



Oil-free Compressor 2.0



The Knorr-Bremse oil-free compressor has created a paradigm shift in the rail industry. With no oil in the system, the compressed air output is clean and free of oil. The Knorr-Bremse oil-free compressor offers an outstanding combination of high performance, low vibration and noise levels, combined with worldwide field experience. Continuous technical improvement has now led to the next generation oil-free compressors.

CUSTOMER BENEFITS

- Service-proven product with more than 27,000 units sold
- Oil-free air is environmentally friendly and causes no downstream contamination
- No oil exchange, no disposal of used oil, no contaminated condensate to collect
- Specially optimized design to minimize noise and vibrations
- Cold starts without preheating, down to -50°C

APPLICATIONS

- High-speed trains
- Light rail vehicles
- Locomotives
- Metros
- Monorails
- Regional & commuter trains
- Special vehicles

KNORR-BREMSE



OIL-FREE COMPRESSOR 2.0 FEATURES

COOLING AIR GUIDING SYSTEM

- Improved cooling performance
- Temperature reduction of up to 20 °C



IMPROVED TRIBOLOGICAL SYSTEM

- Reduced friction within piston-cylinder system
- Significant reduction of wear



COMPRESSOR CONDENSATE REMOVAL SYSTEM

- Reduction of liquid condensate after the intermediate cooler
- Applicable for all climatic conditions



SINGLE-SIDED AIR INTAKE SYSTEM

- Filter exchange time reduction
- Improved air intake rain covers for reduced intake velocity



TECHNICAL DATA

Type	Air Delivery 50/60 Hz	Type	Air Delivery 50/60 Hz
VV40-T	255/315 l/min	VV180-T	1450/1750 l/min
VV80-T	435/520 l/min	VV270-T	2000/2400 l/min
VV90-T	530/625 l/min	VV450-T	3100 l/min
VV120-T	815/980 l/min	VV1000-T	4925/5925 l/min

KEY FEATURES

- Environmentally friendly design
- Designed for railroad applications
- Continuously improved product based on long-term worldwide experience
- Less complex system with fewer interfaces than conventional compressor systems
- Robust design for underfloor mounting conditions as well as for standing installation, roof-mounted or interior

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