

Product Name :

Single Cylinder Four Stroke Water Cooled Diesel Engine with Rope Break Dynamometer Test Rig

Product Code :

ALABS-A175-008

**Description :****Single Cylinder Four Stroke Water Cooled Diesel Engine with Rope Break Dynamometer Test Rig**

Two main components from main parts of the test rig. Welded steel base plate, complete with Rope Brake Dynamometer provided with cooling water arrangement. Panel board positioned over the base plate consisting of fuel system with flow measurement by burette, air flow measurement system, temperature and speed indicator.

- The Dynamometer used is a Mechanical Brake capable of absorbing a maximum load of 6HP @ 650 RPM/8 HP @ 850RPM

Instrumentation:

The following instrumentation is provided.

'U' tube manometer for air flow rate

Burette for fuel flow rate

Digital Temperature Indicator-Multi point indicator with thermocouples.

Controls:

The test rig is arranged for manual control with Hand cranking start arrangement for engine starting.

Fuel measuring arrangement:

Fuel

Measuring Arrangement consists of fuel tank, burette and suitable cock all mounted on a suitable framework and panel board and supplied with fuel piping from fuel tank to Engine.

Air intake measurement & heat carried away by exhaust gas:

Consisting

of an air tank mounted on an iron stand fitted with a suitable orifice plate, manometer, Thermocouple for measuring the exhaust gas temperature with pocket connection with instruments suitably mounted on a panel board. **Heat carried away by cooling**

water

Consists

of suitable inlet and outlet piping with flow control valve. Rota meter to measure the rate of flow of cooling water and Thermocouple with pocket connections for measuring inlet and outlet water temperature.

Engine

Single Cylinder Four Stroke Water Cooled Vertical Diesel Engine to develop 6 HP @ 650 RPM./8 HP @ 850 RPM. (Make: Kirloskar)

Services

Electrical supply of 230V, Single Phase, 50Hz AC & external cooling water supply

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