

TX01

ELECTRIC AIR COMPRESSOR



Next Generation Compressor Technology for Hybrid, Fully Electric & Fuel Cell Vehicles

The market and our customer's needs are always evolving and new vehicles now demand more from their ancillary components when compared to traditional drivetrains. Gardner Denver's engineers have re-interpreted what's possible from an on-board compressor and have delivered something truly exceptional with the introduction of the NEW TX01.

This is the latest evolution in the TX series: A range of compressors specifically designed for the electrified bus and truck market. Building on fifty years' experience with mobile applications and a decade of dedicated knowledge with new vehicle technologies, the TX01 delivers outstanding performance in the most compact and lightweight package available on today's market.

Both OEMs and operators are under increasing pressure to implement more environmentally friendly ways to travel. Hybrid, fully electric and fuel cell vehicles are driving society towards zero-carbon. The significant emissions cuts needed along the way will only be possible with the support of cutting-edge ancillary systems. This is where the TX01 comes into its own.

- Quiet By Design
- Small Footprint
- Lightweight
- Easily Integrated

Technical Information

Flow Range:

160 to 380 l/min

Pressure Range:

Up to 12.5 bar as standard
& 13.5 bar as optional

Voltage Options:

600v (500-820v) as standard & 400v
(150-470v) as optional

Final Oil Content:

(mg/m³) <3.6

Ambient Temperature Range:

-40°C to +65°C

Speak to our Experts Today



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Applications

Compressed air plays a fundamental role in pneumatic door operation, vehicle suspension systems, as well as in the safe operation of central braking systems. Gardner Denver Transport Solutions provides Air System Modules (ASM) for some of the most sophisticated transit applications. Some of these include:



Medium and large sized trucks



Full-size single-decker & double-decker buses, articulated buses & Bus Rapid Transport (BRT) systems



Door-to-door distribution vehicles



Features & Benefits

Compact & Lightweight Package

Compressed air is critical for pneumatic brakes, suspension and door operation systems among other applications in larger commercial vehicles. It's also needed for kneeling systems on commercial buses. Many compressors available today are based on older technology, which is not only noisier and heavier but also reliant on a larger capacity cooling system. These older products cost far more to run and maintain when compared to the more efficient TX01.

Quiet & Vibration-Free Operation

Electric vehicles highlight the impact of sound from other important vehicle components. Compressors are no different, and poorly designed packages can have a negative impact on both driver and passenger comfort. Loud equipment can also affect residents, especially when refuse collections are carried out using electric vehicles during unsociable hours.

How can manufacturers respond to this challenge while still maintaining optimal performance?

The TX01 solves this problem with proven rotary vane technology and guaranteed pulse-free delivery which eliminates unwanted vibrations. Despite being capable of running at variable speeds between 1400 to 3500rpm, the unit can deliver a free field noise level of 69dBA and below at one-metre distance. This means it can be installed adjacent to the passenger cabin with no loss of comfort. These kinds of incremental changes may sound small but have a profound impact on overall performance when out on the road.

Simple Installation & Maintenance

Due to its modular design, installation can occur with minimal disruption to your operations, with TX01's improved software and electrical capabilities allowing it to work seamlessly with a vehicle's architecture. The TX01 is reliable by design, and our engineers have ensured the unit is simple to maintain in the field.