

Product Name :
Vehicle Air Conditioning Simulator

Product Code :
TK144



Description :

Vehicle Air Conditioning Simulator

Technical Specification :

Vehicle Air Conditioning Simulator

Investigation of a typical vehicle air conditioning system for cooling the vehicle interior

Compression refrigeration system with compressor, condenser, filter/drier, expansion valve and evaporator

Electric motor with variable speed as compressor drive

Condenser with fan

Evaporator as air cooler with three-stage fan

Compressor drive via v-belt and magnetic coupling

Simulation of 8 faults via buttons in the connectable box

System is switched on via ignition lock

Display of temperatures, pressures (refrigerant), flow rate (refrigerant), pick-up current, speed

Refrigerant r513a, GWP: 631

Air conditioning system voltage supply: 12VDC

Technical data:

Electric motor

Rotary current motor

Variable speed via frequency converter: 500...3000min⁻¹

Power: 4kw at 3000min⁻¹

Axial piston compressor

refrigeration capacity: 3kW at 3000min⁻¹

Condenser: capacity: 6,6kW
Evaporator: capacity: 5,3kW
Refrigerant
R513A
GWP: 631
Filling volume: 800g
CO2-equivalent: 0,5t

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