

SUPERMARKETSOLUTIONS



SUPERMARKET REQUIREMENTS

TEKO SOLUTIONS

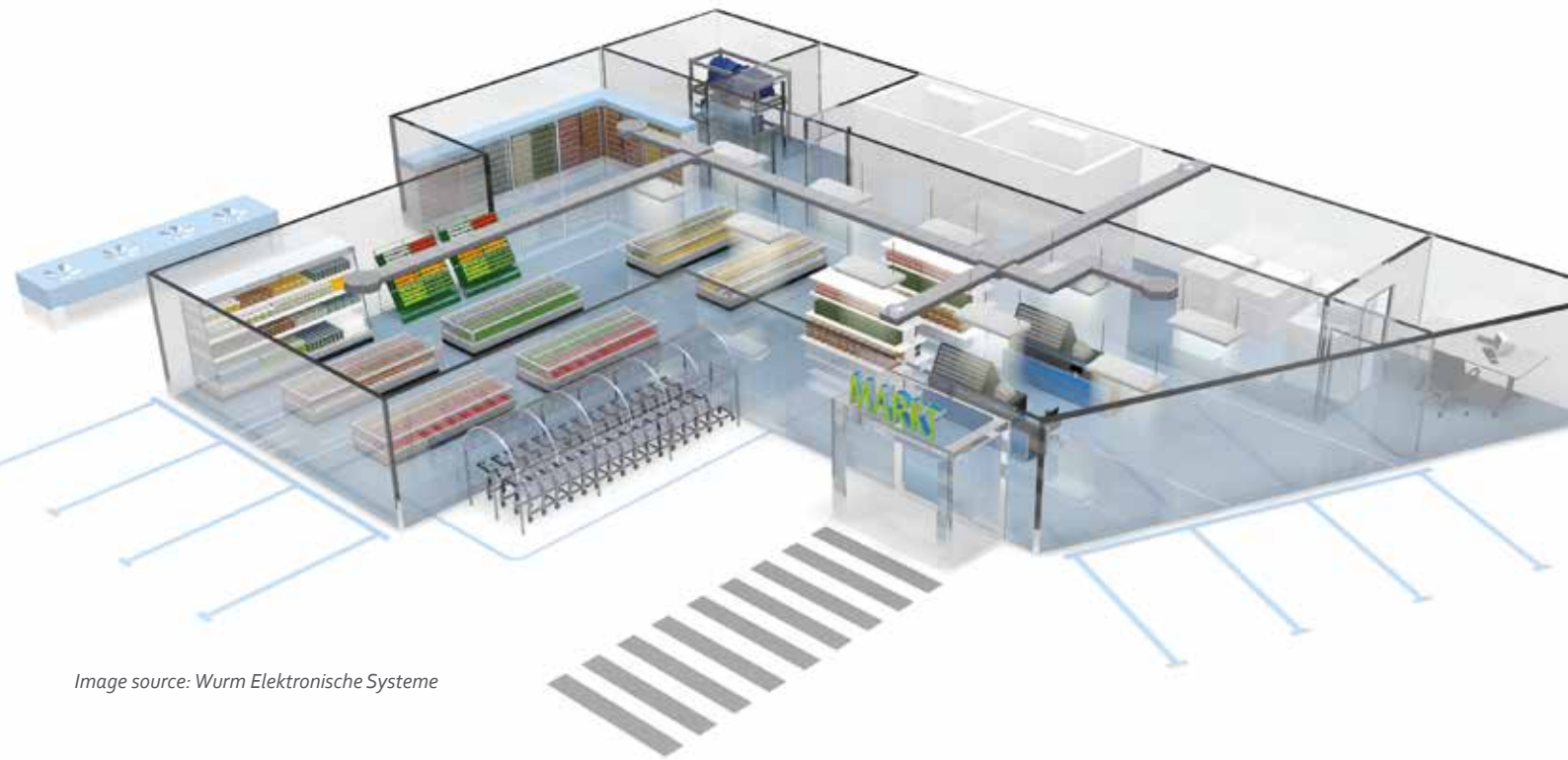


Image source: Wurm Elektronische Systeme

TEKO systems for active environmental protection.

The GWP is the key indicator for the global warming due to refrigerant leakage. It is an important parameter for determining the environmental friendliness of the refrigeration systems used.

The effect of commercially available F-gases on the global warming lies in the branch average in four-digit height.

TEKO offers systems for active environmental protection operating with natural refrigerants (CO₂ with a GWP of 1 and propane with a GWP of 3).

The systems produced by TEKO are absolutely future-proof. In terms of environmental policy, they can surely be used even after 2030 and are not affected by the F-Gas regulation.

Of course, at TEKO, you also get systems using other refrigerants, such as LOW-GWP refrigerants.



Requirements of a full range trader: Of 800 to 2.500 qm.

Stress-free operation with always fresh and chilled goods.

Commercial refrigeration.

- Refrigerated furniture for medium refrigeration cooling (glazed or unglazed)
- Low temperature refrigerated islands (MT + LT)
- Semi high cooling baskets
- Fruit and vegetables / containers
- Cooling units / MT cabinets
- Switchable cooling islands / cooling furnitures (2. setpoint)
- LT cabinets / MT combi set
- Cold rooms (1-2 LT and 2-5 MT)

Temperature in the Market.

- Heating
- Air conditioning

Installation of the machinery.

- Indoor or outdoor installation
- Sound insulation for noise-sensitive areas

Compliance with the operator obligations.

- HACCP – Live monitoring of the room temperature (temperatures of -22 to +6 °C MT/LT)
- LT Quick frozen Foodstuffs Regulations EC 37/2005
- Fault analysis – Transparent evaluation
- Energy management (DIN ISO 50001)

Low Total Cost of Ownership.

Solution from TEKO: Tailored to the needs of full range trader.

High-quality plant technology to ensure the quality of the goods – “Freshness First”.

Future-proof refrigeration technology.

- Standardized machine series
- Flexibly adaptable to different market concepts
- Specialist for natural refrigerants – alternative solutions with LOW-GWP refrigerants
- Long lifespan
- Compliance with legal requirements

The correct temperatures in the market.

Anytime proper temperature conditions in the refrigerated goods as well as temperature safety at the workplace (sales and social rooms)

Heating.

Support of the heating system through the waste heat from the refrigeration process.

Air conditioning.

Air conditioning control and night rinsing via the building management.

Installation of machinery.

The TEKO solutions are available for installation for machinery room and outdoors. Soundproofing variants are also available.

Compliance with the required temperatures (HACCP).

- Integrated Wurm control system
- Platform- and location-independent processing, evaluation and qualification of large data sets
- Redundant backup via Wurm server

Energy-efficient, electricity-saving systems.

- Low maintenance and operating costs
- Operational safety – No system outage / no goods damage

CO2 – NATURALLY FUTURE-PROOF

ROXSTA CO2/R 744.

Optimal solution for supermarkets / cash&carry / hypermarkets

ROXSTAsmart.

- Standardized, compact, easy to use
- Simple and understandable in application
- Future-oriented solution at attractive prices

Capacities.

- Medium temperature cooling up to 160 kW
- Low temperature cooling up to 27 kW
- Transcritical version without low temperature cooling also available

ROXSTA2.0.

- Indoor or outdoor installation
- Modular installation of machine and medium pressure station
- Medium refrigeration, lowrefrigeration
- WP- and air conditioning control
- Parallel compression
- TEKO-construction EVALIFT & TEKOJET

Capacities (max).

- Medium temperature cooling up to 350 kW
- Low temperature cooling up to 160 kW

Compatible gas coolers complete the system as a whole.



ROXSTA2.0



ROXSTAsmart



Gas cooler WHTELINE



Series manufacturing at TEKO.

- More than 2,000 CO₂-units successfully running in the field
- Years of experience with transcritical CO₂-units
- System solutions for every scope of application
- High level of hermeticity
- Fast delivery
- Unit engineering with TÜV-approval

CO₂-condensing units from SANDEN.

Unique in the market. Ideal as an add-on.

The plug-in units of the SANDEN brand are now available in Germany exclusively from TEKO. The air-cooled condenser sets with speed-controlled scroll compressors are available in three sizes

CDU-S.

2,8...4,1 kW (t_0 -10...+5 °C / t_{LE} 32 °C)
1 refrigeration circuit for medium refrigeration

CDU-M.

2...5,4 kW (t_0 -35...0 °C / t_{LE} 32 °C)
1 refrigeration circuit for medium or low refrigeration

CDU-L.

3,6...9,7 kW (t_0 -35...+5 °C / t_{LE} 32 °C)
2 seperated refrigeration circuits for medium refrigeration and/or deep freezing

- Compact design
- Short pipelines
- Short delivery time





Due to the safety requirements, propane is usually used for outdoor installations. Systems of this kind are frequently used in areas of the process industry or in the air conditioning of buildings. The RANSTA series offers you a TÜV-tested safety concept for carefree use.

RANSTA. Propane chillers.

Sophisticated. Durable. Safe.

RANSTA is the TEKO solution for outdoor installation with the green refrigerant propane.

- Future-proof.
- TÜV-tested safety concept.
- Eligible for BAFA support

The RANSTA range is available as a water or brine chiller for the areas of air conditioning, process cooling and commercial refrigeration.

- Plug & Play. Outdoor installation.
- Standard or reduced noise version.
- Internal or external pump system.
- Heat recovery / EC ventilators / Wurm control electronics.
- Straightforward installation & maintenance

Capacities.

Air-conditioning. 8...970 kW (12/7 °C)

Process cooling. 10...1.180 kW (20/15 °C)

Medium temperature (cooling). 7...149 kW (-4/-8 °C)

Low temperature (cooling). 3,5...64 kW (-23/-25 °C)

Rack unit. TEKOPACK.

Standardised. High quality. Hermetically.

The **TEKOPACK-Series** consist of several compressors, for graduated adaption to your capacity requirement. We have a high vertical range of manufacture with different compressors and manufacturers. According to your requirements we supply rack units with a wide selection of optional components, electrically pre wired or with switch cabinet. We also offer the ideal control system adapted to each individual application.

Capacities.

- Rack units TEKOPACK: 2...1.500 kW
- Outdoor units: 4...500 kW
- System units: 1...280 kW
- For all current F-gas refrigerants (R 134a / R 450 A / R 513A / R 407F / R 449A / R 448A)

In the weather protecting housing or as a condensing unit.

Save the machine space for your **TEKOPACK-Series** with a housing for external installation. Also available as a noise-reduced noise protection variant or as a combined machinery / condensing unit technology in a space-saving housing.



Close association from more than 30 years.

Since 1985 we have been the exclusive distribution partner for Wurm Systeme. Since this, Wurm control solutions have been integrated into the TEKO systems and concepts. Renowned supermarket chains and companies in the food industry often rely on Wurm technologies in conjunction with our refrigerating and heating solutions. The corresponding switchgear comes from the subsidiary Wurm-Schaltanlagenbau.



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