

Product Name :
Emission Control

Product Code :
TK122



Description :

Emission Control

Technical Specification :

Emission Control

The combustion of the fuel inside the cylinders of an engine is, usually, incomplete. The more it is incomplete, the bigger is the emission of noxious components which can be found in the exhaust gases from the engine. To reduce environmental pollution, it is necessary to improve the efficiency of the engine for what concerns the exhaust gases. This simulation panel deals with the study the techniques used for the reduction of the noxious emissions in the car.

Main Characteristics

It is possible to simulate:

Composition and control of the exhaust gases in the Otto cycle based engines

Combustion products

Preparation and control of the fuel and operating conditions

Adaptation to the operating conditions

Lambda regulation

Recirculation of the exhaust gases

Anti-evaporation of the fuel

Catalytic thermal post-combustion

Analysis of the exhaust gases in the Otto cycle based engines: test cycles

This vertical frame bench-top trainer is specially designed to show to students how automotive systems work.

The simulator consists of a panel operated by the support of a computer with a colored silk-screen diagram that

clearly shows the structure of the system and allows the location of the components on it. The display of the information available on the computer screen allows the continuous control of the educational system. The operational conditions can be entered by the students and the insertion of faults can be carried out through the computer by the teacher. The trainer is supplied with a CAI Software and the supported documentation guides the students to the study and the performance of the simulation exercises.

General Characteristics:

Dim. mm (Height x Length x Width): 700x1000x150 - (470 with the base)

Weight kg 25

Input power supply: AC 220V \pm 10% 50 Hz

Working temperature: -40 $^{\circ}$ C ~ +50 $^{\circ}$ C.

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