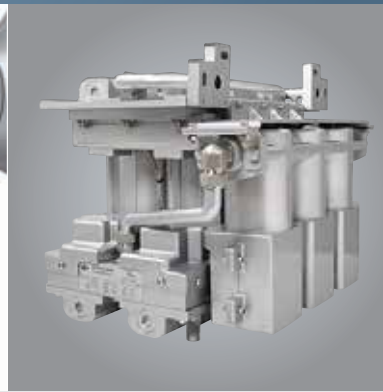




LD-1000 Air Dryer System



APPLICATIONS

Conventional locomotives | Heavy haul freight locomotives

KNORR-BREMSE



LD-1000 AIR DRYER SYSTEM



A HIGH QUALITY AIR DRYER IN THE LOCOMOTIVE AIR SUPPLY SYSTEM – RESULTS IN A MORE RELIABLE BRAKE SYSTEM

MAIN REASONS FOR AIR TREATMENT

In an industry where safety and performance are paramount, reliability and on-time arrival are key demands of both passenger and freight rolling stock. Oil and water are natural enemies of brake system reliability.

WATER

Air can hold a significant amount of water vapor that increases exponentially with temperature. Conversely, as temperatures drop, air's capacity to hold water vapor similarly drops exponentially. The result – water vapor condenses into liquid.

OIL

Locomotive compressors that are lubricated with oil can contaminate the air system with oil carry-over. The carry-over can lead to abrasive contamination, rubber degeneration, cause damage to seals and valves, and result in malfunction.

Water and oil vapor can shorten the useful life of the brake system, result in train delays, and cause unscheduled maintenance and costly repairs due to contamination and freeze-ups.



PROVIDING CLEAN, DRY AIR WITH BEST-IN-CLASS LIFE-CYCLE COSTS, THE LD-1000 AIR DRYER INCREASES THE AVAILABILITY OF THE ENTIRE TRAIN SYSTEM.

CUSTOMER BENEFITS

- 10-year main overhaul interval
- State-of-the-art solution for heavy haul freight locomotives
- Greater than 72 °F (40 °C) dew point depression at 150 psi (10.3 bar), 100 °F (37.8 °C) and 100 scfm (2,830 l/min)
- Operating pressure range 75 to 160 psi (5.2 to 11.0 bar)
- Operating temperature range -40 °F to 158 °F (-40 °C to 70 °C)
- Operating voltage range 50 - 140 VDC
- Efficient variable purge control
- Superior pre-filtration for removal of oil vapor and bulk water
- Designed for underfloor installation, rated to International Protection Marking IP69K

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