



OIL-FREE COMPRESSORS SERIES TE

Series TE compressors function completely dry, i.e., with no cylinder lubrication and no oil-bath in the crankcase, and are designed for continuous operation under the most demanding conditions. Contamination of the compressed fluid by lubricating oils is thus excluded.

Our know-how in the field of special plant and systems engineering, combined with our sophisticated modular system, make it possible to construct complex systems meeting maximum quality and engineering standards and tailored precisely to the customer's needs.

TE series compressors with magnetic couplings (Series TEG) are a Haug development suitable for continuous compression of gases with no leakage (leakage rate <math><0.001\text{ mbar l/s}</math>). Haug first incorporated this hermetically tight and absolutely wear-free drive system into a compressor in 1989; it is suitable for suction pressures up to 10 bar.

TE series compressors with shaft seals (Series TED) achieve gas tightnesses of 0.01 mbar l/s. This gastight variant is a rationally priced alternative for compression of gases. Maximum suction pressures for this system are restricted to 3 bar. Haug has been using this shaft-seal system for compressors for oil-free compression of gases since 1978.

Repeated innovations and continuous refinement have made Haug TE series gas compressors an absolute high-tech product that now provides the ideal solution for safe, reliable and oil-free compression of gases in the 2.0 to 5.5 kW power range.



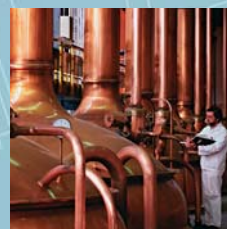
FEATURES

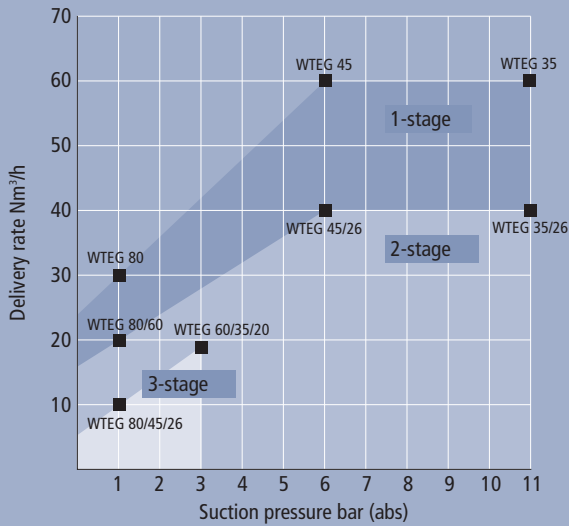
- Oil-free, non-lubricated reciprocating compressor
- Long service life of all components
- Air-cooled
- Magnetic coupling or shaft seal
- Power range: 2.0 to 5.5 kW
- Speeds from 980 to 1450 rpm
- Delivery rate: 5 to 60 Nm³/h
- Delivery pressure: 2 to 80 bar
- Simple, low-cost operation and maintenance
- Suitable for booster applications
- Conforms with ATEX

APPLICATIONS

Process compressors for plant engineering for the:

- Chemicals industry
- Pharmaceuticals industry
- Compression of medical gases
- Electronics industry
- Glass and steel industry
- Potable («drinking») water supplies
- Foodstuffs industry
- Beverages industry
- Research & Development
- Gas recovery
- Waste-water cleaning facilities
- Gas production and supply





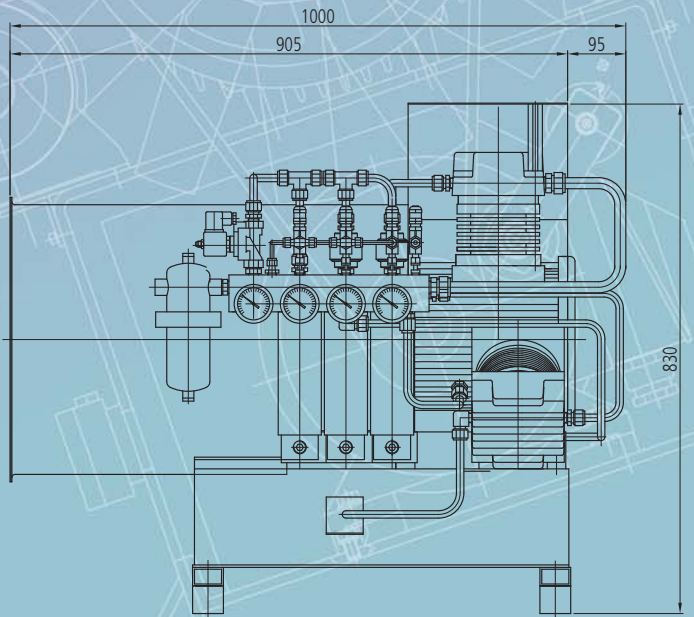
Calculated for air, speed 1450 rpm
 Pressure ratios:
 1-stage: approx. 4:1
 2-stage: approx. 10:1
 3-stage: approx. 40:1

TECHNICAL DATA

Dimensions:	W = 800 mm / L = 1000 mm / H = 900 mm
Weight:	250 to 390 kg, depending on variant
Electrical system:	Standard three-phase + E / 400 V / 50 Hz connection
Motor:	Three-phase motor / IP55 / 4 or 6 pole
Speed:	980 to 1450 rpm (50 Hz), 870 to 1170 rpm (60 Hz)
Ambient temp.:	Ideal range 5 to 35° C
Gas exit temp.:	approx. 20° C above ambient temperature
Noise level:	approx. 70 dB (A), depending on variant
Suction pressure:	max. suction pressure 10 bar (g)
Delivery pressure:	dependent on gas, suction pressure and number of stages. Maximum delivery pressure is 80 bar.

Type key

W = 3 cylinder;	V = 2 cylinder
Cylinder variants in mm:	20, 26, 30, 35, 40, 45, 60, 80
TE =	Compressor type «TE»
G =	with magnetic coupling
D =	with shaft seal
80 =	Cylinder diameter in mm
80/60 =	2-stage first stage with diameter 80 mm second stage with diameter 60 mm
80/45/26 =	3-stage first stage with diameter 80 mm second stage with diameter 45 mm third stage with diameter 26 mm



Side view of Type WTEG, 3-stage