

## **THD-010     CENTRIFUGAL BLOWER( BACKWARD CURVES )TEST RIG**



### **RANGE OF EXPERIMENTS TO BE CARRIED OUT:**

1. To study all components/Accessories used in Centrifugal Blower.
2. To study & determine Blower Capacity, Output Work, Input Work, Fan Efficiency at different delivery pressure.
3. To Plot Fan Efficiency, Blower Total Pressure, Input Power against Blower Capacity at Delivery Pressure & comment on the nature of the plot.

### **TECHNICAL DESCRIPTION :**

The test rig consists of two pitot tubes provided with two differential manometer to measure pressure of air at the inlet & outlet side of the blower. Energy meter is used to record the power input of motor. Speed of the blower is varied by using reduction pulley or auto transformer.

### **DIMENSIONS AND WEIGHT :**

Size :2.0 m.(L)x 1.5 m(W) X 1.0m ( H )

Weight :Approx. 150 Kg

### **SERVICE REQUIRED :**

Power Supply :440v, AC ,Three Phase , 50HZ

### **SCOPE OF DELIVERY:**

1. Experimental Setup
2. Instructional Manual

**OPTIONAL FACILITY:** Data logging Facility

1, Camp's Corner, Nr. Narhari Hospital, Fatehgunj, Vadodara - 390 002, Gujarat, India.

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