

## HT-036 SURFACE CONDENSER TEST RIG



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

1. To determine Heat transferrate of heating & cooling.
2. To determine the overall and individual film heat transfer coefficients for a condensation of a vapour on a Horizontal Condenser.
3. To calculate Effectiveness of the Condenser.
4. The experiments can be conducted at various values of input & calculation can be made accordingly.

### **TECHNICAL DESCRIPTION :**

The shell and tube type horizontal condenser. Steam ( or any condensable organic vapour ) is admitted in the Shell Side. The pressure and temperature of the vapour is indicated by pressure gauge and Temperature Indicator . Condensate rate could be measured by collecting it in to a receiver in known time. The flow rate of cold water flowing through the inner pipe is known by rotameter.

**DIMENSIONS AND WEIGHT :**

Size :1.2 m.(L)x 1 m(W) X 2m ( H )

Weight :Approx. 110 Kg , Water: @10 Lpm

**SERVICE REQUIRED :**

440 v Ac Supply 50 Hz, Three Phase.

**SCOPE OF DELIVERY:**

1. Experimental Setup
2. Instructional Manual

**OPTIONAL FACILITY:** Data logging Facility