

## Instrument and Plant Air Compressor Packages



# KAESER KOMPRESSOREN – The global compressed air system provider

With expertise and commitment from 5000 dedicated employees worldwide, KAESER ranks amongst the world's largest and most successful compressor manufacturers, exporting compressed air system equipment to almost every corner of the planet. Founded in 1919, the breakthrough on the road to today's market-leading position came when KAESER developed the rotary screw airend featuring the SIGMA profile.

## Turnkey compressed air stations made in Austria

Over the last decade KAESER Austria has acquired an excellent reputation as a supplier of instrument and plant air compressor packages. References on all continents and in many different industries prove the expertise of the KAESER engineers and technicians.

## Main plant, Coburg

The KAESER headquarters in Coburg currently employs approx. 1900 people. The facility covers an area of over 150,000 m<sup>2</sup> and produces KAESER's extensive range of compressors. All companies in the international KAESER group are linked using the very latest information- and network-technology.



## The world is our home

With innovative products and services, KAESER's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the Kaeser group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that all products operate at the peak of their performance at all times and provide maximum availability. As one of the world's largest manufacturers of rotary screw compressors, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

### Global service and advice

Our goal is total customer satisfaction, which is why we have created a worldwide service network providing global customer support. Expert service technicians and engineers are available throughout the world to give fast, reliable help where you need it, when you need it. KAESER's service personnel use only genuine maintenance and spare parts with proven long-term quality to ensure unrivalled reliability and long service life. Only Kaeser original parts guarantee tested quality.



# **KAESER** turnkey installations

## **The yardstick for easy operation and safety**

KAESER Air and Nitrogen Packages are especially designed for operation in harsh environments such as are found in the deserts of Middle Eastern countries or off-shore. Ambient temperatures below 0°C and as high as 60°C are taken into account when selecting components for the package.



## Optional equipment

Containerised installation

Execution in carbon steel, stainless steel,  
duplex stainless steel

Various pressure vessel codes, e.g. CE, ASME,  
GHOST, CM etc.

Pulse jet filters

Dual redundant control systems

Motor starter panels



### Containerised installation

Completely piped and wired, including ducts, coolers, heating, supersoundproofing – all according to your requirement. Sizes up to 40', or split execution. Fully automatic operation including all safety provisions.



### Stainless steel execution

For offshore applications and other challenging operation conditions. Tailormade to your specifications, casings, coolers, valves, interconnecting piping etc. in various stainless steel qualities.



# **KAESER** Compressed air systems Factory tested and ready for operation



## References

We have successfully supplied different industries for many years. Well-known brand owners of various industries confirm our approach through long time business partnerships. We put special emphasis on customer specific solutions as well as innovation.

Looking back on more than 10 years of experience in the oilfield industry and with more than 100 delivered turnkey compressed air systems, KAESER continuously extends its expertise while staying close to customers. This leads to frequent innovations, based on proven technologies.

Oil and gas solutions made by KAESER have been installed in

Tunisia  
Oman  
Qatar  
Philippines

Syria  
United Arab Emirates  
Malaysia  
and others







# KAESER rotary screw compressors

## Persuasive technology



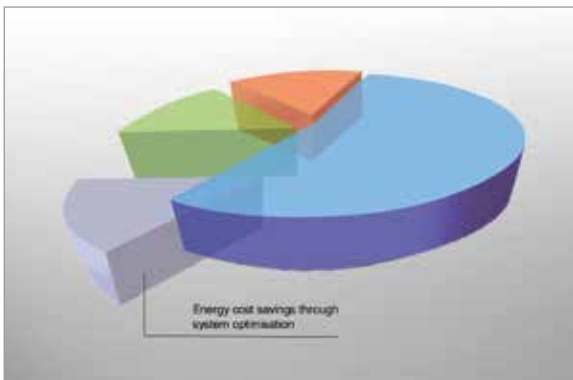
### SIGMA Control 2

The SIGMA CONTROL 2 ensures efficient control and system monitoring. The large display and RFID reader ensures effective communication and maximum security. Multiple interfaces offer exceptional flexibility, whilst the SD card slot makes updates quick and easy.



### Low speed operation

Large, low speed air ends are more efficient than small high speed air ends because they supply more air for the same drive power. Low speeds mean less wear and consequently less maintenance costs.



### Low life-cycle costs

Energy costs, taken over the lifetime of a compressor, add up to a multiple of investment costs. Every KAESER rotary screw air end is equipped with energy-saving SIGMA PROFILE rotors.

- Compressed air system investment
- Energy costs
- Maintenance costs
- Potential energy costs savings



### Quiet and efficient radial fan

The quiet and powerful radial fan draws in cool ambient air through the cooler. Its high residual thrust can deal with partial clogging of the cooler and still have enough reserve to allow connection of a long exhaust duct. In addition, the radial fan consumes significantly less drive power than conventional axial fans, saving even more energy.



# Dry-running KAESER rotary screw compressors

## Optimum performance



### Comfortable even when hot

A generously-sized SFC module and efficient cooling of its separate control cabinet allows the use of Kaeser variable speed compressors in ambient temperatures up to +45 °C.



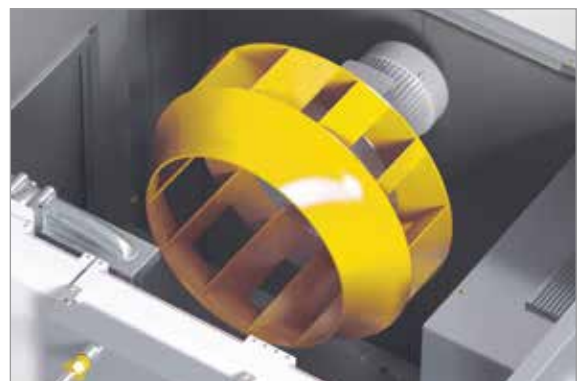
### Proven airends

At the heart of every Kaeser dry-running compressor lies a tried and tested dry-running, two-stage rotary screw airend. Providing optimum performance and dependability, every airend ensures maximum efficiency throughout its entire service life.



### Durable coating

The rotors are treated using the special "Ultra Coat" process which provides the innovative and durable coating which is resistant to temperatures up to 300 °C. Because this cost-reducing coating is highly abrasion-proof, its sealing and protection performance remains consistent even after years of operation.



### Efficient compressed air cooling

Quiet and powerful, the radial fan draws in cool ambient air through the cooler. Its high residual thrust allows connection of long exhaust duct sections. In addition, the radial fan consumes significantly less drive power than conventional axial fans, saving even more energy.



# Compressed air treatment systems

## Just choose your filtration class and dew point



### Filters and centrifugal separators

Perfectly matched to compressor and compressed air treatment equipment, KAESER's extensive range of filters ensures that all relevant compressed air quality classes are maintained reliably and efficiently over the long-term



### Desiccant dryers

The excellent design and quality of the KAESER desiccant dryers ensure dependable drying power to  $-70\text{ }^{\circ}\text{C}$ . Low-pressure dew point performance can be achieved and sustained with continuous system operation, even a full load and with high inlet temperatures.



### KMM Membrane dryers, reliable and maintenance-free

Requiring minimal space and no additional power source, KMM membrane dryers achieve pressure dew points up to  $-40\text{ }^{\circ}\text{C}$ . Their „Flow“ concept of inside to outside permeation and the spiralled helix structure of the fibres ensure exceptional drying results.



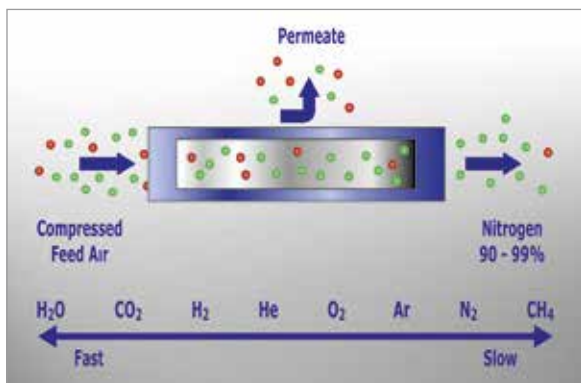
### HYBRITEC combination dryers, pressure dew point $+3 / -40\text{ }^{\circ}\text{C}$

HYBRITEC compressed air dryers combine the energy-saving functionality of modern refrigeration dryers with the exceptionally low pressure dew point of desiccant dryers. KAESER is the only provider to offer such combination systems in a highly standardised way.



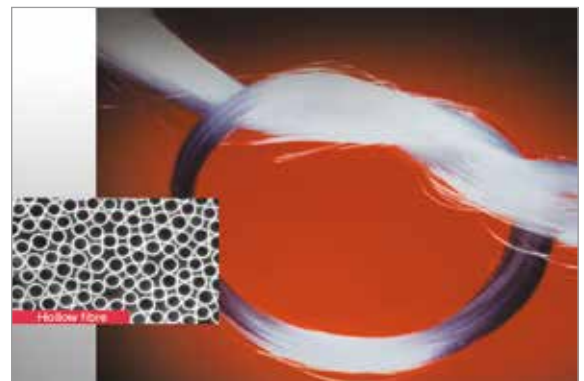
# Nitrogen generating systems

## Highest purity up to 99.9 %



### Efficient separation system

Nitrogen generator systems manufactured with the Generon® IGS membrane technology save our customers significant monies due to the high operating efficiency. The membranes require 10 – 40% less compressed air than other offerings on the market.



### Innovative membrane technology

The Generon® IGS membrane technology combines the best available membrane materials with state-of-the-art fiber bundling and the optimum module fabrication methods to provide the most cost effective solution for on-site nitrogen production.



### State-of-the art in engineering and manufacturing standards

KAESER has been providing engineered systems to the oil and gas industry since about 2001. Containerised or skid mounted systems which are portable, compact, light-weight and reliable, showing excellent engineering and manufacturing standards, perfectly meet the requirements of this industry.



### Perfectly fit to KAESER's range of compressed air packages

KAESER has developed remarkably economical system solutions for this growing field of application, comprising of compressed air stations, including air treatment, and tailored nitrogen generating packages. The system users benefit from low investment and unrivalled low operating costs.

# KAESER – Certified quality



Sector-specific quality management **ISO 29001**  
KAESER instrument air compressor and air dryer packages are engineered, manufactured and built in accordance with ISO 29001:2010 which defines the quality management system for product and service supply organizations **for the petroleum, petrochemical and natural gas industries.**



Quality management **ISO 9001**  
KAESER Kompressoren operates a Quality Management System acc. ISO 9001:2008 to ensure the ability to consistently provide products and services that meets customer and applicable regulatory requirements, and to increase customer satisfaction through the effective application of the system.



Environment Management **ISO 14001**  
We believe that maintaining the quality of the environment is not just the responsibility of the state but also that of every enterprise and individual. We determine the measures required for a sustainable operation, including energy-saving, reducing the consumption of natural resources and lowering or avoiding emissions of harmful substances.



Occupational health and safety **BS OHSAS 18001**  
We assume responsibility for the health and safety of our employees at their workplace. We recognize hazards and identify preventive measures against accidents and occupational diseases. Using training and instructions, we ensure that all employees are well versed in the topic of work safety.



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