

TWO-STAGE, WATER-COOLED COMPRESSORS

TZW 50, TZW 60, TZW 70

TZW 50, TZW 60 and TZW 70 compressors are used primarily in the following sectors:

Food & Beverages

Environment

Petrochemistry

Raw Materials

Machine Construction

Special Engineering

Chemistry



TZW 50, TZW 60 and TZW 70 are two-stage, water-cooled compressors. These products are used in the sectors Food & Beverage as well as Machine Construction and are developed for all oil- and silicone-free applications. Mehrer's vertical compressor design is space saving. The TZW 50, TZW 60 and TZW 70 can be operated with pre-pressure and frequency controlled working speed.

The most important advantages:

- 100 % oil-free compression without the use of filters
- Water-cooled
- Low maintenance
- Durable
- Efficient
- Robust
- Risk assessment according to DIN EN ISO 12100

OUR EXPERIENCE – YOUR BENEFITS

Technical data

Series	TZW 50	TZW 60	TZW 70
Description	2-stage, single-acting	2-stage, single-acting	2-stage, double-acting
Max. compression ratio per stage	1:5.5	1:5.5	1:5.5
Max. suction pressure	9 bara	9 bara	9 bara
Max. final pressure*	27 bara	23 bara	23 bara
Stroke volume per 1 crank revolution	3604 ccm	6652 ccm	11 426 ccm
Max. drive power on the shaft	15 kW	37 kW	55 kW
Speed range	400 - 710 rpm	380 - 725 rpm	380 - 725 rpm
Arrangement of the cylinders	Series	Series	Series
Type of drive	Belt driven	Belt driven	Belt driven
Compression of toxic and flammable gases	Possible	Possible	Possible
Compressor cooling	Water-cooled	Water-cooled	Water-cooled

* Relieve pressure safety valve, operating pressure max. = 0,9 x max. final pressure

CYLINDER BLOCK

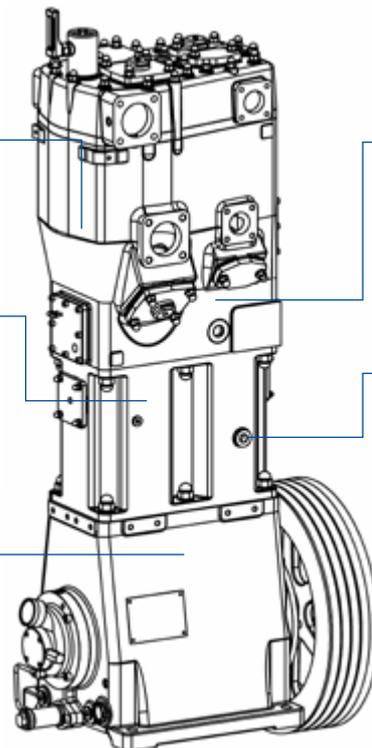
Due to the modular design of the cylinder block, the compressor can be adapted according to its compression requirements.

LANTERN

The lantern is the key to oil-free compression.

CRANK GEAR

Our extremely robust crank gear ensures high availability of the system through the crosshead design.



GAS GLAND

This assembly separates the gas section of the compressor from the drive section. It prevents gas from the compression space from getting into the lantern. The gas gland is designed according to the application.

LEAKAGE AND PURGE GAS CONNECTIONS

Due to the built-in connections, the compressor can be purged with inert gases. This allows also corrosive gases (e.g. high H₂S content) to be compressed.

Get in touch with us!

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