

e-comp | electrically driven  
compressor



- **INDEPENDENT** electrically driven compressor with possibility of **SMART** control
- An effective **AIR SUPPLY** solution for brakes and other air demands in vehicles with **HYBRID** drivelines
- Can be positioned **SEPARATELY** from the **ENGINE**

# Environmentally-friendly and economic electric driven air supply for vehicles with hybrid driveline



## Reliable, proven technology with fewer components

The new generation of vehicles with hybrid drivelines typically features internal combustion engines which are too small to allow a conventional compressor to be flanged to them.

In addition, some applications require the vehicle to drive only in electrical mode for some hundreds of meters. As the combustion engine is shut off during these periods a conventional flanged compressor would be unable to deliver air.

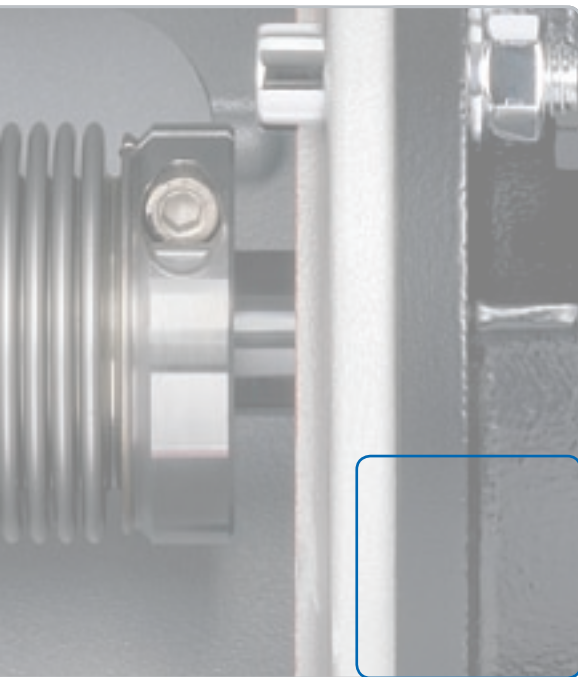
Furthermore, high air consumption – for example, in city bus applications – requires high air delivery in short time to ensure acceptable duty cycles.

### THE WABCO E-COMP PROVIDES AN EFFICIENT SOLUTION FOR THESE VEHICLES

■ **Environmentally-friendly:** The smart control of the WABCO e-comp offers the possibility to run the e-comp only when air delivery is required or in case of useful overrun phases. The rest of the time, the WABCO e-comp can be shut off and it has zero energy consumption. Therefore, it is an effective complement to vehicles with a hybrid driveline for minimizing fuel consumption. In addition, the improved working conditions of the compressor minimize the pollution of the air system with oil products.

■ **Economic:** The modular concept of the WABCO e-comp enables an individual combination of different electrical motor sizes with various WABCO worldwide modular compressors. Therefore, the WABCO e-comp can be customized for all vehicle requirements choosing the most suitable swept volume from the robust WABCO compressors range.

# Electrical Rivelines



- **Electrical:** As the WABCO e-comp is driven by an electrical motor, it is completely independent from the vehicle drive-train. This provides flexibility for placement in the vehicle where electrical interface and pressure line are available. The smart control of the electrical motor enables the WABCO e-comp to meet immediate operating needs combining efficient energy management with excellent robustness.

General	
Low noise emission	<72 dB(A) SPL 1m @ 1500 rpm and 12.5 bar
Weight	< 60 kg
Different WABCO series compressor and standard e-motor combinations possible	
Ambient temperature range	-40°C - +65°C
No power consumption during compressor idle	
Box dimensions [mm] (L x W x H)	755 x 355 x 400

Electrical	
Input	300-750V DC or AC
Different e-motor types available	
Motor speed	0-2500 rpm (variable)
Control and status information, optional via CAN bus or 0-10V / 4-20 mA (depends on converter used)	

Compressor	
WWM compressor concept allows individual combinations	
FAD 580 l/ min (max) at	12.5 bar
Continuous duty cycle	0-60%
Oil carry over: OCO	< 0.3 g/h
Own oil circuit, standard motor oil or special compressor oil can be used	
Exhaust air temperature	< 100°C



## THE WABCO E-COMP OFFERS THE FOLLOWING BENEFITS

- A smart, advanced and robust energy-saving solution capable of using energy stored in high-voltage batteries
- Reduced duty cycles compared to conventional flanged compressors due to independent variable compressor speed and a high FAD even at 12.5 bar
- Safety enhanced through improved reliability in hybrid vehicle applications
- No energy consumption during compressor idle phases
- Reduced wear and tear because compressor working conditions are better than in standard systems
- Reliable performance also at minus ambient temperatures (-40°C - +65°C)
- Easy maintenance as the compressor part of the unit runs with standard motor oil
- Reduced level of oil products in the air system
- Low vibration in the vehicle due to optimal vibration absorption

## FEATURES

Additional Options:

- CAN controlled electronic converter
- Complete package including an E-APU and electronic converter
- Smaller one cylinder versions, air cooled only

When buying a WABCO product, please check that it contains the typical WABCO marks (particularly on the packaging, labels and identification plate) as evidence that it is an original WABCO part. In case you have any doubts, please contact WABCO or an authorized WABCO partner.

WABCO Vehicle Control Systems is one of the world's leading providers of electronic braking, stability, suspension and transmission automation systems for heavy duty commercial vehicles. Customers include the world's leading commercial truck, trailer, and bus manufacturers. Founded in the U.S. in 1869 as Westinghouse Air Brake Company, WABCO was acquired by American Standard in 1968 and spun off in 2007. Headquartered in Brussels, Belgium, WABCO employs more than 7,700 people in 31 countries worldwide. In 2007, WABCO's total sales were \$2.4 billion. WABCO is a publicly traded company and is listed on the New York Stock Exchange with the stock symbol WBC.

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