

TM 182.01

Piston compressor for TM 182



Learning objectives/experiments

- in conjunction with trainer TM 182:
 - ▶ generating vibrations on machine foundations with a “real machine”

Specification

- [1] air-cooled single cylinder piston compressor for installation in trainer TM 182
- [2] compressor as vibration generator
- [3] vibration generator simulates machine vibrations
- [4] speed adjustable using frequency converter

Technical data

Air-cooled single cylinder compressor with frequency converter

- mass: 16kg
- speed: 500...1800min⁻¹

230V, 50Hz, 1 phase
 230V, 60Hz, 1 phase
 120V, 60Hz, 1 phase
 UL/CSA optional
 LxWxH: 420x300x300mm
 Weight: approx. 22kg

Scope of delivery

- 1 piston compressor with frequency converter

Description

- as a “real machine”, the piston compressor generates vibrations for the trainer TM 182

A piston compressor is a typical machine, on which imbalance and oscillating masses generate vibrations. Balancing the “machine” does not adequately reduce these vibrations. In this case, a vibration isolating machine foundation helps to avoid unwanted vibrations from being transmitted to the surroundings.

The TM 182.01 compressor is used as a model of a “real machine” for the trainer TM 182. The compressor is only used here as a “machine” that generates vibrations on the foundation. The compressed air generation function is not used.

The TM 182.01 is available as a complete assembly and consists of a single cylinder compressor with integrated motor. To generate vibrations with different frequencies, the compressor is fitted with a frequency converter.

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Required accessories

TM 182 Vibrations on machine foundations