

KFM-26 Rotary Air Compressor Test Rig.

Specifications:

- Vane compressor - Rotary compressor, driven by 0.5HP single phase motor.
- Calibrated orifice meter with water manometer 300 mm height to measure air intake.
- Air Tank 300 mm x 300 mm.
- Energy enter to measure input of the meter.
- Pressure gauge to measure discharge pressure.
- Control valve at delivery side.
- Stop clock.
- Temperature Indicator 0 to 200 °C.
- Storage tank suitable.

Range of Experiments:

To determine volumetric efficiency, power consumption and free air discharge of compressor.



KFM-27 Electrical Analogy Apparatus

Specifications:

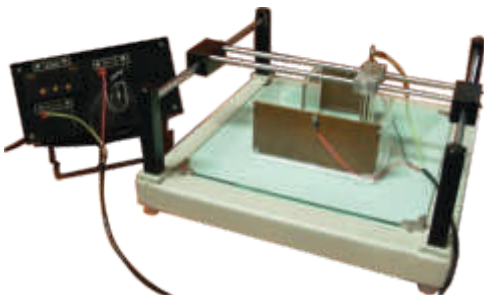
- The Electrical Analogy Instrument shall have following facilities:
The Apparatus Is In Two Parts Namely:
 - Experimental Setup.
 - Analogue Field Plotter.
- The experimental set up consists of a transparent tank of 400 – 450 mm area and 75 mm depth. In this tank the model under study is to be installed. The model is to be designed as per the requirement out of copper and Bakelite plates. A sample model arrangement will be given with the setup.
- A probe is mounted on a trolley, which can traverse in two planes

fitted on tray to locate equipotential lines. X – Y Co – ordinate of the probe at each locate on the scale fitted on the cross slide.

- Necessary potential can be given with the help of analogue field plotter can be displayed on the meter provided.
- It shall be supplied with user's manual and necessary accessories.

Range of Experiments:

To verify the very fundamental Flow Net Rule – 'Flow lines and Equipotential lines must always intersect at right angles



KFM-28 Gear Pump Test Rig

Specifications:

- Gear pump with 1/2 HP motor with three speed cone pulley, mounted over the sump tank.
- Discharge measurement tank.
- Pressure gauge for discharge head and vacuum gauge for suction vacuum.
- Energy meter for power input.
- Pressure relief valve in discharge pipe.
- Needle valve to control discharge pressure.

Following characteristics can be determined.

- a) Speed V/S Discharge.
- b) Head V/S Discharge.
- c) Discharge V/S input power.
- d) Discharge V/S efficiency.

