

SYSTEM SAVER SERIES

ELECTRONICALLY CONTROLLED AIR DRYER



WABCO

ELECTRONICALLY CONTROLLED AIR DRYER



WABCO air processing systems are designed and engineered to set standards in quality, reliability and durability. Our Electronically Controlled Air Dryer (ECAD) is controlled by the vehicle's Electronic Control Unit (ECU) and features a simple, robust and lightweight design that delivers intelligent drying and processor control.

Pressure control and regeneration function is controlled by the ECU via two solenoid valves attached to the air dryer. The ECU evaluates vehicle information, including system pressure, engine speed and air supply. Diagnostic messages for the air dryer are communicated to the driver through warning lights.

All in all, the ECAD means peak performance, optimum fuel savings, increased uptime and lower service costs – long-standing hallmarks of WABCO products.

REGENERATION CONTROL

Air dryer desiccant regeneration takes place via the air system. No separate purge reservoir is required, reducing weight and potential leak paths.

The system allows for intermediate smart regenerations during long pumping cycles. The ECU recognizes them and then initiates an intermediate regeneration to ensure optimal drying during the whole delivery cycle.

WABCO coalescing desiccant cartridges, combined with controlled regeneration, provide improved performance over standard air dryers.

INTELLIGENT COMPRESSOR CONTROL

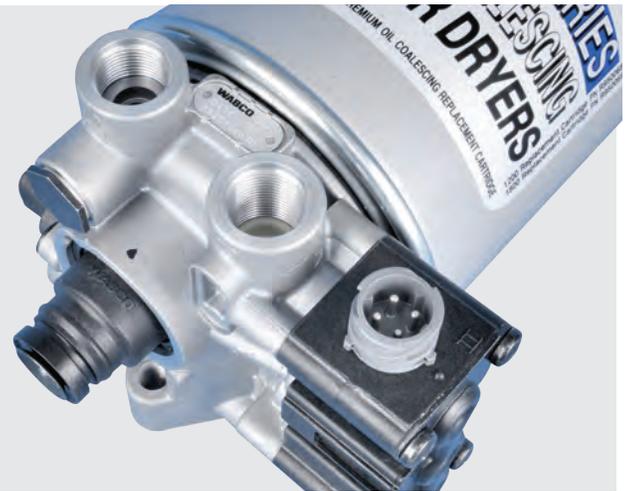
- Potential fuel savings can be achieved when combined with control software
- System pressure is dynamically adjusted to driving conditions; cut in/out are set within the program
- Dryer inlet temperatures are reduced, allowing for more efficient air drying
- When combined with control software, there is potential for the compressor to be immediately activated when the air suspension requires air

INTELLIGENT DRYING

With the WABCO ECAD, regeneration is determined by delivered air volume:

- Monitoring air use allows regeneration only when needed
- Monitoring of dryer working cycles and flow rates allows for tracking of cartridge life and recommended servicing

Two solenoid valves, controlled by the vehicle ECU, take over the pressure control and regeneration functions.



The ECAD not only dries air, but also greatly reduces the risk of damage to the braking system and components from oil contamination, reducing service costs.



OTHER KEY FEATURES

- Similar in size to standard WABCO System Saver 1200 air dryers
- Coalescing filter for extended brake system life
- Uses most of the same service kits as the System Saver 1200 air dryers
- Electrical solenoids are packaged as an assembly for easy diagnosis
- Common WABCO three-bolt mounting pattern
- Cartridge change requirement is programmed from the ECU



ELECTRONICALLY CONTROLLED AIR DRYER (ECAD)

The WABCO ECAD offers a number of advantages compared to conventional air dryer systems. Its electric air dryer includes two solenoid valves which facilitate pressure control and regeneration. To control the ECAD, the vehicle's electronic control unit (ECU) compiles relevant information for air drying, such as line pressure, engine speed, engine operating time, road speed and ambient temperature. With intelligent regeneration control, intermediate regenerations take place during long delivery cycles, based on delivered air volume. Regeneration takes place from the system reservoir volume, with no separate regeneration reservoir required.

**For further product details contact your distributor or the
WABCO Customer Care Center at 855-228-3203.**

WABCO (NYSE: WBC) is a leading global supplier of technologies and services that improve the safety, efficiency and connectivity of commercial vehicles. Founded nearly 150 years ago as the "Westinghouse Air Brake Company," WABCO continues to pioneer breakthrough innovations for advanced driver assistance, braking, stability control, suspension, transmission automation and aerodynamics. WABCO reported sales of \$3.3 billion in 2017 and has 15,000 employees in 40 countries. For more information, visit:

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