

c-comp

Air Compressor with
Integrated Clutch



- Highly **EFFICIENT** compressor with fully **INTEGRATED CLUTCH**
- Full compressor drive disengagement offers significant **ENERGY SAVINGS**
- **MORE ENGINE POWER** available during compressor idling
- **INCREASES DRIVER'S COMFORT** and benefits the **ENVIRONMENT**



WABCO

Maximum annual fuel savings for a typical long haul application (150,000 km/yr) with c-comp



HIGHLY EFFICIENT COMPRESSOR

The WABCO c-comp is an air compressor with integrated clutch. It has a simple on-off control and only draws power from the engine in pumping phase, switching off completely during the long off-load phase. This reduces the compressor's overall fuel and energy demand. A pneumatic signal is used to engage and disengage the clutch.

The WABCO c-comp builds on field proven WABCO Worldwide Modular (WWM) design principles, making it highly customizable. The multi-disk clutch can be integrated in single and twin cylinder compressors, both naturally aspirated and with turbocharged inlet air. Situated between the drive gear and crankshaft, the c-comp clutch is integrated into the compressor crankcase, requiring minimal additional built-in space of approximately 15 mm.

SIGNIFICANT ENERGY SAVINGS

The WABCO c-comp clutch disengages the compressor when no air is needed, generating fuel savings of up to 1,000 liters over 150,000 km of long haul operation per year. Therefore, the WABCO c-comp is most effective on long haul commercial vehicles where braking frequency is very low, resulting in limited demand for compressed air.

MORE ENGINE POWER

Up to 8 kW more engine power is available when the compressor is disengaged by the clutch.

INCREASES DRIVER'S COMFORT AND BENEFITS THE ENVIRONMENT

Because the WABCO c-comp is fully disengaged during off-load, overall noise emissions are reduced. Less wear, less oil carryover and lower carbonization further increase the reliability of this maintenance-free clutch compressor and the entire air brake system. Reduced overall noise emissions and less oil carryover also contribute to environmental sustainability.

CHOOSE WABCO C-COMP AND BENEFIT FROM:

- Annual fuel savings of up to 1,000 liters
- Reduced maintenance costs due to lower carbonization
- Enhanced driver comfort due to lower noise emission
- More engine power for acceleration during compressor off-load phase
- Additional fuel savings in conjunction with WABCO's new FuelGuard (Electronic Air Processing Unit)

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

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