



OIL-FREE COMPRESSORS SERIES TF

The TF series of compressors functions completely dry, i.e., without cylinder lubrication and with no oil bath in the crankcase. Contamination of the compressed-air product with lubricating oils is thus excluded.

Only an oil-free compressor system is capable of generating oil-free compressed air on a continuous basis, ensuring that neither oil aerosols nor oil vapours can enter the process.

The TF series was launched in the early nineties and has eminently proven its capabilities under the very toughest service conditions. The application of repeated innovations and continuous refinement have integrated into the TF series ultra-modern compressor technology and fifty years of experience in production of oil-free machines.

Oil-free TF compressors are suitable for universal use. They are suitable for continuous operation, intermittent operation and for standby emergency operation with long periods of shutdown. These dry compressors are extremely reliable and permit highly economical operation with no idling costs.



FEATURES

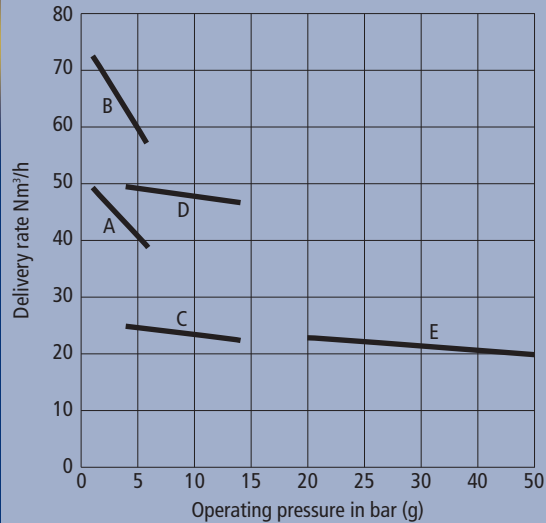
- Oil-free, dry-running reciprocating compressor
- Long service life of all components
- Air-cooled
- Compact, space-saving design
- Output: 4 to 7.5 kW
- Delivery rate: 20 to 70 Nm³/h
- Delivery pressure: 2 to 60 bar

APPLICATIONS

Many users depend on their compressed air being absolutely oil-free. Such applications include:

- Chemicals industry
- Pharmaceuticals industry
- Electronics
- Cleanroom technology
- Foodstuffs industry
- Beverages industry
- Pneumatic control systems
- Potable («drinking») water industry
- Medical compressed air





TECHNICAL DATA

Dimensions: W = 980 mm / L = 1105 mm / H = 990 mm
 Weight: 390 to 430 kg, depending on type
 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: 77 to 79 dB (A) (without suppression hood), depending on type, approx. 70 dB with suppression hood

Type / Speed	Op. pressure bar (g)	Motor rating kW	Delivery rate Nm³/h ⁽¹⁾	Graph
1-stage type				
VTF 100 LM-L / 1450 rpm	5 to 6	5.5	38	(A)
WTF 100 LM-L / 1450 rpm	5 to 6	7.5	57	(B)
2-stage type				
VTF 100/60 LM-L / 1450 rpm	10 to 12	4	24	(C)
WTF 100/60 LM-L / 1450 rpm	10 to 12	7.5	48	(D)
3-stage type				
WTF 100/60/30 LM-L / 1450 rpm	30 to 50	7.5	20	(E)

(1) Effective delivery rate referred to standard conditions (20° C/1013 mbar), measured at medium operating pressure



Compressor control system

Available as option. Supplied separately or mounted and wired on the compressor. Consisting of main switch, signal lamps, operating-hours counter, discharge pressure switch, star-delta starting and motor protection.

Piping and valves

Stainless steel or copper. With air/air after-cooler, efficient condensate separator and automatic condensate trap. Including built-on load-relief mechanism, comprising safety valve and solenoid valve for pressure-relieved start up and check valve.

Drive system

Drive by means of directly coupled electric motor, which drives the compressor via a flexible coupling. Cooling by means of a generously dimensioned fan, fixed to the second end of the motor's axle.

Compressor block

Absolutely oil-free thanks to use of special bearings for piston drive gear and connecting-rod bearings, which are lifetime-lubricated with high-quality synthetic lubricants and sealed against contamination. Pistons feature PTFE guide and compression rings and rustproof, friction-free compressor valves. Compressor mounted on a base-plate with vibration dampers.