

BOY'S GAS CALORIMETER

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

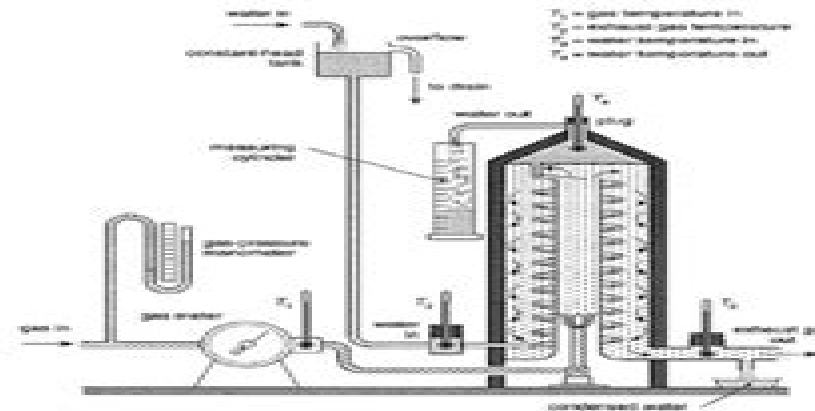
THEORY:- calorific value of solid fuel is the amount heat released when 1kg of fuel is burnt, completely expressed in K.J/kg (complete combustion of fuel)

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 Soft Copy

David Kirk



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web the second season adapts from the 7th volume to the 11th volume chapters 54 97 of the manga and ran for two continuous cours the first part titled demon slayer kimetsu no yaiba mugen train arc is a seven episode recompilation of the mugen train arc as featured in the 2020 anime film

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web his theory gave a generalized explanation of acids and bases based on structure and bonding through the use of the lewis definition of acids and bases chemists are now able to predict a wider variety of acid base reactions lewis theory used electrons instead of proton transfer and specifically stated that an acid is a species that accepts

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web understanding key foundational principles is vital to learning chemistry across different contexts one such foundational principle is the acid base behavior of molecules in the general chemistry sequence the brønsted lowry theory is stressed because it lends itself well to studying equilibrium and kine