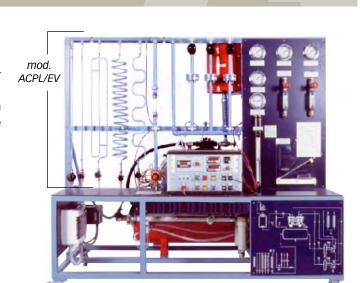
VARIABLE SPEED PISTON COMPRESSORS STUDY UNIT

Mod. VC-P/EV



INTRODUCTION

The unit allows to study the main features of single-stage air compressor.

The wheeled bench is equipped with a front panel, on which are placed the devices and all necessary tools to carry out the tests.

TRAINING PROGRAM

- System start up
- Inlet and Outlet compression temperatures measurement
- Inlet Compressor air flow rate measurement
- · Power and efficiency of an alternative compressor
- · Air flow rates with unified throttling devices measurements
- · Compressor performance at variable speed

TECHNICAL SPECIFICATIONS

Two-cylinder reciprocating single stage compressor, driven by a belt drive from an electric motor c.a. with frequency variator:

- · Vacuum gear and pilot valve
- Supply check valve
- Flow rate: 260 l/min (referred to the suction conditions)
- · Max delivery pressure: 9 bar
- Rpm sensor

Air tank:

- · Capacity: 100 I
- 0÷10 bar dial gauge
- 1÷9 bar adjustable pressure switch, for compressor insertion and deactivation
- Safety valve
- Exhaust valve

Device for measuring the air flow aspirated by the compressor:

- Calibrated flange mounted on damping vessel
- Differential micromanometer with inclined scale for measuring the differential pressure at the flange

Electric control panel:

- Digital multimeter to measure: voltage, current and power drive motor
- N. 2 digital thermometers for instant reading of the temperature
- Differential magnetothermal switch
- Voltage presence warning lamp

Power supply: 230 Vac 50 Hz single-phase - 2,2 kVA

(Other voltage and frequency on request)

Dimensions: 2100 x 950 x 2000 (h) mm

Net weight: about 100 kg

REQUIRED

UTILITIES (PROVIDED BY THE CUSTOMER)

• Tap water: 600 I/h, 2÷3 bar

SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK



OPTIONAL

UNIT FOR THE STUDY OF PRESSURE LOSSES IN COMPRESSED AIR CIRCUITS Mod. ACPL/EV

