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**Product Name :**  
Lagging Efficiency Steam Bench

**Product Code :**  
LBNY-0005-16300011



#### **Description :**

The steam bench incorporates four similar mild steel tubes, each connected to a common steam supply via an inlet regulating valve and a common blowdown line via an outlet valve. Two of the tubes are unlagged but have differing finishes, namely a painted finish and a chromium plated finish respectively. Lagging Efficiency Steam Bench consists of a sturdy framework and panels of all steel construction, fitted with a student work surface, interconnecting back panel and adjustable feet. The measured temperatures are displayed on an analogue temperature meter via a selection switch. From measurements of temperature and condensate levels over a period of time, students are able to calculate the lagging efficiency and the coefficient of thermal conductivity of the lagging. The remaining two tubes are lagged, one with glass fibre webbing tape and the other with a pre-formed fibre glass insulation jacket. Each tube is fitted with a sight glass and scale to enable condensate to be measured.

#### **Features:**

- Pressure test certificates supplied for major components
- Easy installation
- Comprehensive instrumentation
- Dividing panels so radiation does not affect thermocouple readings
- Compact modular design
- Low capital cost.

#### **Technical Specification :**

#### **Experimental Capability:**

To compare the energy loss from lagged tubes with that from unlagged tubes

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Calculation of the coefficient of thermal conductivity of the lagging.  
Investigation of the efficiency of two types of lagging widely used in industry.  
Calculation of lagging efficiency of each lagging.



**Laboratory Instrument India**