

MULTI-STAGE, WATER-COOLED COMPRESSORS

Series TRx 700

TRx 700 compressors are used primarily in the following sectors:

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



Compressors in the TRx 700 model series are available in single-, two- and three-stage designs. A booster version is also available in this series to further increase pre-compressed gas pressure. Compressors in the TRx 700 series are used when absolutely oil-free compression of difficult to compress gases is required.

The most important advantages:

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

OUR EXPERIENCE – YOUR BENEFITS

Technical data

Series	TRE 700	TRZ 700	TRB 700	TRD 700
Description	1-stage, double-acting	2-stage, double-acting	1-stage, double-acting	3-stage, double-acting
Max. compression ratio per stage	1:6	1:6	1:6	1:6
Max. suction pressure	370 psia	155 psia	650 psia	140 psia
Max. final pressure*	370 psia	640 psia	650 psia	1250 psia
Stroke volume per crank revolution	853 in ³	893 in ³	383 in ³	298 in ³
Max. drive power on the shaft	170 hp	170 hp	170 hp	170 hp
Speed range	380–850 rpm	380–850 rpm	380–850 rpm	380–850 rpm
Arrangement of the cylinders	Series	Series	Series	Series
Type of drive	Belt driven or direct drive	Belt driven or direct drive	Belt driven or direct drive	Belt driven or direct drive
Compression of toxic and flammable gases	Possible	Possible	Possible	Possible
Compressor cooling	Water-cooled	Water-cooled	Water-cooled	Water-cooled

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

CYLINDER BLOCK

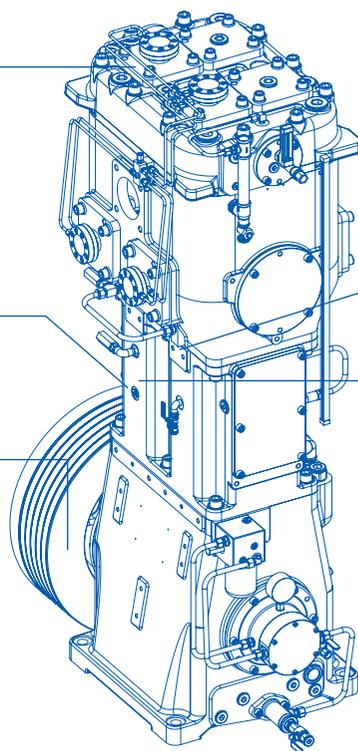
Due to the modular design of the cylinder block, the compressor can be adapted according to its compression requirements.

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

Get in touch with us!

Mehrer Compression PA, LP
 Website: www.mehrerpa.com

Email to contact: Sales@mehrerpa.com
 Phone number: 470-657-2013