

the compressor is set on. The air is sucked into the intake vessel, where it settles before it is compressed inside the compressor. The compressed air is then delivered to a pressure vessel and is available as a working medium. To set a steady flow-operating mode, the compressed air can be discharged over a blow-off valve with a silencer. A pressure switch with a solenoid valve for limiting the pressure and a safety valve complete the system.

FEATURES:

- setup and operating behavior of a compressed air generation system with single-stage piston compressor
- determination of the characteristic curve
- determination of the volumetric efficiency
- determination of the mechanical efficiency

SPECIFICATION:

Compressor, 1 cylinder, single-stage

- power consumption: 750W
- nominal speed: 980min-1
- positive operating pressure: 8bar
- pressure: 10bar
- intake capacity: 150L/min at 8bar
- borehole: 65mm
- stroke: 46mm

Safety valve: 10bar

Pressure vessel

- 16bar
- volume: 20L

Intake vessel: 20L

Measuring ranges

- temperature: 1x 0...200°C / 1x 0...100°C
- pressure: 0...16bar / -1...1bar
- flow rate: 0...150L/min
- speed: 0...1000min-1

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase



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