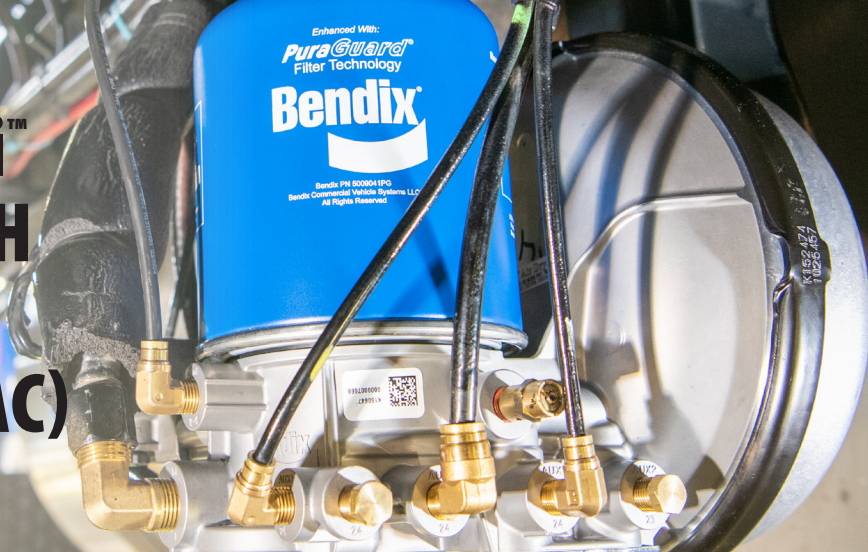


BENDIX® AD-HFi™ AIR DRYER WITH ELECTRONIC AIR CONTROL (EAC)



Designed with Fleets in Mind

Reduced maintenance and lowest total cost of ownership (TCO) are critical to your fleet. The Bendix® AD-HFi™ air dryer with electronic control enables more dry air processing, contributes to energy efficiency, and provides diagnostic capabilities. The AD-HFi dryer also incorporates field-serviceable pressure protection valves that can be changed out quickly if needed.

The Bendix AD-HFi unit expands the capabilities of our AD-HF® air dryer by adding electronic pressure control, utilizing a solenoid-operated valve that replaces the traditional Bendix® D2® mechanical governor. The solenoid is controlled by Bendix's proprietary Electronic Air Control (EAC) software. The EAC software can be hosted by either by a Bendix standalone controller or via a Bendix® EC-80® for PACCAR applications.



The Benefits of Electronic Air Pressure Control

A traditional air dryer operates between a range of two fixed pressure set points controlled by a mechanical governor. While this method is simple and reliable, it's unable to adapt to dynamic air demands, help improve fuel efficiency, or provide diagnostic capability.

EAC software monitors air pressure, engine torque, and engine RPM on the J1939 CAN while the electronic controller energizes a solenoid-operated valve mounted directly to the AD-HFi air dryer. Electronic control of the air dryer provides a number of benefits:

- Applicable in a wider range of applications by processing more dry air than a standard dryer.
- Improved fuel efficiency by optimizing the charging cycle.
- Delivers diagnostic information regarding compressor duty cycle, as well as the approximate remaining life of the air dryer cartridge.

Improved Air Processing

A traditional air dryer cycles between two fixed pressure points, but the Bendix AD-HFi air dryer with EAC can manage the charge cycle based on both air system and engine demands.

- EAC software has default parameters for cut-in (the lowest air pressure threshold at which the compressor is loaded to build pressure) and cut-out (the higher air pressure threshold at which the compressor unloads). These default values can be software adjusted to optimize air processing.



- If the proprietary Bendix® Electronic Air Control (EAC) software determines that the air system requires extra drying capacity, the AD-HFi™ dryer can perform additional short purge cycles called Interrupted Charge Regeneration (ICR). This enhanced purge capability provides significantly more dry air for vehicles that consume more air than a standard air dryer can normally process.
- EAC software also helps contribute to increased fuel efficiency, up to 0.5%, by optimizing the charge cycle to match the engine's power demands. The Overrun (OVR) function temporarily increases the cut-in and cut-out pressures when the vehicle has power to spare. The Overtake (OVT) function decreases the cut-in and cut-out pressures when there is higher torque demand on the engine.

Easy to Understand Diagnostics

Electronic Air Control provides air dryer-related status messages on the J1939 CAN. With its diagnostic capability, EAC monitors higher than expected air demands, which can be an indicator of excessive compressor duty cycle or air system leaks.

100% Oil Coalescing Cartridge & Cartridge Life Prediction

Bendix® AD-HF® & AD-HFi air dryers utilize PuraGuard® oil-coalescing technology. PuraGuard filtration removes harmful oil aerosols and helps prevent costly component failures that rely on clean, dry air. Featuring a new 41mm spin-on mounting thread, the AD-HFi unit is designed to maintain original OEM specifications and protect your air system from harmful contamination. When servicing, note that Bendix AD-HF and AD-HFi air dryers must be replaced with PuraGuard oil coalescing cartridges to maximize air system protection.

The EAC monitors regeneration cycles and the amount of air processed during the service life of the cartridge. Featuring Cartridge Life Prediction (CLP), our powerful software uses these values, along with a specified compressor output, to determine when it's time to replace the air dryer cartridge. A simple value change in the Bendix® ACom® PRO™ diagnostic software will then reset the cartridge life percentage after service.

Industry Leading Warranty with Bendix® Total Air Guarantee (TAG)

Any new truck supplied with the Bendix® AD-HFi air dryer is eligible for the Bendix® Total Air Guarantee warranty. TAG extends the warranty of Bendix air brake valves, including ABS, for 3 years or 350,000 miles when installed as original equipment on the same vehicle. Download BW1716 from the Bendix document library on bendix.com for additional details.

AD-HFi Air Dryer Specifications

Envelope:	11.3" H x 10.5" W x 11.7" D
Weight:	Standard purge 19 pounds, extended purge 21 pounds
Heater:	12V or 24V
Purge volume:	Standard purge 200 in3 & extended purge 300 in3
Mounting:	SAE 4-hole thread pattern, 3/8"- 16 UNC bolts
Warranty:	3 years/350,000 miles*
Solenoid voltage:	12
Solenoid current:	.5 amp at 12VDC
Turbo cut-off valve:	Standard
Cartridge replacement:	Bendix part number 5009041PG
Cartridge service interval:	See Bendix service data sheet SD-08-12046

** Spin-on cartridge, purge valve and pressure protection valves are considered service items that may need to be replaced during normal operation. Standard warranty policies apply.*



The Bendix® AD-HFi™ air dryer is the highest performance air supply solution for commercial vehicles. For more information, contact your Bendix Account Manager, call 1-800-AIR-BRAKE or visit bendix.com

