



Email : sales@scilabexport.com

Phone: +91-7082934803

Product Name :

Computerized Reciprocating Pump Test
Apparatus

Product Code :

SLE/MCE/49



Website: <https://scilabexport.com>, **Email:** sales@scilabexport.com

1226/1-5, Bengali Mohalla, Science Market | 133001, Harvana



Email : sales@scilabexport.com

Phone: +91-7082934803

Description :

Description:

- 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

Contact Science Lab for your Educational School Science Lab Equipments. We are best maths lab equipment manufacturers in india, physics lab equipments manufacturers, school educational equipments, school lab equipment manufacturer, school lab equipments manufacturers in india, scientific educational lab equipment.

Website: <https://scilabexport.com>, **Email:** sales@scilabexport.com

1226/1-5, Bengali Mohalla, Science Market | 133001, Haryana