

PISTONSUPPLY ECO SILENT

Reducing noise emissions of rail vehicles is becoming an increasingly high priority. The **PistonSupply Eco Silent** (VV-T Silent) offers an optimized sound profile, using innovative development and simulation methods, that have enabled Knorr-Bremse to achieve noise emission targets previously unattainable for a non-capsuled compressor. This compressor is the result of our ongoing commitment to reducing our ecological footprint, innovating, implementing technical improvements, and maintaining the highest quality standards.



Customer benefits

- Quietest compressor without soundproofing encapsulation ever supplied in this output range
- Sound pressure reduction of up to -15 dB(A)*
- The noise reduction of the Silent valve system is overproportional achieved in combination with an AirSupply Smart in Silent Mode
- Also includes all the features of the PistonSupply Eco (VV-T 2.0)



KNORR-BREMSE



Key features

- More robust design for harsh conditions
- Updated bearing system
- The new E-fan provides optimized bearing cooling airflow and a more homogeneous temperature distribution
- Reduced noise level with built-in E-fan and redesigned Silent valve system
- The noise reduction of the Silent valve system and E-fan is overproportional achieved in combination with an AirSupply Smart in Silent Mode



PistonSupply Eco Silent in detail

Inter/After cooler

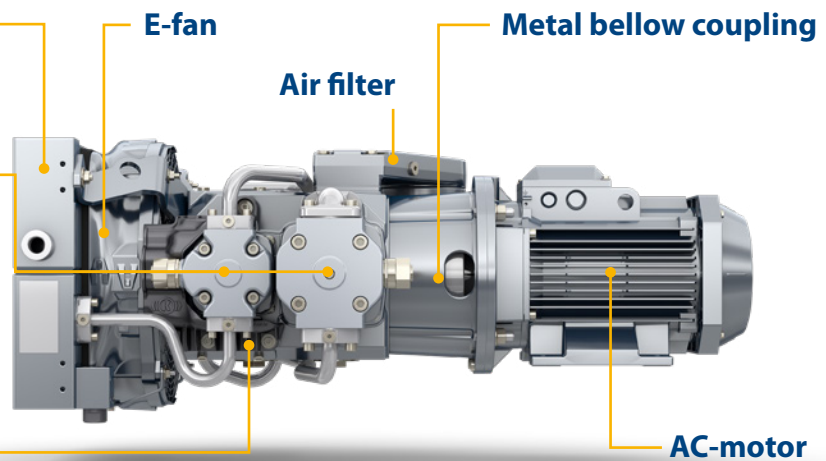
- Combined inter/after cooler
- Compressed air outlet

Silent valve system

- Improved sound behavior
- Reduced noise & improved acoustic quality

Crankcase

- 2x low pressure cylinders
- 1x high pressure cylinder
- Pressure, suction & safety valve
- Integrated crankshaft



Benefits of integration into AirSupply Smart

- **Boost Mode:** Increase the volumetric air flow of the compressor over its normal limits for a short period of time. This reduces the reservoir fill-up time always when it is needed or enables to downsize the compressor.
- **Downsizing Potential:** By using the Boost Mode it is possible to cover temporary demand peaks with a smaller or less compressors.
- **Silent Mode:** The compressor will be actively set to a lower rotation speed and reduces the noise emission whenever no high air demand is required, e.g. at night.



We offer a wide variety of compressors for multiple applications

- Regional & commuter trains
- Metros
- Light rail vehicles

Type	Air delivery 50 / 60 Hz
VV90-T	530 / 630 l/min

*A 6 db(A) reduction in sound pressure is equivalent to a 50% reduction

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