



Carbon & Sulphur Determination Apparatus

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Vertex Semi C & S Determination Apparatus is designed to use to analyse C & S by Combustion Method. This Apparatus is Sturdy and most reliable one. It is very economical for regular qualitative analysis. More than 700 units in operation. It takes less than 3 minutes to analyse accurately weighed sample. The carbon & Sulphur estimation is based on Charles' Law and Boyle's Law of Gases. The Buretes are directly calibrated in percentage to reduce the calculations which are based on Tropical conditions of India. Calibration Correction Chart is supplied along with the Apparatus.



MODEL : 102-A / 76

This model comes with Single Carbon Burette with Auto Levelling Tube, One Three Way Stopcock, 'T' Stopcock, Gas Condenser, Absorption Vessel, Sulphur Burette, Sulphur Bubbler, Reservoir all mounted on Steel Stand with Filter Trap, Observation Tube, Gas Purifying Train, Combustion Tube Furnace along with Control Panel consisting of Auto Variac, Ampere Meter and Temperature Indicator, On-Off Switch, Pt-Pt-Rh 10% Thermocouple complete with full set.

MODEL : 302 / 84

This model consist of Two Carbon Burettes with Two Levelling Stes, Two Levelling Bottles, Two Three Way Stopcock, 'T' Stopcock, Gas Condenser, Absorption Vessel, Sulphur Burette, Sulphur Bubbler, Reservoir all mounted on Steel Stand with Filter Trap, Observation Tube, Gas Purifying Train, Combustion Tube Furnace along with Control Panel fitted with Auto Variac, Ampere Meter, Temperature Indicator, Pt-Pt-Rh 10% Thermocouple complete with full set.



VERTEX ENGINEERS & ASSOCIATES

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Specialities :-

This equipment has only two silicon carbide heating rods to achieve the temperature. The Tube Furnace can attain the maximum temperature of 1350°C. The Control Panel has a Auto Variac Transformer to regulate the current flow of the heating elements. This equipment comes with a platinum based thermocouple for long life working.

This equipment has a built in mechanism where the liquid for the burette is raised automatically avoiding lifting of the bottle. It also has a levelling tube where he soon can be levelled at the atmospheric pressure to get the percentage of Carbon in the sample. This equipment is the only equipment which gives a direct reading of the percentage of the Carbon and Sulphur in the sample. The parts, if broken, can be easily replaced as the parts are standarised. The equipment comes on a metal sturdy body. All the parts are powder coated to avoid chemical reaction.

Ranges of Carbon Burettes available :-

- 1) 0 - 0.25 % C (Micro Burette)
- 2) 0 - 0.50 % C
- 3) 0 - 1.50 % C
- 4) 0 - 4.50 % C
- 5) 0 - 6.00 % C

Ranges of Sulphur Burette available :-

- 1) 0 - 0.20 % S

Consumables :-

- 1) Combustion Boats
- 2) Combustion Tube
- 3) Heating Rod with Clamps

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