

Product Name :

Four Cylinder Four Stroke Petrol Engine with Rope Break
Dynamometer Test Rig

Product Code :

ALABS-A104-421

**Description :****Four Cylinder Four Stroke Petrol Engine with Rope Break Dynamometer Test Rig**

The setup consists of four cylinders, four stroke, Diesel engine connected to dynamometer for engine loading. The setup has stand-alone type independent panel box consisting of air box, fuel tank, manometer, fuel measuring unit. Engine jacket cooling water inlet, outlet and calorimeter temperature is displayed on temperature indicator. Flowmeters are provided for cooling water and calorimeter flow measurement.

Experiment:

- Study of engine performance for power, efficiencies, fuel consumption, air fuel ratio and heat balance

Utilities Required:

- **Electric supply** Provide 230 +/- 10 VAC, 50 Hz, single phase electric supply with proper earthing. (Neutral – Earth voltage less than 5 VAC)
- 5A, three pin socket with switch (2 No)

- **Water supply** Continuous, clean and soft water supply @ 4000 LPH, at 10 m. head. Provide tap with 1" BSP size connection
- **Space** 3500Lx4000Wx2000H in mm
- **Drain** Provide suitable drain arrangement (Drain pipe 65 NB/2.5" size)
- **Exhaust** Provide suitable exhaust arrangement (Exhaust pipe 32 NB/1.25" size)
- **Fuel, oil** Diesel @10 liter, Oil @ 3.5 lit. (15W40)



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