



Multi-Stage, Water-Cooled Compressors SERIES TRx 700

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. Compressors in the TRx 700 series are used when absolutely oil-free compression of difficult to compress gases is required.

TRx 700 compressors are used primarily in the following sectors:

- Environment
- Special Engineering
- Petrochemistry
- Chemistry
- Food & Beverages
- Machine Construction
- Raw Materials

The most important advantages:

- 100% oil-free compression without the use of filters
- Water-cooled
- Low maintenance
- Durable
- Efficient
- Robust
- API oriented
- 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	1:5.5	1:6	1:5.5
Max. suction pressure	26 bara	11 bara	46 bara	9 bara
Max. final pressure*	26 bara	31 bara	46 bara	88 bara
Stroke volume per 1 crank revolution ($\psi = 360^\circ$)	13981 ccm	14637 ccm	6277 ccm	4899 ccm
Max. drive power on the shaft	108 kW	108 kW	108 kW	108 kW
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	Belt driven	Belt driven	Belt driven
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

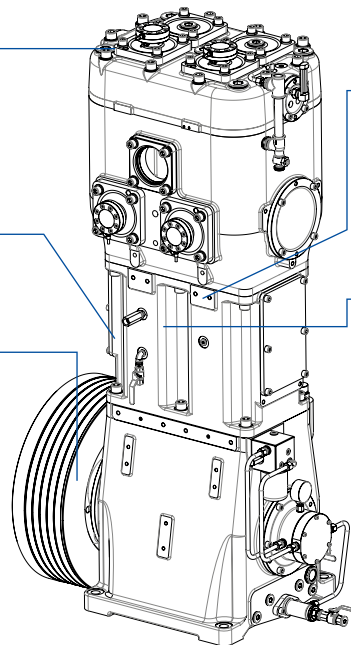
Due to the modular design of the cylinder block, the compressor can be adapted according to its compression requirements.

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.

YOUR CONTACT PERSON:

Mehrer Compression GmbH

Rosenfelder Str. 35 · 72336 Balingen · Germany

Phone +49 (0)7433 2605-0 · Fax +49 (0)7433 2605-41

www.mehrer.de · info@mehrer.de