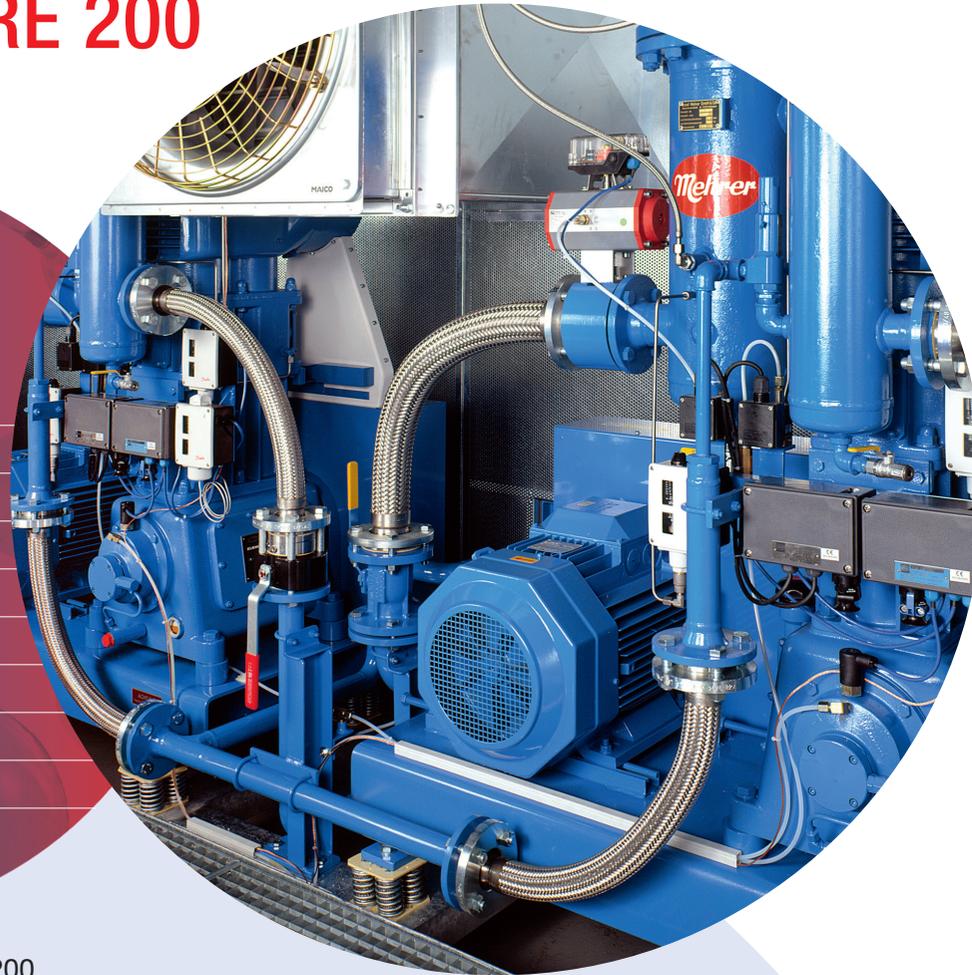


SINGLE- AND TWO-STAGE, AIR-COOLED COMPRESSORS

Series TEL 80, TRE 200 and TRZ 300

TEL80, TRE 200 and TRZ 300 compressors are used primarily in the following sectors:

Biogas
Carbon Capture
Chemistry
Environment
Food & Beverages
Machine Construction
Petrochemistry
Special Engineering



The air-cooled compressors TEL 80, TRE 200, and TRZ 300 offer versatile, efficient, and oil-free compression for demanding, toxic, and flammable gases. Air cooling allows use without a water supply. The TEL 80, ideal as an LPG transfer unit, features a space-saving vertical design and flexible operation. The TRE 200 and TRZ 300 refine the proven TEL and TZL series. The TRE 200 is also characterized by its suitability for operation with gas engines and can be operated with both biogas and hydrogen, making it particularly versatile and future-proof. All models ensure reliable performance through technical precision and robust design.

The most important advantages:

- 100 % oil-free compression without the use of filters
- Air-cooled piston compressor
- Contains cylinder liners
- Easy maintenance
- Durable
- Efficient
- Risk assessment according to DIN EN ISO 12100

OUR EXPERIENCE – YOUR BENEFITS

Technical data

Series	TEL 80	TRE 200	TRZ 300
Description	1-stage, single-acting	1-stage, single-acting	2-stage, single-acting
Max. compression ratio per stage	1:7	1:6	1:5.5
Max. suction pressure	370 psia	85 psia	155 psia
Max. final pressure*	370 psia	230 psia	440 psia
Stroke volume per crank revolution	210 in ³	43 in ³	101 in ³
Max. drive power on the shaft	40 hp	7 hp	14 hp
Speed range	400–735 rpm	380–800 rpm	380–750 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	Air-cooled	Air-cooled	Air-cooled

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

CYLINDER BLOCK

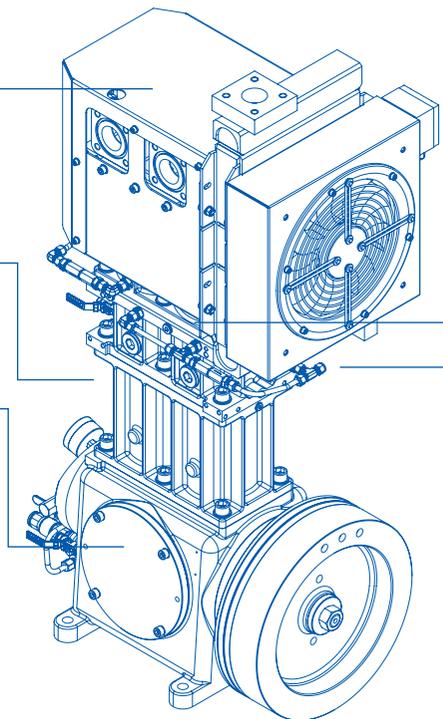
Due to the modular design of the cylinder block, the compressor can be adapted according to its compression requirements.

DISTANCE PIECE

The distance piece is the key to oil-free compression.

CRANK GEAR

Our 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 distance piece. 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.



processes' applications
www.mehrerpa.com

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