

# SCREWSUPPLY ECO

Discover the future of rail transport with our efficient and reliable **AirSupply Smart with ScrewSupply Eco**, reducing operating costs as well as lifecycle costs. With easy overhaul and maintenance, it minimizes interruptions and maximizes efficiency. Featuring an improved oil separation system, it offers an environmentally responsible solution for a sustainable future. Our compressor supports global rail industry trends, leading your company forward.



## Customer benefits

- Simplified service and maintenance friendly design that is easy to access
- New innovative oil separation system reduces Life Cycle Cost
- Overall lifecycle reduction by more than 40%
- Weight and installation space reduction due to new mechanical interfaces and housing
- Special electrical fan design for adaptive cooling protects parts from rapid wear and increases the reliability of the system
- Significantly reduced noise level
- Even more benefits with integration to AirSupply Smart



**KNORR-BREMSE**



## Key features

### New oil separation system

- Long exchange interval for the oil separator
- Low oil carry over
- Simple oil level check and handling

### New housing

- Optimized mechanical pre oil separator to increase the lifetime of the oil separation system
- Simulation based weight optimization of all casting parts leads to increased reliability and robustness

### New E-fan

- **Adaptive speed:** Demand-dependent control based on the temperature instead of continuous operation
- **Improved cooling performance:** Higher ventilation power combined with a homogenous cooling air distribution over the radiator
- **Accessibility:** Direct access to cooler for cleaning



## AirSupply Smart with ScrewSupply Eco in detail

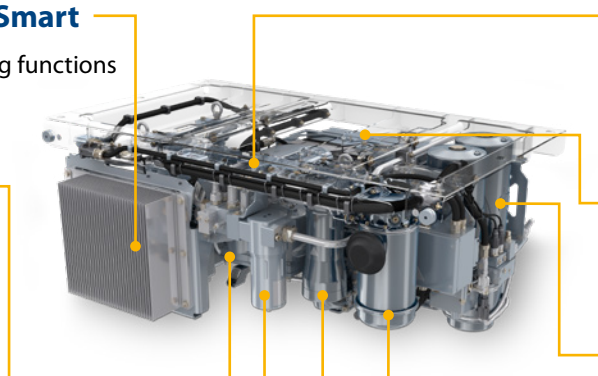
### New SupplyControl Smart

- Sensor based monitoring functions
- Predictive Maintenance

### Single service side

#### Easy maintenance for

- Air-oil separator
- Particle filter
- Oil filter
- Air filter



### New compact design & integrated coupling

### E-fan

### New DrySupply Compact



## 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
- **Silent Mode:** Set to a lower rotation speed and reduces the noise emission whenever no high air demand is required
- **Pantograph Mode:** Ability to use standard car battery with no additional effort on car builder side. No installation of auxiliary air supply unit needed. Without this and accessories means less weight and installation space
- Integrated **Condition Monitoring** with specialized imbedded algorithm judges sensor data



## We offer our ScrewSupply Eco for multiple applications

- High-speed trains
- Regional & commuter trains
- Metros
- Locomotives

Type	Air delivery 30 - 70 Hz
iASU SL2.0	950 - 2350 l/min

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