

# TEKOpost

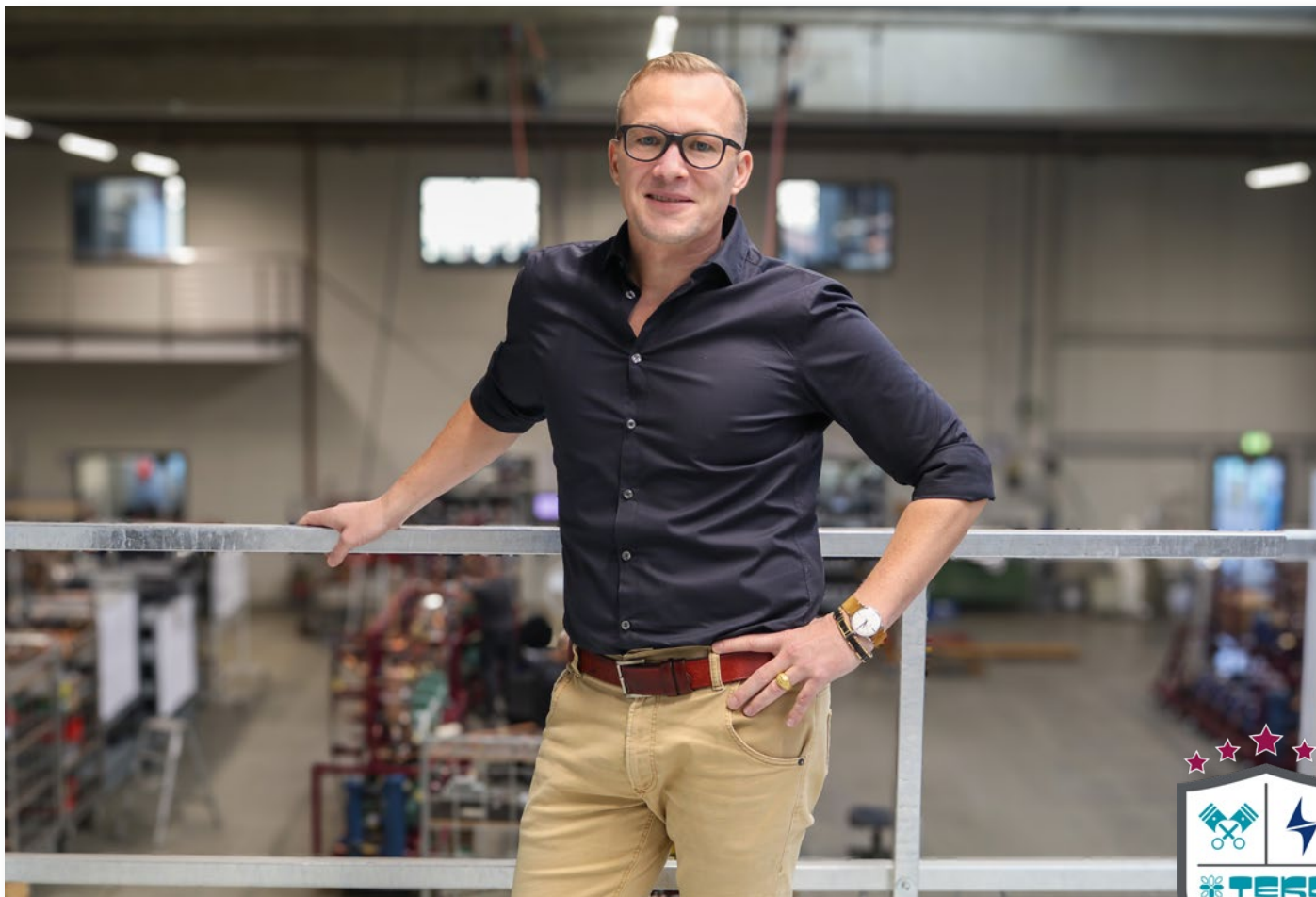
The Refrigeration Magazine

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## 12. Altenstädter Kältetage

Experience technology, share knowledge.  
That was the Kältetage in Altenstadt.



## Dear readers,

this editorial is a special one for me, as my long-standing colleague Edgar Holzhäuser has retired after many dedicated years. I would like to thank him once again for his reliability, commitment, and strong team spirit — values that have shaped TEKÖ over many years.

In this issue, our focus is on the Altenstädter Kältetage, which recently took place and provided exciting encounters and fresh impulses. We also look ahead to the upcoming EuroShop, one of the most important meeting points in our industry.

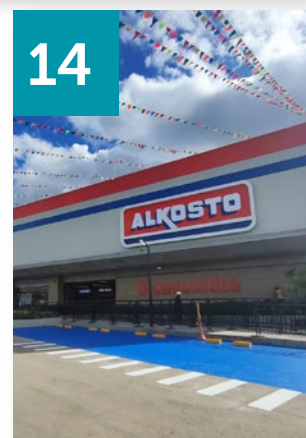
Another highlight is our interview with Wurm Elektronische Systeme, where we discuss topics that are essential for the future of refrigeration technology: data security, digital transparency, and AI-supported solutions. Right now, we can feel how much change is happening in our industry. Energy efficiency, digitalization, and intelligent systems are reshaping customer expectations — while opening up tremendous opportunities.

For us, EuroShop is more than just a trade fair — it is a showcase of our strategic direction: clearly structured system platforms, consistent digital integration, reliable technology, and innovation that delivers tangible benefits. I am very much looking forward to sharing these topics with you and discussing how we can shape refrigeration technology in the years ahead.

Thank you for your interest, your ideas, and your ongoing exchange with us.  
I look forward to welcoming you personally at EuroShop in Düsseldorf.

Andreas Meier





#### Altenstädter Kältetage:

Expert dialogue, fresh impulses and live technology – around 400 guests explored trends and future topics in refrigeration technology.

#### 04 Refrigeration technology in the spotlight at EuroShop: 12

TEKO presents efficient cooling solutions at the leading retail trade fair in Düsseldorf.

#### In conversation:

Karsten Voßberg discusses data security, FRIGODATA Online and XP, the Frida app, and the use of AI in refrigeration technology.

#### 08 CO<sub>2</sub> premiere in Colombia: 14

Alkosto opens South America's first transcritical CO<sub>2</sub> supermarket in Colombia.

#### DACHSER Landsberg logistics center:

Daily cooling of 100 tons of food enabled by ROXSTA Industrial.

#### 10 People & moments at TEKO: 16

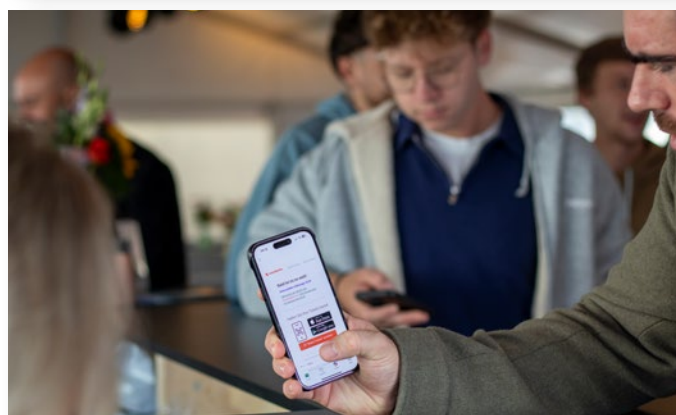
Behind-the-scenes insights from the TEKO team.



## 12. ALTENSTÄDTER KÄLTETAGE: EXCHANGE, IMPULSES & ENCOUNTERS.

On 17 and 18 September, TEKÖ opened its doors for the 12<sup>th</sup> Altenstädter Kältetage. Around 400 guests from industry, retail and trade took the opportunity to learn about current trends and developments in refrigeration technology, gain new insights, and connect in person.





## Talks with perspective

The lecture program demonstrated how diverse the challenges in our industry are. It began with Christoph Brauneis (VDKF), who shed light on the political background of the planned PFAS ban and its impact on refrigeration and air-conditioning technology.

Looking ahead, Jannik Sauber, Martin Prigge (Lunatec) and Andreas Meier (TEKO) shared how digital assistants can support skilled trades. In the panel discussion, representatives from Wurm and TEKO discussed why simplification is key to suc-

cessfully implementing CO<sub>2</sub> systems — especially in the face of skills shortages and growing complexity.

A lively yet insightful finale was provided by Michael Rossié. The renowned communication trainer demonstrated how to communicate more convincingly and authentically with customers, colleagues and partners — all while bringing smiles to the audience again and again.



### Theme islands – close to the dialogue

The continuously accessible theme islands were particularly appreciated. They placed direct exchange and hands-on discussions at the center. Whether efficient oil management, data and IT security, the return of proven compressor control strategies or the visualization of major industrial projects, visitors were able to engage with the experts at any time. The result was a dynamic forum that appealed equally to newcomers and seasoned professionals.



### More than technology

Beyond the technical program, guests used every opportunity to connect – during guided tours through the Smart Factory behind the scenes of production, in the breaks, or at the shared evening dinner. In this relaxed setting, many valuable conversations, fresh impulses, and new contacts emerged.







It is impressive every time to see how actively our guests seek personal exchange. That is what makes the Kältetage so special.

Oliver Rauer  
Head of  
International Sales



The strong participation of employees' families on the second day was remarkable. We are proud to share our working environment not only with customers but also with our loved ones.

Chris Hinkel  
Digitalization & Processes

**Employee celebration:** After two days filled with technical discussions and expert exchange, 18 September was all about family. During the TEKO employee celebration, we opened our doors to relatives and friends — a day to connect, discover and celebrate.



# SECURITY MEETS INTELLIGENCE: WURM & TEKO IN CONVERSATION ABOUT THE FUTURE OF REFRIGERATION DATA.



Karsten Voßberg

Whether in supermarkets, cold storage facilities, or logistics centers – refrigeration systems are the backbone of the supply chain. But alongside reliable technology, another topic is becoming increasingly important: the secure and efficient management of system data. For many years, Wurm Elektronische Systeme from Remscheid has specialized in digital solutions for control, monitoring, and optimization. In this conversation, Mr. Voßberg explains how Wurm defines data security, why software platforms such as FRIGODATA Online and FRIGODATA XP are shaping the industry, and how mobile apps and AI-based functions already add value today.

*How does Wurm handle the individual security requirements and criteria of operators?*

Imagine a supermarket chain with several branches. Each system must be accessible, but access must not happen uncontrollably. Early on, we ensured that each gateway received its own password — no standard solutions, no risk from commonly known codes. When an operator changes their service partner, we take care of the secure handover and ensure clear structures. Already in 2006, we decided never to connect gateways openly to the internet. Instead, we use VPN tunnels. This ensures that only authorized partners have access. For operators, this means a secure system that flexibly adapts to changing requirements.

## Safe. Smart. Efficient.



### FRIGODATA Online The digital control center

- » Security & availability: Central monitoring of all systems with immediate alarm notifications.
- » Cost transparency: Energy and operational data are captured in real time — a solid basis for boosting efficiency.
- » Flexibility: Third-party systems can be integrated, giving operators a unified platform for their entire operation.



### FRIGODATA XP The analysis tool

- » Sustainability & compliance: Supports energy management in accordance with ISO 50001 — an important requirement for certifications.
- » In-depth analytics: Historical data, trends, and reports provide the foundation for informed decision-making.
- » Cost efficiency: Operators identify savings potential and can evaluate improvement measures precisely.



### Frida App Mobile efficiency

- » Time savings: Technicians access system data on site via smartphone — without a laptop or complex login processes.
- » Fast response: Issues can be checked and resolved instantly, minimizing downtime.
- » Seamlessly integrated: The app is part of the existing infrastructure and automatically applies all user permissions.



*What features does Wurm offer to meet security standards?*

Our systems are designed so that operators always retain full control over access. Via a Security Center, they can manage users themselves, assign or revoke permissions, and keep a clear overview. All changes are logged, so it's always traceable who accessed which data. For operators with only a few sites, we offer a router-based solution that also uses VPN.

Again, there's no open internet connection, but a closed and encrypted data pathway. The routers used must meet Wurm's strict security standards. This results in a consistently protected system that guarantees a long-term level of trust and security.

*How do you ensure data availability and protection against failures?*

We rely on high-availability infrastructure. Our servers run exclusively in Germany — in three independent data centers. We deliberately avoid cloud services to ensure the highest level of protection. If one data center were to fail, for example due to fire or technical issues, another takes over automatically — without users noticing any interruption. All systems are equipped with uninterruptible power supplies, backup generators, and redundant internet connections. In addition, our in-house team monitors everything around the clock, allowing us to react immediately to any irregularities. This way, we guarantee that operators always have reliable and uninterrupted access to their data.

*Why does Wurm use unique passwords for each project?*

The concept is simple: we want to clearly separate responsibilities. Each service provider works with their own login credentials that are not valid for other projects. This prevents misuse, increases transparency, and makes access fully traceable. For operators, this means more security — and for service partners, a clean separation of their work environments.

*How do you integrate third-party systems with FRIGODATA Online?*

A great example is the combination of refrigeration and building systems. Through FRIGODATA

Online, external systems such as lighting or energy management can be integrated directly. This gives operators one central platform with all data: temperature, energy consumption, alarms — regardless of whether they come from Wurm or other systems. For retailers, this means that energy optimization is no longer viewed in isolation but in connection with all energy consumers. That brings transparency and supports better decision-making.

*Why was the Frida App developed?*

We wanted to make life easier for technicians. Previously, accessing a system often involved effort: connecting a laptop, obtaining passwords, setting up access points. With the Frida App, a smartphone is enough. Technicians can quickly get an overview, retrieve or adjust parameters, and the app automatically respects all access permissions. Because it's closely linked with our server infrastructure, access is not only faster but also safer. In practice, that means less time spent and more flexibility.

*Is Wurm working with Artificial Intelligence? How is AI being used?*

Yes, very intensively. Thanks to our data base, built up over more than 20 years, we can use AI in meaningful ways. We have a dedicated team of five people working exclusively on this topic. AI methods help us identify patterns in data and optimize processes. For example, we can predict condenser contamination, detect refrigerant losses more quickly, or automatically recognize operational anomalies before they cause malfunctions. Our goal is clear: greater efficiency, fewer failures, and added value for operators who want to run their systems reliably and sustainably.

# CO<sub>2</sub> REFRIGERATION FOR DACHSER: ROXSTA INDUSTRIAL RACK SYSTEMS FOR A NEW LOGISTICS CENTER.



Kreutzträger Kältetechnik has been a trusted partner for commercial and industrial refrigeration for around 65 years.

At nine locations across northern, western, eastern and southern Germany, around 200 specialists handle the planning, construction and servicing of modern CO<sub>2</sub> and NH<sub>3</sub> systems.

The company focuses on sustainable, energy-efficient solutions for logistics, industry and retail.



To ensure the daily cooling of around 100 tons of food, absolute operational reliability is essential. In DACHSER's new logistics center in Landsberg, the focus was therefore clearly on a future-proof, energy-efficient and climate-friendly refrigeration solution. Together with our partner Kreutzträger Kältetechnik, TEKO supplied ROXSTA Industrial CO<sub>2</sub> rack systems that ensure reliable and sustainable temperature control of the new storage areas.

#### The result:

Stable product quality for dairy and chocolate thanks to maximum operational reliability, high energy efficiency and low operating costs.

#### PROJECT HIGHLIGHTS

- » End customer: DACHSER SE
- » Location: Landsberg
- » Implementation: Kreutzträger Kältetechnik GmbH
- » Systems: 3 × ROXSTA Industrial CO<sub>2</sub> rack systems, each with 7 compressors
- » Total capacity: 1,500 kW
- » Storage area: approx. 11,000 m<sup>2</sup> across three temperature zones (+2...+16 °C)
- » Products: Dairy & chocolate
- » Throughput: approx. 100 tons per day
- » Special features: Heat recovery 45 kW & more than 1 km of piping network



### Efficiency & innovations

The installed systems impress with state-of-the-art technology: ECO compressors enable energy-optimized part-load operation, EVALIFT technology increases evaporation performance by up to +6 K, and adiabatic gas cooling optimizes performance on hot summer days. In addition, the TECO<sub>2</sub>nditioner ensures constant suction gas temperatures, increasing overall system reliability.

### Sustainable heat and defrost concepts

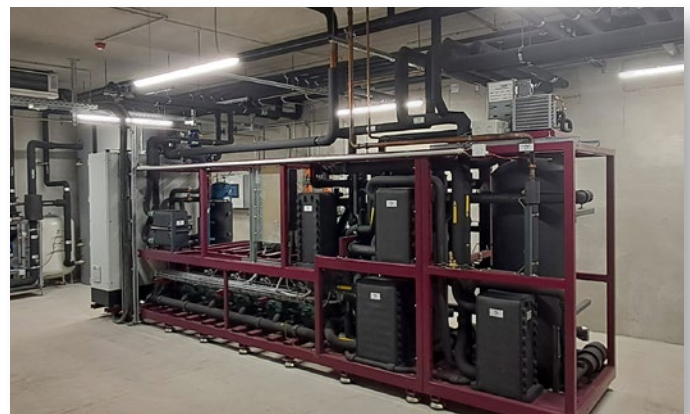
Defrosting of the evaporators is efficiently controlled via a brine circuit with buffer storage. At the same time, waste heat from the systems is used to heat office and staff areas. Propylene glycol is used as the medium — safe, climate-friendly and high-performance.

### Digital control & transparency

Control is based on customer-specific Wurm systems tailored to the process requirements of Kreutzträger and DACHSER. A web-based visualization with real-time data analysis, trend monitoring and clearly structured dashboards ensures maximum transparency.

### Conclusion

The project in Landsberg demonstrates how modern CO<sub>2</sub> technology can be implemented reliably on a large scale. Through close cooperation between DACHSER, Kreutzträger, Wurm and TEKÖ, a system was created that is tailored to the specific requirements of a high-turnover logistics site. The installed ROXSTA Industrial systems ensure stable temperatures across all storage areas, enable efficient heat recovery, and guarantee energy-optimized operation throughout the year.



## TEKO AT EUROSHOP: THINK DIGITAL, ACT LOCAL.



(Photo: Messe Düsseldorf / Constanze Tillmann, Mintarder Weg 34, 40470 Düsseldorf, Germany, booth 2023)

From 22 to 26 February 2026, Düsseldorf will become the hub of the international retail and technology sector. With more than 1,800 exhibitors from over 50 countries, EuroShop 2026 is the world's leading platform for innovation, energy and efficiency in retail. For TEKO, the Refrigeration & Energy Management area is of particular interest – this is where state-of-the-art refrigeration, HVAC and building technologies come together and point to where the industry is heading.

**TEKO with its own booth for the first time**  
EuroShop 2026 marks an important milestone for TEKO:

for the first time, we will be presenting ourselves with our own booth – a clear statement of growth, technological capability and tighter integration of our system solutions.

Our location in Hall 14, Booth A36, directly opposite Bitzer and our technology partner Wurm Elektronische Systeme, provides ideal conditions for a joint presence.

Visitors will experience the close interaction of CO<sub>2</sub> technology, intelligent control systems and energy management – an interplay that brings our partnership and system understanding to life.

### WHAT VISITORS CAN EXPECT

- » **Experience system solutions live:** CO<sub>2</sub> technology, control and energy management perfectly aligned.
- » **Fresh impulses:** Digitalization, AI and data-driven services combined with proven CO<sub>2</sub> expertise.
- » **Close interaction:** Direct collaboration with Wurm thanks to the adjoining booth location.
- » **Responsible architecture:** Materials and design that make TEKO's sustainability standards visible.
- » **Experts on site:** Technical discussions with specialists from Engineering, Product Management and Digitalization.



# THINK DIGITAL, ACT LOCAL FOR OPERATORS WHO EXPECT MORE THAN TECHNOLOGY



”

Together with Wurm, we will show at EuroShop how the future is created: efficient, digital and practical.

I look forward to the dialogue.

Heiko Sittinger | Head of Business Unit Wurm TEKÖ

## **Technology. Knowledge. Exchange.** **THINK DIGITAL, ACT LOCAL.**

Under the motto

THINK DIGITAL, ACT LOCAL, TEKÖ will demonstrate at EuroShop how modern CO<sub>2</sub> technology, intelligent control systems and energy-management concepts can be combined into practical, integrated solutions. Together with Wurm, the result is a consistent approach: efficient plant operation, digital transparency and data-driven services from a single source.

The spotlight is on efficiency, digitalization and resource savings — topics that make the progress of refrigeration technology tangible and open space for new ideas, interconnected system solutions and inspiring exchange.





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We are witnessing the next major technological leap in South America.

Local engineering is impressive. Together, we are accelerating the transition to modern, sustainable CO<sub>2</sub> systems at remarkable speed.

Andreas Meier | CEO TEKO

## ALKOSTO OPENS ITS FIRST CO<sub>2</sub> STORE: TEKO AMÉRICAS & WESTON SHAPE THE TRANSFORMATION OF REFRIGERATION TECHNOLOGY.

In Mosquera near Bogotá, the Colombian retail chain Alkosto has opened its first transcritical CO<sub>2</sub> store — a key milestone for sustainable refrigeration technology in South America. The central ROXSTAsmart booster system comes from TEKO Américas and was implemented by the Colombian refrigeration contractor Weston, who managed the project from planning through commissioning.



### Technology for large floor areas

In addition to the central CO<sub>2</sub> booster system, Weston installed 30 plug-and-play R290 (propane) island units for the fresh-food departments. The new Alkosto hypermarket covers approximately 31,600 m<sup>2</sup> of sales, storage, and frozen-food areas — designed for efficiency, performance, and reliability.

### Strong partnership – clear outlook

The partnership between TEKO and Weston has been in place since 2019 and was strategically strengthened with the founding of TEKO Américas in 2022. For Andreas Meier, Bogotá has held a special connection since his professional stay there in 2013.

Today, we manufacture CO<sub>2</sub> systems for South America and UL-certified control cabinets for our sister company Vitalis in Canada — products that go directly into the North American market. It's a strong example of regional expertise with global reach.

### Government incentives

The Colombian government actively supports technologies with low global warming potential. Systems with a GWP below 100 benefit from attractive tax incentives:

- » Elimination of the 19% value-added tax
- » 50% income tax deduction on equipment value
- » Accelerated depreciation and additional energy-efficiency bonuses

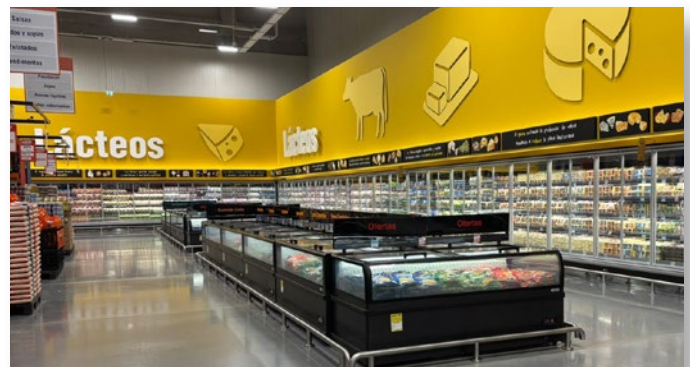
### TECHNICAL DATA

- » Type: ROXSTAsmart RXSM 043(B) R4
- » Refrigerant: R744 (CO<sub>2</sub>)
- » Cooling capacity: MT: 190 kW / LT: 29 kW
- » Gas cooler capacity: 349 kW
- » Evaporation temperature: -8 °C (MT) / -30 °C (LT)
- » Gas cooler outlet temperature: 31 °C
- » Ambient temperature: 24 °C
- » High-pressure levels: 75 bar (MT) / 28 bar (LT)
- » COP: 2.23

### TEKO AMÉRICAS



- » Location: Bogotá
- » Focus: Natural refrigerant technology for retail & logistics
- » Partners: TEKO (DE) + Weston (CO)
- » Mission: Technology transfer, regional manufacturing, and growth in LATAM



# GROWING TOGETHER: OUR NEW COLLEAGUES AT TEKO.



THIS IS ME

LOYAL. EMPATHETIC. RELIABLE. DISCREET.  
ALWAYS WITH AN OPEN DOOR.

## Judith Ziemus Head of Human Resources

I came to TEKO through a job posting on Xing – and after the factory tour during my second interview, I was immediately fascinated by the products.

What matters most to me: employees are the heart of a company, which is why HR has been part of my professional life from the very beginning. After working in the chemical industry and for a major automotive supplier, I deliberately chose to return from a corporation with 170,000 employees to a medium-sized company. My HR expertise covers the full range from A to Z, and at TEKO I aim to drive digitalization and establish new HR processes.

In my private life, I enjoy travelling and wellness.



THIS IS ME

TEAM PLAYER. STRUCTURED. CURIOUS.  
RELIABLE. VERSATILE.

## Maurice Perugorria Technical Support Heating & Cooling

TEKO has been familiar to me for several years, and I repeatedly came into contact with the company through my work — which made me all the more pleased to finally join the team.

After completing my apprenticeship as a refrigeration mechatronics technician, I gained valuable service experience and later earned my degree as a certified technician for refrigeration and air-conditioning technology. As a project manager in commercial refrigeration, I gained deep insights into the systems used in food retail. At TEKO, I look forward to helping shape the COOLSHIFT product line and contributing my technical expertise.

In my free time, I enjoy sports, playing the drums and sailing.



THIS IS ME

ZUVERLÄSSIG. RUHIG. ENGAGIERT.  
LÖSUNGSORIENTIERT. STRUKTURIERT.

## Khalid Zarrouk Technical Support France

Choosing TEKO meant contributing my experience to a leading company in CO<sub>2</sub> refrigeration technology.

In previous years, I worked independently, specializing in the commissioning and service of transcritical CO<sub>2</sub> systems. Collaborating with various manufacturers provided me with valuable practical experience, which I now use to support our customers and partners. Even under pressure, I remain calm and focus on fast, hands-on solutions. Clear communication and a structured approach are essential to me. My goal is to strengthen our presence in France, build reliable partnerships and support successful CO<sub>2</sub> projects.

Outside of work, I enjoy travelling, sports, exploring new technologies and spending time with my family.



# READY FOR REFRIGERATION: COOL CAREER START.



THIS IS ME

SOCIABLE. METICULOUS. CREATIVE.  
GOAL-ORIENTED. HUMOROUS.

## **Mia Kamm** **Apprentice**

I live in Waldsiedlung and have known TEKO from the neighborhood for a long time. After spending several school years in Croatia, where I attended a German international school, I completed my secondary education in Germany and then applied to TEKO for an apprenticeship.

I enjoy working carefully and with attention to detail, and I am creative, flexible and well-organized. Open to new experiences and eager to learn, I want to successfully complete my apprenticeship and discover which area suits me best.

In my free time, I enjoy spending time with friends and family, doing sports and trying out new things.



THIS IS ME

CURIOUS. COLLABORATIVE. DRIVEN.  
COMMUNICATIVE. RELIABLE.

## **Pascal Leon Levien** **Apprentice**

I first came into contact with TEKO through the Limeschule open day. At the beginning, refrigeration technology meant very little to me, but I've always been fascinated by working with metal — especially the idea of creating something tangible with your own hands. When I heard that an apprenticeship position was still available, I applied immediately and am grateful to have the opportunity to learn here.

In just the first few months, I've already learned a lot — for example, how to properly join metal without burning your fingers in the process.

What I enjoy most is learning as part of a team: actively working instead of just sitting and listening. The work with my colleagues is fun and helps me arrive at the workplace (mostly ☺) at six in the morning in a good mood.

# FAREWELL AFTER 39 YEARS: THANK YOU, EDGAR HOLZHÄUSER.



For almost four decades, Edgar Holzhäuser shaped TEKO with passion, down-to-earth dedication, and strategic foresight. His goal was always to create something lasting — together.

After an impressive 39 years at TEKO, including many years on the management board, Edgar Holzhäuser will retire on October 1, 2025.

During this time, he played a decisive role in the company's development, accompanied TEKO's growth with great commitment, and contributed significantly to its success through his vision and leadership. He was also actively involved in initiatives such as the TEKO Forest, sponsorship activities for the EC Bad Nauheim ice hockey club, and many other projects that strengthened team spirit and the sense of community within the company.

**We extend our sincere thanks for his many years of work, his loyalty, and his invaluable contribution to nearly four decades of TEKO's history. We wish him all the best, good health, and many fulfilling years ahead.**

Management responsibility now lies fully with Andreas Meier, who has shaped TEKO for many years. He will continue to lead the company with clear direction, strong momentum, and a commitment to consistently advancing technology, efficiency, and customer value.





# FOOSBALL FOR THE FUTURE: OUR TRAINEE SUPERHEROES.



In September, TEKO took part in the trainee fair "Karriere Kick" in Friedberg — a career event that rethinks vocational orientation in a playful and interactive way. Instead of traditional exhibition booths, the focus here is on table football: students and company representatives meet at the foosball table, where conversations about training opportunities and future career paths develop naturally and without pressure.

Representing TEKO were our apprentices Oskar and Dominik — committed, open, and full of enthusiasm. Between exciting matches and engaging conversations, they presented TEKO's apprenticeship programs and generated more than 100 new contacts. A complete success and a strong signal for supporting young talent.

The sporting performance was equally impressive: In the tournament featuring representatives from 21 companies, Oskar and Dominik achieved an outstanding second place — a clear demonstration of their teamwork and dedication.

TEKO extends its sincere thanks for their commitment and enthusiasm.



## OUR ANNIVERSARIES 2025: WE SAY THANK YOU.

This year, once again, we honor colleagues who have shaped TEKO over many years with their experience, commitment, and technical expertise.

Our sincere thanks go to all anniversary celebrants — here's to many more years together!

**10 years at TEKO:** Michael Anzinger, Sören Franke, Alexander Geier, Torsten Klinger, Andreas Meier, Doris Obert-Baier und Felix Schulter.

**25 years at TEKO:** Stefan Barth, Claus Ladner, Torsten Nürnberger, Stefan Roos und Jürgen Schmidt.





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