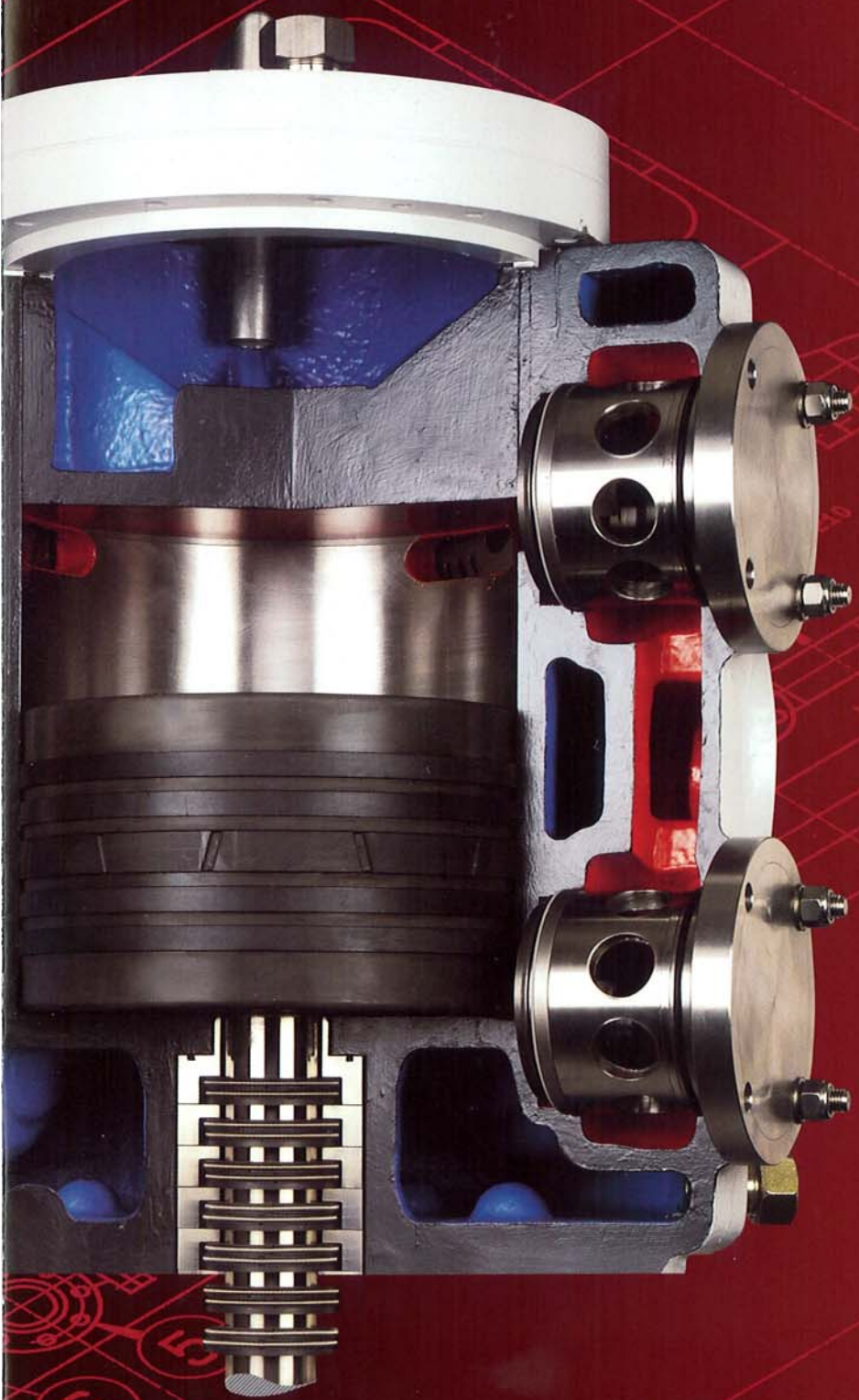


C O M P R E S S T H E B E S T Y O U C A N



KOHO
KOMPRESSORSYSTEME

Business portrait



KOHO
KOMPRESSORSYSTEME

Completely automatic compressor system comprising of:

- dry running reciprocating compressors (one operating, one stand-by)
- control panel, operation "fail-safe"
- gas dryer unit, dewpoint -60°C
- closed loop cooling water system

On behalf of all our staff from Sales, Engineering, Production and Service, we extend a warm welcome to the world of KOHO in Hagen, Westphalia and thank you for your interest in the compressor systems manufactured by Köhler & Hörter – the enterprise behind the name.

Our job is the design, building, repair and modernization of piston compressors. On-time delivery, first-class quality, and reliability are the hallmarks of our business and which we are sure, you will find more than convincing.

Besides enhancing environment-friendliness, and saving energy, the optimization of wearing parts is an additional field of activity covered by our specialists.

KOHO not only has the necessary specialist knowledge but also the required degree of flexibility to be able to respond to customer needs with extraordinary speed. This is proven, again and again, in every-day practice.

Mature quality control, qualified, highly motivated staff and - last but not least - certification in accordance with DIN EN ISO 9001 enable us to grant long-term warranty on all compressors and systems under continuous operation. That is a feature that speaks for itself. And after sales service is, of course, given absolute top priority.

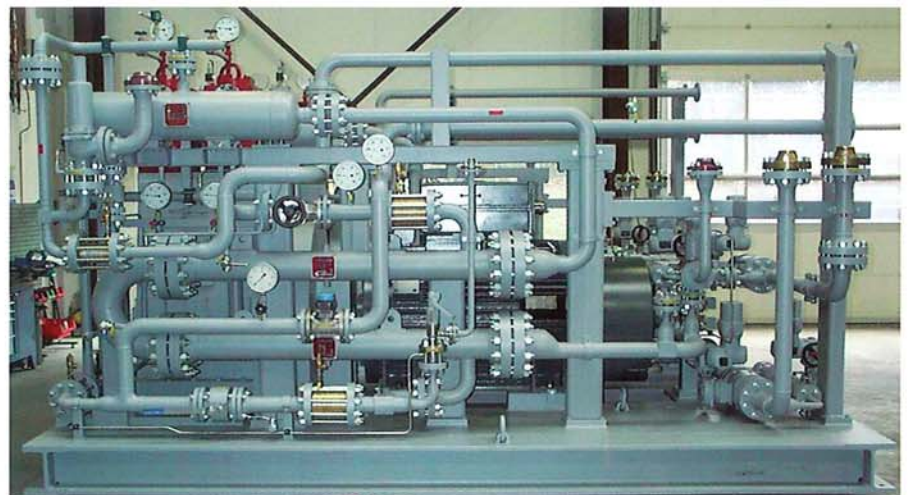
Consequently, if rumours start to spread in your plant about inefficient, faulty or even compressors that need to be re-conditioned, or you need a completely new system - contact us without delay. You can rest assured that we will find the right solution at an affordable price.



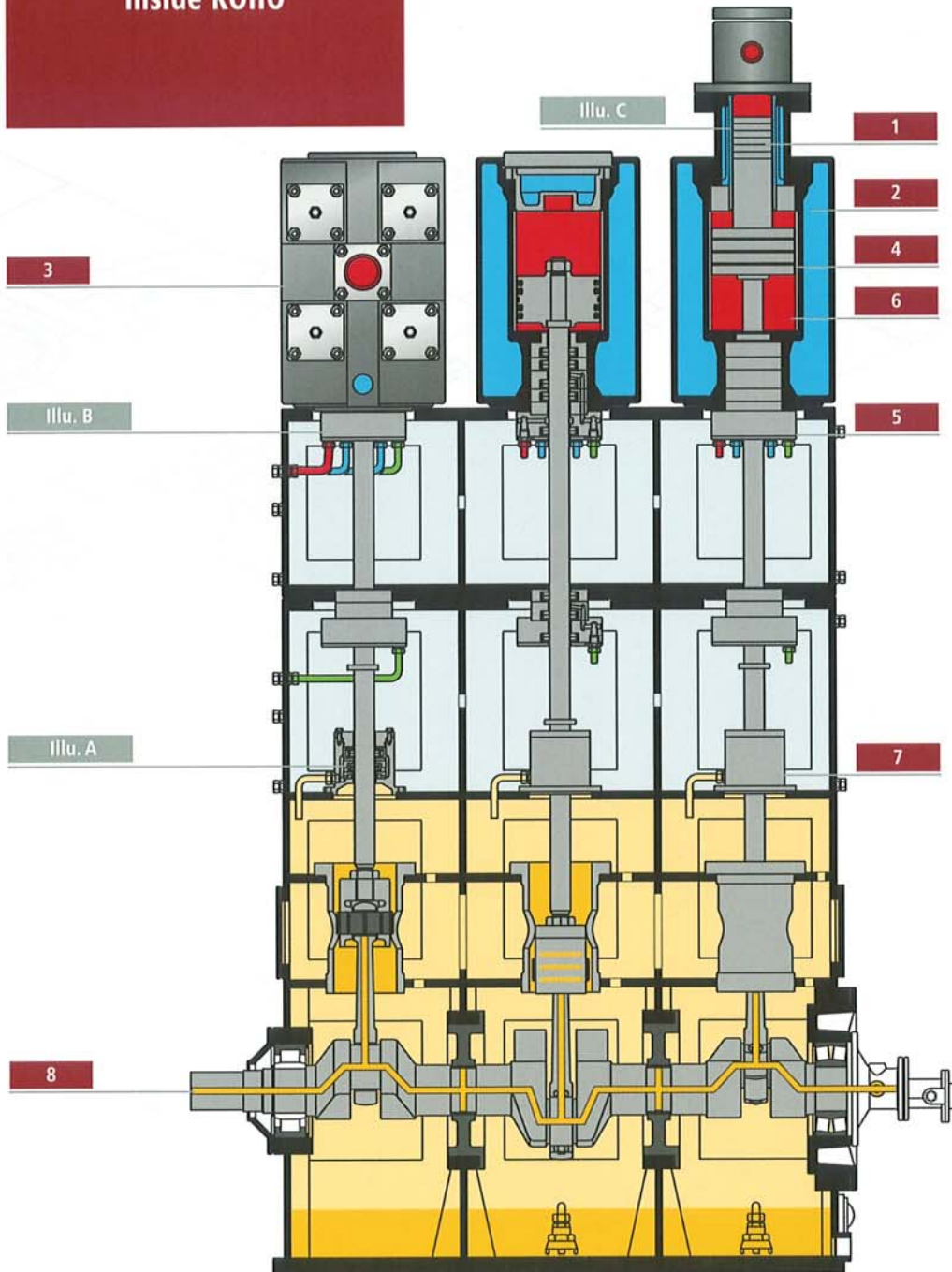
Precision - the motto of our highly motivated workforce in manufacturing ...

Reciprocating compressor:
dry running, 2 cylinders, single-stage,
watercooled, direct drive, explosion proof

Medium	Natural gas	
Volume flow	5800-12000	m ³ _N /h
Motor power	280	kW
Suction pressure	36-61	bar a
Delivery pressure	36-101	bar a



Inside KOHO



KOHO compressor systems

- 1) 1, 2 or 3 cylinder
- 2) water cooling
- 3) vertical construction with cylinders arranged in rows
- 4) piston and guide rings for absolute oil-free compression
- 5) sealing of the lower compression chamber on the piston rod by means of an oil-free, multi-chamber gland
- 6) compression 1, 2, 3 or 4-stage
- 7) separation of the forced oil lubricated drive system from the dry-running cylinder by oil wipers and long single or long two-compartment distance piece
- 8) motion work: forced oil lubricated, consisting of crankshaft, connecting rod, crosshead and exchangeable crosshead guide

Gas	Cooling water
Purge gas	Oil



Illu. A: oil wiper packing with floating segments and gas seal.



Illu. B: gland packing with floating elements, gas extraction and condensation removal.



Illu. C: step piston with special piston and guide rings for high pressure sealing.

Engineering and Performance

KOHO compressor systems are highlighted by variable, long-life design.

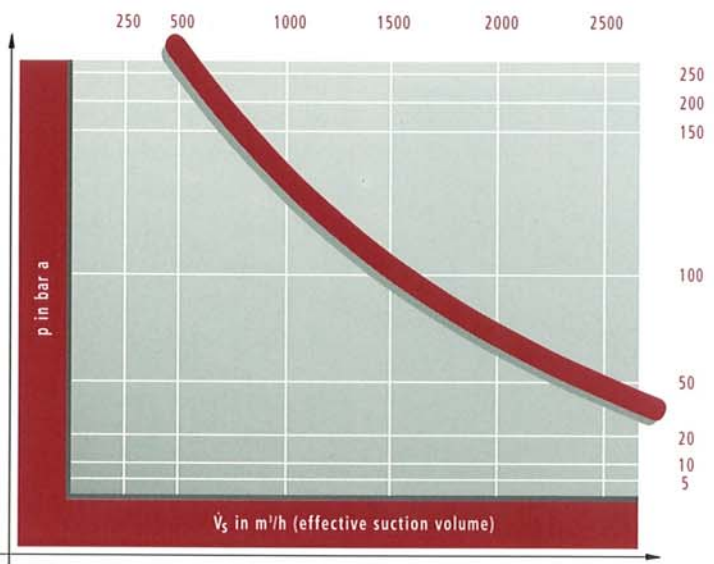
Even after many years of use, when production systems must be reorganized to cope with changing technical needs, it is essential, especially from the economics point of view, that compressor systems are adapted to changed conditions to not only maintain but increase overall production and efficiency. KOHO modular design technology fits the bill perfectly.

That's why KOHO design engineers also attach such great importance to the proven principle of the "conservative basic concept". The inclusion of capacity reserves, and optimum fulfilment of customer needs, guarantees a final product that caters for all requirements.

The KOHO know-how, and close cooperation with leading manufacturers of compressor valves, piston rings, glands etc. provide for

maximum service life and operational safety, excellent delivery times and lowering of operating costs. And that applies to all KOHO compressor systems.

The special design and choice of accessories e.g. coolers, separators, pulsation dampeners, fittings or instruments serve to enhance the standards of quality achieved in manufacturing.



KOHO engineers are able to adapt the volume flow of compressor systems to the variable need of the plant by specially designed volume flow regulations. The concept is drawn up by KOHO in close cooperation with the user. It can be stepless, stepwise or be a combination of both. The result, at all events, is truly convincing.



In Practice

The endeavours of industry to manufacture high-quality products, to design, build and operate reliable production systems, at the same time achieving maximum efficiency and productivity, demand the use, at the most varied locations, of completely oil-free compressors.

KOHO compressor systems have been meeting these needs, under harsh, continuous operation, since 1948. The major areas of application are the chemical, petrochemical and pharmaceutical industries, reactor technology, gas decanting and distribution, gas recovery and liquefaction, the production of inert gas, gas



storage systems, in the foods industry, breweries, refineries, coffee roasters, ship-building, packaging industry, power stations, plastics, electro and beverages industry, automatic control engineering, industrial furnaces, coking plants, extraction technology and other processing technology applications.

KOHO
KOMPRESSORSYSTEME



The spectrum of compressable media is large, ranging from air, water vapors, hydro-carbons and their mixtures, carbon monoxide and carbon dioxide, inert gases, cracked gases, noble gases and hydrogen to highly aggressive hydrogen-sulphides and nitrous-gases. These elements produce the most exacting demands from all sides of industry which we fulfil reliably and safely.

KOHO compressor systems are designed for variable suction pressure, depending upon user requirements, with the regulations and specifications laid down in API 618, ISO 8012, NACE, DVGW, ASME, TEMA, PED, DIN EN 729-3; AD 2000 / HPO, Stoomweezen, Det Norske, Veritas, Germanischer Lloyd as well as special factory standards of international clients.

