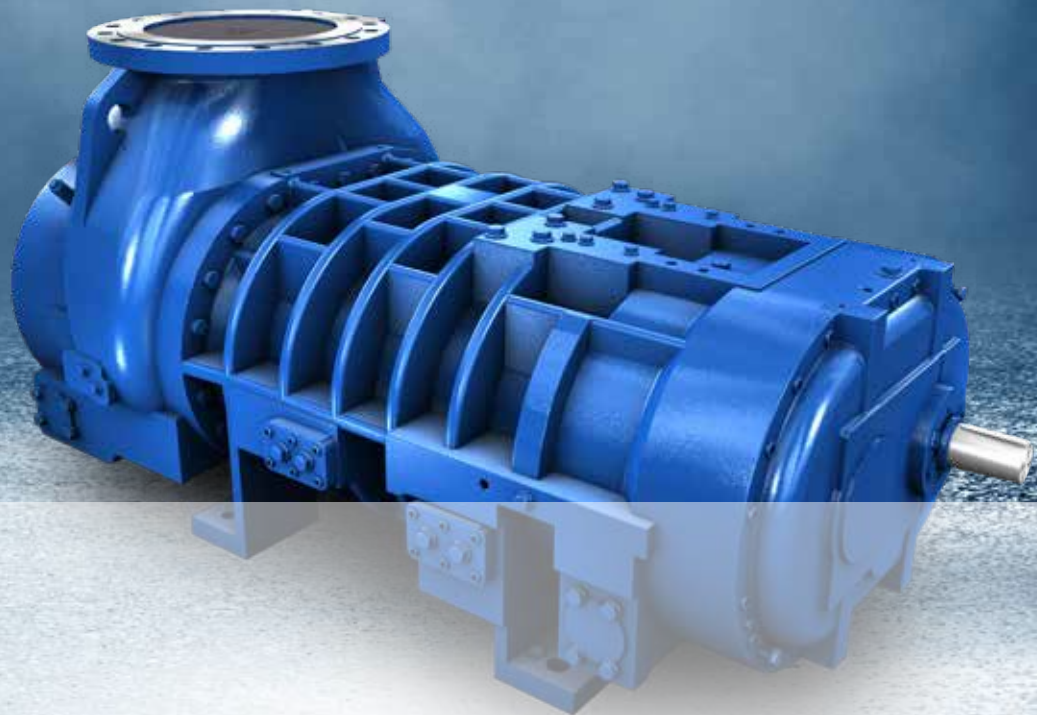


THE FUTURE OF **HYDROGEN COMPRESSION**

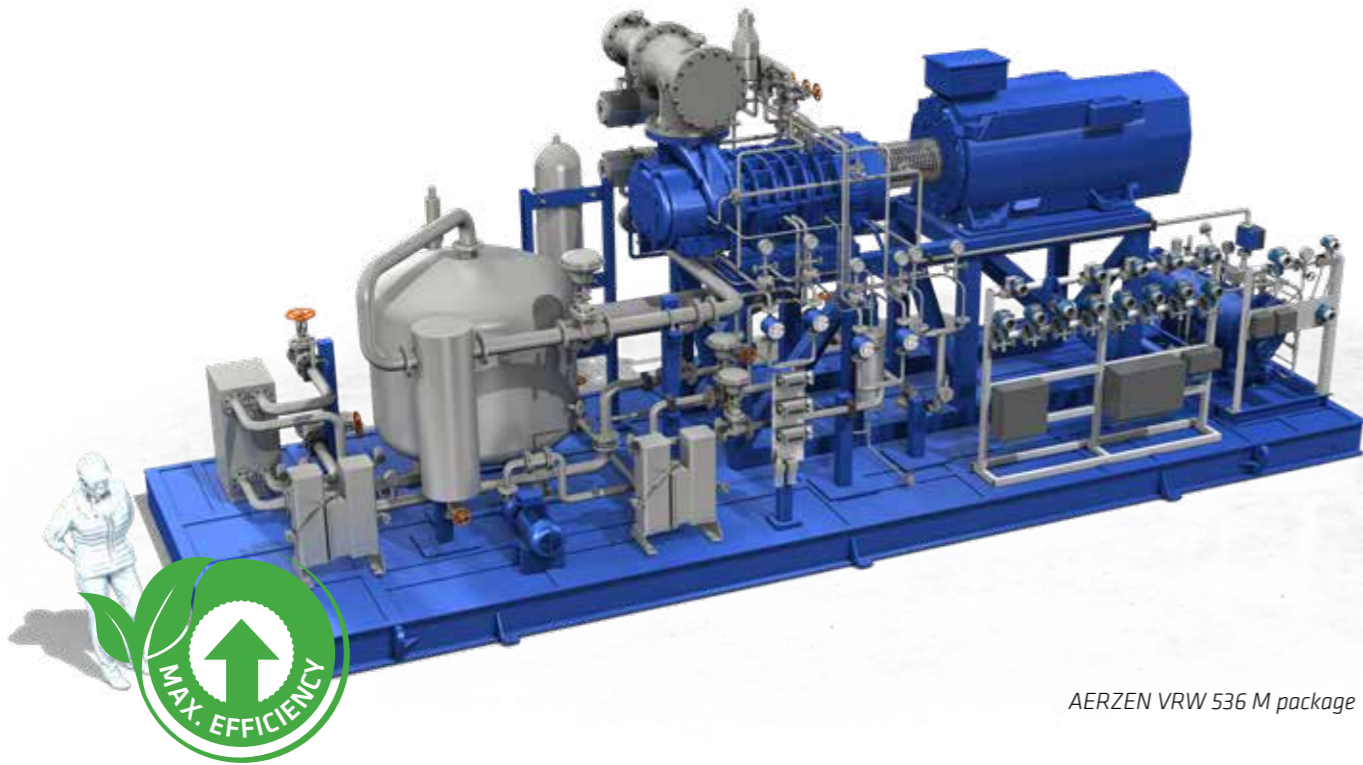
VRW 536 M - The oil-free, water-injected screw compressor



AERZEN

VRW 536 M - SCREW COMPRESSOR

Water-injected, reliable and highly efficient



AERZEN VRW 536 M package

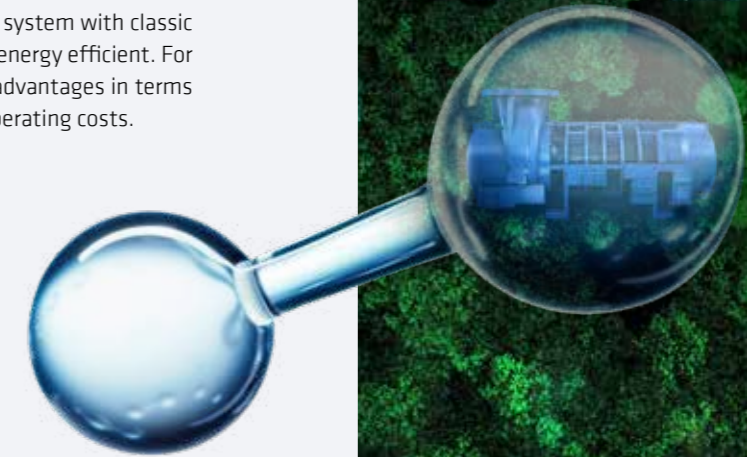
THE RIGHT COMPRESSORS

are key to success

Size H_2 -Bringing volume flows to intermediate and final pressures with just a few compressor stages, without having to set up huge reciprocating compressor systems for this purpose - precisely here is where the new VRW 536 M oil-free screw compressor from AERZEN comes in.

Compression is based on the principle of oil-fluited screw compressors - with a small but subtle difference: the oil was replaced by water. The water serves both for cooling the gas and for gap sealing and enables compression at with high efficiency.

This stage can, thus, replace a two-stage system with classic dry screw compressors and is even more energy efficient. For the customer, this results in significant advantages in terms of footprint as well as investment and operating costs.



YOUR ADVANTAGES

Our promise

- ✓ 100% oil-free compression
- ✓ Maximum efficiency and increased differential pressure in one stage
- ✓ Minimisation of installation area
- ✓ Reduced investment and operating costs
- ✓ Pre-drying of the wet H_2 -gas is not required
- ✓ Ideal as a pre-compressor (booster) for the following compressor types
- ✓ Also suitable for other critical gas applications (e.g. flare gas, contaminated gases)

PERFORMANCE DATA

AERZEN VRW 536 M

Volume flow:
6000 m³/h

Intake pressure:
1,0 - 1,3 bar

Maximum discharge pressure:
10 bar a



For more information on the oil-free screw compressor VRW536M please refer to our website www.aerzen.com

TECHNICAL PROPERTIES

The new H_2 -Compressor concept

- i Water injection for cooling the gas and for gap sealing (efficiency increase)
- i Stainless steel design for maximum service life (corrosion resistance)
- i Water-purged mechanical seals at the conveying chamber for 100% oil-free compression
- i Oil-lubricated roller bearing for maximum speed range
- i Speed control for adaptation to fluctuating process conditions
- i Gear-synchronised rotors (no contact with the rotors)
- i Designed for three-year revision cycle (MTBO)
- i Directly coupled or with gear ratio

SCOPE OF SUPPLY (Standard)

- Customer-specific package with auxiliary media
- Instrumentation (optimal with machine monitoring)
- Complete control (optional)
- Acoustic hood (optional)

Extensive modifications and individual accessories for numerous application areas and operating conditions, available on request.

AERZEN. Compression – the key to our success.

AERZEN was founded in 1864 as Aerzener Maschinenfabrik. In 1868, we built Europe's first positive displacement blower. The first turbo blowers followed in 1911, the first screw compressors in 1943 and in 2010: the world's first rotary lobe compressor package. Innovations "made by AERZEN" keep driving forward the development of compressor technology. Today, AERZEN is among the world's longest established and most significant manufacturers of positive displacement blowers, rotary lobe compressors, screw compressors and turbo blowers.

AERZEN is among the undisputed market leaders in many areas of application. At our 50 subsidiaries around the world, more than 2,500 experienced employees are working hard to shape the future of compressor technology. Their technological expertise, our international network of experts, and the constant feedback we get from our customers provide the basis for our success. AERZEN products and services set the standard in terms of reliability, stability of value and efficiency. Go ahead - challenge us!



**FIND
YOUR LOCAL
CONTACT**

www.aerzen.com/worldwide



Aerzener Maschinenfabrik GmbH
Reherweg 28 – 31855 Aerzen, Germany
Phone: +49 5154 81 0 – Fax: +49 5154 81 9191
info@erzen.com – www.aerzen.com



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EXPECT PERFORMANCE