

# AIR SYSTEM PROTECTOR PLUS

Air Dryer Cartridge  
with Coalescing Filters

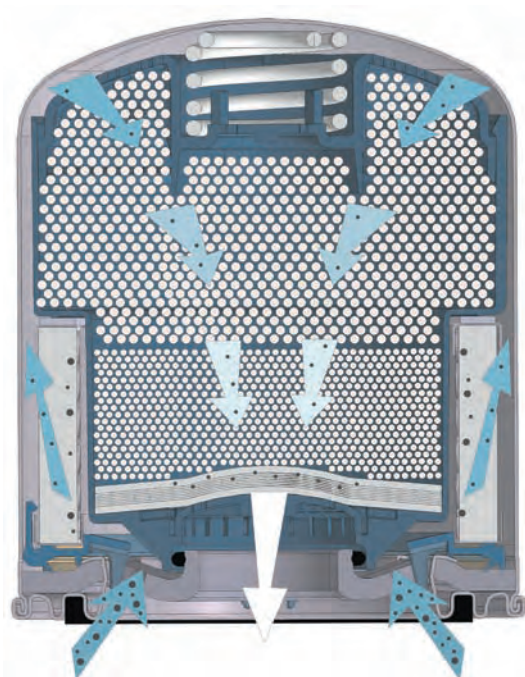


- Best drying **PERFORMANCE** with optimized design and new dual desiccant **TECHNOLOGY**
- Unique **DOUBLE FILTER** technology combining oil coalescing filters before and after the desiccant
- Recommended **EXCHANGE** interval extended by **50%**
- Applicable for **ALL VEHICLES**: a “must have” for vehicles with high air consumption

**WABCO**

# The new generation of air brake system protection

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## EXPERIENCE A NEW GENERATION OF AIR BRAKE SYSTEM PROTECTION

- **Double filter technology:** unique combination of oil coalescing filters before and after the desiccant bed ensuring optimal separation of large oil droplets and fine aerosols
- **More desiccant:** newly designed inner container allowing more desiccant in the space available
- **Two layers of desiccant:** use of two different desiccant characteristics ensuring maximum drying performance

# Robust design for best performance



## BENEFITS

To improve safety, robustness and efficiency of commercial vehicles, WABCO developed the new Air System Protector <sup>PLUS</sup> (ASP <sup>PLUS</sup>). It offers maximum protection of the air brake system against oil, water and aerosols. With a recommended exchange interval of three years under normal conditions and the highest air drying performance, the ASP <sup>PLUS</sup> sets a new standard in the cartridge market.

### Increased safety and robustness

- The double filter technology – filtering BEFORE and AFTER the desiccant materials – protects the entire brake system against oil, water and aerosols

- The additional volume of desiccant material and the use of two desiccants with different characteristics will ensure best drying performance and prevent freezing or corrosion
- Stable drying and optimal oil separation performance is ensured over the exchange interval of the cartridge

### Less maintenance and repair cost

- The optimal separation of harmful oil substances extends the cartridge exchange interval to three years under normal conditions, which represents an improvement of 50%

### Versatility

- Applicable for mechanical and electronic air dryers

## APPLICATIONS

The ASP <sup>PLUS</sup> provides the most advanced air brake system protection for all vehicles in the market. In particular, the ASP <sup>PLUS</sup> is a “must have” for vehicles with HIGH AIR CONSUMPTION like city buses, distribution and waste collection trucks as well as forestry, tank, construction and other special applications.

# Different cartridges for different needs



## A COMPLETE RANGE OF AIR DRYER CARTRIDGES FOR ALL TYPES OF APPLICATIONS

APPLICATION	MILEAGE	AIR CON-SUMPTION	WABCO Recycling Cartridge	WABCO Cartridge	WABCO ASP	WABCO ASP PLUS
Long distance bus	low	low	✓	✓	✓✓	✓✓
Long distance bus	high	low	✓	✓	✓	✓✓
Long distance truck	low	low	✓	✓	✓✓	✓✓
Long distance truck	high	low	✓	✓	✓✓	✓✓
Truck/Trailer combination	low	medium	✓	✓	✓✓	✓✓
Truck/Trailer combination	high	medium	✓	✓	✓	✓✓
Dump truck	low	low	✓	✓	✓✓	✓✓
Dump truck	high	low	✓	✓	✓✓	✓✓
City bus	low	high			✓	✓✓
City bus	high	high			✓	✓✓
Distribution truck > 7,5 t	low	medium			✓	✓✓
Distribution truck > 7,5 t	high	high			✓	✓✓
Waste collection truck	low	high			✓	✓✓
Waste collection truck	high	high			✓	✓✓
Special vehicles (forestry, tank, construction)	low	high			✓	✓✓
Special vehicles (forestry, tank, construction)	high	high			✓	✓✓

PERFORMANCE						
Drying performance				+	++	++
Oil separation efficiency					+	++
Aerosol separation efficiency					+	++

PART NUMBERS						
Up to 13 bar. Thread M 39x1.5. Right Hand Thread			432 410 222 7			
Up to 13 bar. Thread M 39x1.5. Right Hand Thread				432 410 020 2		
Up to 20 bar. Thread M 42x1.5. Right Hand Thread				432 410 220 2		
Up to 13 bar. Thread G 1 1/4". Right Hand Thread				432 415 220 7		
Up to 13 bar. Thread G 1 1/4". Right Hand Thread. Hexagon head SW 30				432 410 927 2		
Up to 13 bar. Thread M 39x1.5. Right Hand Thread					432 901 223 2	
Up to 13 bar. Thread M 39x1.5. Left Hand Thread (Available from 2nd half of 2010)					432 901 245 2	
Up to 13 bar. Thread M 41x1.5. Right Hand Thread (Available from 2nd half of 2010)					432 901 246 2	
Up to 13 bar. Thread G 1 1/4". Right Hand Thread. Hexagon head SW 30					432 901 228 2	
Up to 13 bar. Thread M 39x1.5. Right Hand Thread						432 410 244 2

All cartridges applicable for mechanical and electronic air dryers.  
Return used cartridges to WABCO and help save the environment.

WABCO Vehicle Control Systems (NYSE: WBC) is a leading supplier of safety and control systems for commercial vehicles. For over 140 years, WABCO has pioneered breakthrough electronic, mechanical and mechatronic technologies for braking, stability and transmission automation systems supplied to the world's leading commercial truck, trailer and bus manufacturers. With sales of \$1.5 billion in 2009, WABCO is headquartered in Brussels, Belgium. For more information, visit [www.wabco-auto.com](http://www.wabco-auto.com)