

Process gas compression

High-performance solutions

VMY 836 H

The oil-flooded screw compressor for maximum volume flows



AERZEN
EXPECT PERFORMANCE

VMY 836 H - screw compressor

Maximum volume flows, optimised for the application



Customised VMY 836 H package

Highest volumes

Full flexibility in the application

AERZEN is one of the pioneers of screw compressor technology and has been supporting the process industry for decades with custom-fit, high-performance and reliable high-end solutions.

The new VMY 836 H is AERZEN's largest oil-flooded compressor. It expands the VMY series and delivers more than twice the volume flow of size VMY 536, the previous flagship. The new package achieves volume flows of up to 23,500 Nm³/h, which is one of the top levels for oil-flooded screws.

Like all VMY compressors, the VMY 836 H is designed for years of continuous operation and maximum reliability. The design and oil injection make the machine flexible for fluctuating volumes, temperatures and pressures. This makes it suitable for a wide range of oil-compatible gases and gas mixtures (including refrigerants, hydrocarbons, hydrogen, natural gas, helium and mixed gases). The VMY 836 H can also be used for pre-compression (booster) for subsequent compressor technologies (e.g. reciprocating compressors).



Your advantages

Our promise

- ✓ Suitable for a wide range of oil-compatible gases and mixed gases
- ✓ Maximum reliability and low operating costs
- ✓ Comfortable volume flow control via highest efficiencies
- ✓ Efficient partial load operation
- ✓ Flexible adaptation to dynamic process parameters
- ✓ Extensive modifications and accessory solutions
- ✓ Technological excellence and experience for more than 150 years

Performance data AERZEN VMY 836 H

Volume flow:	23.500 m ³ /h
Intake pressure:	≤ 9 bar a
Differential pressure:	20 bar*
Discharge pressure:	≤ 25 bar a

* depending on intake pressure



You can find more information about the VMY 836 H at www.aerzen.com

Technical features

Compression at the highest level

- i Intake temperature:** -60/60°C
- i Seal type:** Oil-purged mechanical seal at the drive shaft (single or double-acting)
- i Bearing type:** Radial: hydrodynamic / axial: Tilting pad thrust
- i Housing material:** EN-GJS-400-18-LT / GP240GH / GS21-Mn5
- i Flow direction:** Horizontal
- i Regulation:** Slide valve (bypass, frequency converter optional)
- i Typical applications:**
 - PSA - Pressure Swing Adsorption
 - Refineries
 - Helium
 - Refrigeration technology

Scope of supply (Standard)

- Package on steel base frame
- Free-standing, oil unit on separate skid
- Electric drive, direct or with gearbox
- Stationary oil reservoir
- Single plate or shell-and-tube heat exchanger (Double cooler optional)
- Double oil filter
- Oil pumps: single,
- Auxiliary pump (optional)
- Oil separator: Coalescer type (second oil separator optional)

Extensive modifications and individual accessories for numerous application areas and operating conditions.

AERZEN. Compression is the key to our success

The Aerzener Maschinenfabrik GmbH was founded in 1864. 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. And among the undisputed market leaders in many areas of application.

In more than 50 subsidiaries around the world, more than 2,600 experienced employees are working hard on shaping the future of compression technology. Their technical competence, our international network of experts and the continual feedback from our customers are the basis of our success. AERZEN products and services set standards. In particular, with regard to reliability, stability of value and efficiency. Challenge us.



LET'S TALK

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