



# *AAR Locomotive Air Dryer LD-1000*



## **APPLICATIONS**

Locomotive

**KNORR-BREMSE**



# DESCRIPTION

The LD-1000 Air Dryer is suitable for use in AAR-type heavy-haul locomotives. It has superior pre-filtration for removing water and oil aerosols.

It is designed for 10-year intervals between overhauls, and the closed-loop regeneration control provides significant energy savings. The long service life and low energy consumption of this unit make for lifecycle cost advantages. Its form, fit, and function make it interchangeable with products from competitors.

## OPTIMIZED USE OF MATERIALS

- small envelope space
- low weight
- high-quality sealing
- single controller for all DC input
- compliant to REACH and ROHS directives

## ENHANCED MAINTAINABILITY

- annual maintenance can be complete trackside by one person
- service parts can be handled without lifting aid
- mean time to service less than 15 minutes
- mean time of replacement less than 2 hours
- inline moisture indicator for constant monitoring
- service parts poka-yoke

## IMPROVED TRAFFIC MANAGEMENT / SAFETY

- fail-safe under all environmental conditions and failure modes
- international Protection Marking level of IP69K
- reducing the risk of damage caused by accumulation of ice or snow
- layout of pressure equipment in accordance with ASME VIII

## LESS LIFECYCLE COSTS

- less lifecycle costs (up to 50%)
- 10-years main overhaul interval
- valve block designed as line replacement unit for trackside change

## INCREASED ENERGY EFFICIENCY

- significantly reduced regeneration losses due to closed-loop electronic variable purge
- maximum bed packing density (reduced envelope space)
- self-regulating PTC heaters

## REDUCED EMISSIONS

- sound pressure less than 80 dB(A) at 3 m
- high-efficiency water separator
- designed to meet NFF 11-100 (Class 2) railway standards
- micron filter efficiency 99.7%
- reduced waste: desiccant bed lasts full 10 years

Disclaimer: We have prepared the product description with due care but cannot exclude any errors. The product description does not contain any warranty or guarantee, in particular neither regarding correctness, accuracy and completeness of contained information nor regarding quality, negotiability, adequacy for certain purposes and compliance with laws and patents of described products.