industry, in vehicle and boat building. The product portfolio includes honeycomb and sandwich panels, milled and heat-formed parts and engineered panels.



© AIRBUS S.A.S. 2014 | photo by S. RAMADIER

The expertise we have built over decades in lightweight construction and our technical equipment and skills have been systematically developed and applied to the new WINDPOWER corporate division. Our services in this area include research and development, the construction of master models, moulds and prototypes, as well as the production of rotor blades up to 75 metres in length.

The two areas of the COMPOSITES divisions have highly specialised expertise in composite materials, particularly in glass fibre reinforced plastics, and thus complement each other perfectly. The WINDPOWER division also designs and builds sophisticated autoclave tools, which are also used to make CORMASTER. This specific field benefits from the company's long-standing expertise in model and mould making.

Customers also profit from the synergy between the two areas, which are always boosted by internal development projects. The teams cooperate on a variety of different projects, thus enabling not only a high level of vertical integration, flexibility and delivery reliability, speed, but also innovations such as the development of our own heating control system for mould making with a touchscreen and an intuitive user interface.

VISIT US AT AIRCRAFT INTERIORS EXPO!

After the successful premiere last year, we will again be showcasing our CORMASTER unit at Aircraft Interiors Expo. The world's largest trade fair for aircraft cabin interiors will take place from 4 – 6 April 2017 in Hamburg. Come and discover our extensive product range and our expertise in lightweight construction materials at the SCHÜTZ booth 6A40 in hall B6.

We look forward to seeing you!

Aircraft EXPO®
interiors

HAMBURG (D) // 4 – 6 APRIL 2017
HALL B6 // BOOTH 6A40

THE INTERNATIONAL YOUTH TOURNAMENT REMAINS POPULAR



This year, the International Rhineland-Palatinate U17 Indoor Football Masters made tournament history: for the first time ever the final match was contested by two international teams – VC Tokio Verdy from Japan and Lech Posen from Poland. The Polish team, which this year came with a completely new line-up, were victorious and once again took the cup home. There was also another pleasant surprise: EGC Wirges managed to win a match at the “Westerwälder Keramik-Cup”. After losing countless games, the local heroes were on good form in 2017 and beat South Carolina United FC with a score of 2:0.

At the 35th tournament, held on 21 and 22 January, a total of 14 U17 teams competed against each other, including a few Bundesliga teams and international teams from Japan, Poland, England and the United States. The key lesson for the young players was to “pace yourself”: to take home the cup the young players had

to play nine matches over two days on Astroturf at Kreissporthalle Montabaur during the traditional youth indoor football competition.

Ultimately, regardless of victory or defeat, what counts most for the young talents from all over the globe is the sheer enjoy-

ment of the beautiful game. The event unites people from all around the world, a philosophy that is also close to our hearts as a global player. SCHÜTZ has supported the competition for many years, and we are also the sponsor of the youth team of Bayer 04 Leverkusen. “Our” team got off to a difficult start placed against the title



defenders from Poland and lost their first match 1:2.. The Leverkusen team battled their way through the group rounds and finished in 3rd place, equal with Borussia Mönchengladbach. In the quarter final they lost 3:4 against Karlsruher SC, taking 8th place overall. Again, the

goalie of the Leverkusen team was voted the best keeper in the tournament – congratulations to Elias Eichhorn!

outside the hall describing the wide choice of career options at SCHÜTZ.

The event unites people from all around the world, a philosophy that is also close to our hearts as a global player.

As not every young talent will succeed in making a professional career out of football, and there are many potential apprentices in the audience, we also use this attractive sporting event to provide information about alternative careers at SCHÜTZ. A banner over the goal sent out the message "GO SCHÜTZ! An apprenticeship at SCHÜTZ, 1:0 for your career" and drew attention to our company. The young visitors their parents were given brochures at our information stand just

WE'RE LOOKING FORWARD TO 2018!

VARIED IT CAREERS

IT specialist is one of the 20 most popular vocations. With a total 11,010 training contracts in 2015, it ranks in 12th place on the current apprenticeship hit list compiled by the Federal Statistical Office. Numerous young, emerging companies are seeking freshly qualified IT staff, for example in the games industry. SCHÜTZ offers young people the opportunity to learn this profession – either in application development or systems integration. IT-oriented high school seniors who are also interested in complex business processes can start a computer career with us by signing up for a work/study programme.

In Germany, there are over 350 vocations that require an apprenticeship. We offer 20 different technical and commercial apprenticeships, as well as five disciplines in the work/study degree programme. We offer more than 30 apprenticeship positions every year, making us one of the largest training enterprises in northern Rhineland Palatinate. And we help to

train the computer specialists of tomorrow by offering apprenticeships to become an IT specialist for applications development and IT specialists for systems integration, and also the combination of IT and business management in a work/study degree programme.



IT SPECIALISTS WITH A FOCUS ON APPLICATION DEVELOPMENT

IT specialists with a focus on **application development** develop a wide range of software solutions. For example, they design programmes according to customer's specifications, including commercial, mathematical, scientific, technical or multimedia systems. Their main tasks include testing – and, if necessary,

improving – new applications, fixing errors in existing systems, customisation and integrating standard software. In addition, they present new applications in enterprises, including subsequent comprehensive advice and user training. The focus of the apprenticeship at SCHÜTZ is to teach in-depth knowledge

of our SAP systems. We are currently training IT specialists in application development at our main factory in Selters.

IT SPECIALIST FOR SYSTEM INTEGRATION

IT specialists in **system integration** install and configure customer-specific information and communication orders. They do this by connecting hardware and software components to form larger systems. Their responsibilities include resolving errors, upgrading work stations and looking after all computer equipment. Throughout the entire company, their job

is to ensure that the IT systems function smoothly. IT specialists for system integration are responsible for the hardware which the IT specialists for application development needs to be able to work. At SCHÜTZ, IT specialists also provide user support in a wide range of applications, including Microsoft Word and Excel to PowerPoint. Due to the many

different systems, the apprenticeship curriculum provides broad insight into electronic data processing. Currently, we have five system integration apprentices working for us.

Both courses take three years. The minimum requirement is a good secondary school leaving certificate. Our apprentices attend the vocational

college in Montabaur either one or two days a week. The apprentices also attend one lesson of English per week at the company premises to provide

them with a solid grounding in the language for any potential international placements they may take on in our company network.



WORK/STUDY DEGREE PROGRAMME IN BUSINESS INFORMATICS – APPLICATION MANAGEMENT

AN IDEAL COMBINATION OF COMPUTER SCIENCE AND ECONOMICS

In cooperation with Duale Hochschule Baden-Württemberg (DHBW) in Mannheim, Germany, SCHÜTZ also offers a work/study degree programme in **Business Informatics with a specialisation in application management**. At the end of the programme, graduates have in-depth knowledge of general and industry-specific business management and computer science. They analyse business scenarios and define suitable IT concepts for the implementation in information systems. In addition to business insight, they need also in-depth knowledge of major areas of applied informatics. The curriculum also includes programming, computer architecture, IT management, databases and data warehousing, web-oriented technologies and ERP systems. The profile is rounded off by the basics of law and economics.

The basic requirements for the three-year course are good mathematical and scientific skills. The teaching units at the

DHBW alternate every three months with practical units at the main factory in Selters. The tasks are adapted to the respective level of training and include, for example, software development, IT support, project work, network management, and SAP applications.

We also offer a work/study programme with a focus on industry and logistics in business informatics. Additional units here include material management, direct costing and logistics, production planning and control, and supply management. As an alternative, students can take consulting or IT service management in their third year.

There are presently two business informatics students working at SCHÜTZ, who upon graduation will receive a Bachelor of Science degree.



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