



THE LAB EQUIPMENT

Email : sales@thelabequipment.com

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Product Name :

Computerized Reciprocating Pump Test
Apparatus

Product Code :

SLE/MCE/49





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Description :

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- The test rig consists of a closed water circuit with water tank, a piston pumps with variable speed via a frequency converter and an air vessel.
- The position of the piston rod is measured by an angle sensor.
- This allows the determination of the cylinder volume.
- The pulsating pressure curve of the pump can be damped with the aid of the air vessel.
- Flow rate and head are adjusted via a needle valve and overflow valve.
- The experimental unit is fitted with sensors for pressure and flow rate.
- The microprocessor-based measuring technique is well protected in the housing.
- The piston of the pump is mounted in a transparent housing and can be observed during operation.
- The cycle that takes place (intake and discharge of water) can be shown clearly in the p-V diagram.
- One pressure sensor measures the pressure at the outlet of the pump; another one measures the pressure in the inside of the cylinder.
- The measured values are transmitted directly to a PC via USB where they can be analyzed using the software included.

Specification:

- **Piston pump Speed:** 30...180min⁻¹
- **Max. Flow rate:** 135L/h
- **Max. Head:** 40m
- **Drive motor Power:** 180W
- **Gear transmission ratio:** 1=7,5
- **Dimensions:** 670x590x740mm
- **Weight:** 49kg (approx.)

Measuring ranges:

- **Pressure (cylinder):** 0...5bar
- **Pressure (outlet):** 0...5bar
- **Crank angle:** 0...360°
- **Flow rate:** 0,2...6L/min

Power supply:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

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