

# TEKOSERIES



# F-GAS DEMAND-BASED

## Rack unit. TEKOPACK.

### Standardised. High quality. Hermetically.

The **TEKOPACK-Series** consist of several compressors, for graduated adaption to your capacity requirement. The compressors work in parallel connection on a common refrigeration circuit. It goes without saying that we have a high vertical range of manufacture with fully-hermetic, scroll and digital scroll, semi-hermetic and screw compressors from different 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.

( $t_o$  -10 °C /  $t_c$  45 °C / R 134a)

- Hermetic compressors: 2...60 kW (Embraco, Copeland)
- Semi-hermetic compressors: 1...280 kW (Fracold, Bitzer)
- Screw compressors: 26...1.004 kW (Bitzer)

### Range of application.

Commercial kitchens, canteens, butcheries, bakeries, cutting plants, pharmaceutical industry, food retail trade, air-conditioning, food production, warehouses, beverage industry and other areas.

## Rack unit. TEKOPACK<sub>duo plus</sub>.

### Eco-friendly. Conforms to BAFA. Fast installation.

You receive the future-proof series including an installed and wired switch cabinet – equipped with the ideally suited regulating system FRIGOENTRY. **TEKOPACK<sub>duo plus</sub>** conforms to BAFA due to the optimum capacity control, which brings optimum performance and efficiency. A stable suction pressure and reduced switching cycles provide high reliability. The positioning of the machine is variable and provides a fast installation

### Capacities.

6...22 kW ( $t_o$  -10 °C /  $t_c$  45 °C / R 134a)

### Range of application.

Filling station shops, food shops, bakeries, butcheries, restaurants and many more. The units suit also very well as retrofit systems.







### Single-compressor unit. **TEKOSET<sub>flexi</sub>**.

#### Fast. Modular. Flexible.

The **TEKOSET<sub>flexi</sub>** offers a wide choice of options, all to be optimally combined to suit your needs. Choose the best unit for your application, from a compressor-receiver unit to an air- or water-cooled condensing unit, with Frascold-, Bitzer- or L'Unité-compressor. Multiple installation variants with easily separable rails between compressor and condenser section increase the flexibility even further.

#### Capacities.

- Air-cooled: 4...47 kW (to -10 °C / tLE 32 °C / R 134a)
- Water-cooled: 1...49 kW (to -10 °C / tC 45 °C / R 134a)

Fully hermetic condensing units from Embraco are also obtainable through **TEKO** for low power requirements.

#### Range of applications.

Butcheries, bakeries, motorway restaurants, hospitals, grocery stores, ice-cream shops, restaurants, hotels, city halls and many other areas.



*TEKOSET flexi. Bitzer.*



*TEKOSET flexi. Frascold.*

## Do you want to rely on high quality refrigerating machine units?

With us you will find a large performance range of machine units for all current (R 134a, R 407F, R 404A, ...) and new (R 449A, R 448A, R 450A and R 513A) F-gas refrigerants. Whether small or large, hermetic, semi-hermetic or screw compressors, with or without switch cabinet – you receive the **TEKO** multi-compressor units according to your requirement with 2 to 6 compressors (2 to 1,000 kW).

Capacities up to 570 kW

# CO<sub>2</sub> – NATURAL FUTURE-PROOF

## More environmental protection against climate change.

Whether carbon dioxide, ammonia or propane – with us you will find the right technology for using natural refrigerants. An example is ROXSTA – our answer to CO<sub>2</sub>. More than 1,100 TEKO CO<sub>2</sub> systems are already installed. Convince yourself of our high-quality, reliable technology..

### Future-proof, standardized series.

We have been working intensively with the natural refrigerant CO<sub>2</sub> since 2004. Our research and development team has determined the prerequisites for 100% reliable systems by means of long-term and stress tests with various control methods under common and extreme operating conditions. You can be sure that the components and the entire system are tested and functional.

We have carried out field tests in various market concepts and analysed the results of operator evaluations in collaboration with our contractor partners. Our CO<sub>2</sub> series ROXSTA was developed on the basis of this extensive know-how and has successfully established itself on the market for the cooling of foodstuffs. This is confirmed by over 2.900 proven CO<sub>2</sub> systems (status 01.10.2018) and satisfied customers.



ROXSTA2.0



## ROXSTA. CO<sub>2</sub> serial solution.

### Efficient. Future-proof. Adaptable.

The **ROXSTA** concept consists of three types of machines (MT-LT-booster) for different areas of use with R 744. From retail discounter / supermarket applications to cold storage or industrial processes, smaller or bigger capacity ranges, easy and clear to handle or the full package for the refrigeration of products, heat recovery, heat pump operation and air conditioning – **ROXSTA** offers the right solution for every requirement.

### ROXSTAir. Up to 20 kW

- Machine & condenser technology combined in a space-saving weather-proof housing
- Low installation effort – Plug & Play
- No machine room required

### ROXSTAcube mini. Up to 40 kW

- Solution for the extension or retrofitting of smaller MT and LT applications
- Flexible installation
- No machine room required

### ROXSTAcube. Up to 74 kW

- Small capacities – Series applications
- Different sound insulation variants
- Indoor and outdoor installation

### ROXSTAsmart. Up to 112 kW

- Standardised & compact
- Straightforward and easy to use
- Forward looking solution with attractive prices

### ROXSTA2.o. Up to 350 kW

- Flexibly selectable options
- Indoor and outdoor installation
- MT, LT, HR & AC function, parallel compression
- TEKO developments EVALIFT & TEKOJET

### ROXSTAindustrial. Up to 570 kW

- Large capacities – Industrial applications
- Made-to-measure technology
- MT, LT, HR & AC function, parallel compression
- Ejector technology



ROXSTAcube  
Series manufacturing



ROXSTAir

Capacities at to MT -5 °C / to LT -30 °C / t<sub>GC</sub> 36 °C

# PROPANE. NH<sub>3</sub> FUTURE-PROOF

Tested by TÜV



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.

Capacities up to 854 kW

## RANSTA. Propane chiller.

### 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. 5...646 kW (12/7 °C)

Process cooling. 10...854 kW (20/15 °C)

Medium temperature. 7...158 kW (-4/-8 °C)





### AMMON. NH<sub>3</sub> machine unit.

Environmentally friendly. Reliable. Wide performance range.

Our **AMMON** series is based on long-term experience in utilising ammonia as refrigerant. Moreover, it has a maintenance-friendly design and a modular structure.

- Air conditioning, medium & low temperature
- 1 to 4 open screw compressors
- 1 to 5 open piston compressors
- Compact, maintenance-friendly design
- Sophisticated design – Reduced space requirement & shorter assembly time on site
- High-quality, optimally matched components – Reliability & long service life

#### Capacities.

20 kW...3,665 kW (to -10 °C / t<sub>c</sub> 35 °C)

Ammonia is primarily used in the food industry. Cold storage units, breweries and abattoirs make use of this natural refrigerant. Ammonia is a low-cost refrigerant with long-term availability.

Capacities up to 3,650 kW

# OUTDOOR-UNITS WEATHERPROOF

## OUTDOOR-Units.

The **OUTDOOR**-Units for installation outside combine machine technique and condenser technology in a space-saving housing – Plug & Play. So the TEKO machines are protected from every kind of weather.

## OUTDOOR<sup>duo plus</sup>.

7...24 kW ( $t_o$  -10 °C /  $t_{LE}$  32 °C / R 134a)

- Future proof & environmentally conscious.
- Complies with the requirements of BAFA funding by virtue of the XLR2.0 type capacity control.
- Conforms to F-gas regulations when operated with R 407F.
- Easy setup.
- Short delivery times & high availability.

### Applications.

Filling station shops, food shops, bakeries, butcheries, restaurants and many more.

## ROOFPACK.

4...505 kW ( $t_o$  -10 °C /  $t_{LE}$  32 °C / R 134a)

- For the application with varying cooling loads or several cooling points
- Integration of the **TEKOPACK Series 2000** up to 6000
- Flexible due to a wide range of options

### Applications.

Smaller or middle supermarkets, cold-storage rooms, filling station shops, commercial kitchens, hotels, gastronomy, fruit and vegetable storage, etc.

Do you have only limited space in your b

At TEKO, you receive solutions for the outdoor ins as a complete unit – Plug & Play. Or as an integrat machine with weather and sound protection.



OUTDOOR duo plus



ROOFPACK RPU



building?

Installation  
needed



### TEKOPACK series. In weather protection enclosure.

Save the machinery room for your TEKOPACK series by using our new enclosures for outdoor installation! We have developed them in collaboration with our partner suppliers for metal sheets and frames – made in Germany. Also available with sound-proofing

#### High quality materials protect your installation.

- Pre-galvanized steel sheets - protected from rust
- Coated on the outside – with RAL 9002
- Stable baseframe for mounting of the rack units

#### Modular structure.

- Sheet metal parts are produced individually - stock articles
- Assembled directly by us, in correspondance to the refrigeration unit's size
- Available in 2 heights & 2 depths – depending on the refrigeration unit's design
- Can be flexibly expanded – also for installation of the switchboard and receiver station

#### Easy handling.

- Removable side parts
- Manageable – all components are easily accessible
- Easy to service
- All connecting pipes are completely installed inside and routed to the outside of the enclosure
- Ventilation integrated in enclosure
- Lifting lugs for easy installation



# PARTNERSHIP WURM SYSTEME



Close association from more than 30 years.

We have been the exclusive distribution partner for Wurm Systeme since 1985. Since that time, Wurm's control solutions have been integrated into TEKO systems and concepts. The intelligence of the TEKO systems comes from the Wurm control system. The parameters and settings required for this come from 30 years of successful cooperation and close coordination between Wurm and TEKO.



### Recognized technology.

Well-known retail chains and food companies rely on Wurm technology in conjunction with our refrigeration systems. The suitable switchgear comes from the subsidiary Wurm Schaltanlagenbau, which has been successful on the market for over 40 years. Of course we also supply the hardware and software components separately.

The research and development work is carried out on the basis of real operating data. Wurm continuously supplies software packages that solve current problems.

### Perfect solutions for retailers.

Wurm Systeme's integrated control system is a central guarantee of success for perfectly chilled food. It optimally controls and permanently monitors the temperature of your chilled goods and documents operator obligations accordingly.

Via software and remote diagnosis, operators, store managers and refrigeration specialists can monitor the temperature data at the touch of a button, evaluate and optimise it clearly and access the legally prescribed temperature documentation in accordance with HACCP. You can monitor and analyze both individual projects and project quantities across retail chains.

100% security of the stored data is guaranteed by the Wurm Security Center. Wurm operates a highly professional, redundant server farm located in Remscheid. The TÜV-certified system stores billions of data points every day. The operator / refrigeration specialist / user receives exactly the data he needs via his individual access and user rights.

### Save money.

The cooling of food always involves high energy costs. Energy consumption can be significantly reduced by precisely matched performance to fluctuating cooling requirements – e.g. (un)glazed refrigeration units, defrost cycles, summer/winter operation, peak times, etc. – and this can be achieved through the use of precisely coordinated cooling systems. In addition to the refrigeration system, the ventilation, heating, air conditioning and lighting of the building are major energy consumers.



Thanks to the building management system from GTM (member of the Wurm Group), these trades can be optimally combined with the control of refrigeration systems. You gain a deep insight into energy consumption and key figures of your store or retail chain. This enables you to carry out energy comparisons, implement energy management in accordance with ISO 50001 and avoid cost-intensive consumption such as peak electricity loads.



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