

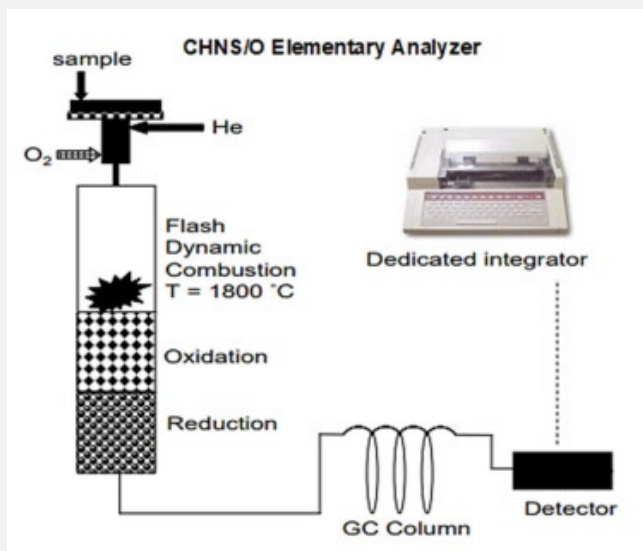


CHNS/O Elementary Analyzer

The PE 2400 Series II CHNS/O Analyzer is a self-contained, high speed, microprocessor-controlled, organic elemental analyzer capable of operating in multiple analysis modes. These modes include the simultaneous determination of carbon, hydrogen, nitrogen, sulphur or oxygen content in organic and other types of materials.

Small quantities of sample are accurately weighed into a tin capsule and dropped into the combustion tube for a complete combustion. At elevated temperatures, in the presence of excess oxygen, organic materials combust to form CO₂, H₂O, various NxOy compounds, and SO₂ if sulphur is present. These reactions are facilitated by solid catalysts packed in the combustion tube.

Other combustion products like HCl are generally removed by silver gauze and other solid materials packed in the tube. The NxOy combustion products are reduced by fine copper to N₂. The combustion gases are collected and will flow into the GC column for separation and detected by thermal conductivity detector.



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