

BOY'S GAS CALORIMETER

AIM:- To determine the calorific value of the gaseous fuel.

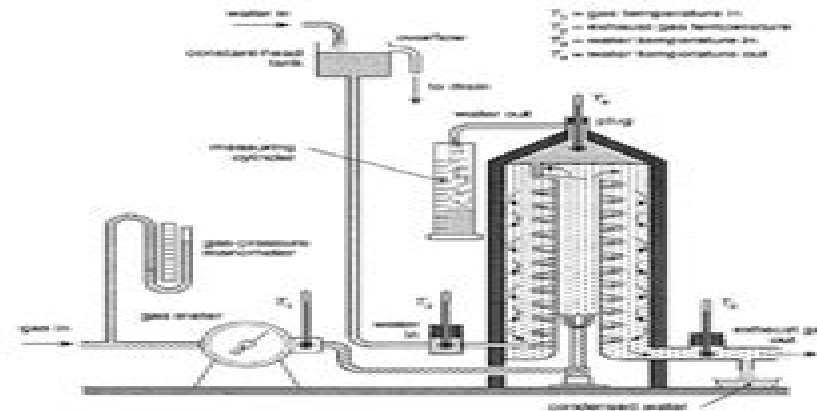
THEORY:- calorific value of solid fuel is the amount heat released when 1kg of fuel is burnt, completely expressed in K.J/kg (complete combustion of fuel)

Calorific value of gaseous fuel is the amount heat released by 1 m³ of gaseous fuel at NTP when it is burnt (complete combustion of fuel) expressed K.J/m³at NTP

APPARATUS:- It consists of a central funnel in the middle of which, and at the bottom, is filled with burners. The funnel is fitted with cooling coil around it. The cooling water inlet passes through the calorimeter at the bottom and the outlet is at the top. Thermometers are installed to measure the inlet and outlet temperature of water. The gas is supplied at the bottom and the outlet is at the top. Water is circulated through the coil at constant head. Gas governor is provided to supply the gas at constant pressure

PROCEDURE:-

- Check the flow rate of water and gas.
- Allow the gas through the burner for initial value by adjusting the control valve.
- Put on the burner and raise the burner into the calorimeter. Allow the gas to burn until steady state is reached.
- Note down the temperature of the water at inlet and outlet



Energy Conversion Lab Manual

M Mark



Energy Conversion Lab Manual:

Reviewing **Energy Converstion Lab Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Energy Converstion Lab Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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