

CHN-O rapid Analyser

Make of CHN-O rapid: FOSS HERAEUS **Model:** CHN-O Rapid

Type of analysis possible:

- Qualitative Analysis
- Quantitative Analysis



- CHN–O rapid brings a new level of precision, accuracy, speed of analysis and ease of operation.
- The built in furnace column converts the compound in the form of NO_2 , CO_2 , SO_2 , H_2O and then reduced, which are then detected with the help of Thermal Conductivity Detector. The instrument is calibrated with the analysis of std compounds using the K-factors calculations.
- Thus the instrument ensures maximum reliability of the results because the combustion gases are not split or diluted but directly carried to built in TCD simultaneous determination of CHN can be done in less than 10 mins.
- This method finds greatest utility in finding out percentages of C, H, and N in organic compounds. Helium used as reference gas and oxygen used as test gas.
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Specification:

Contact us:

- Estimation of CHN in percentage level to high concentration level.
- The CHN–O rapid Analyzer find utility in determining the percentages of Carbon, Hydrogen, Nitrogen, of organic compounds, based on the principle of "Dumas method" which involves the complete and instantaneous oxidation of the sample by "flash combustion".
- The combustion products are separated by a furnace column and detected by the thermal conductivity detector.
- which gives an output signal proportional to the concentration of the individual components of the mixture.

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User Instructions :

- Qualitative and quantitative data can be provided,
- All sample should be homogenous and sieved through 2.0 mm sieve.
- Samples should not be toxic or hazardous.
- Total carbon, total Nitrogen, hydrogen and C/N ratio