



## Elemental (CHN) Analyzer FM-CHN-A100

### Overview

Elemental (CHN) Analyzer FM-CHN-A100 is designed for precise elemental analysis of samples weighing up to 70 to 80 mg. Rapid testing allows for immediate sample insertion and fast results. Automated features, including energy-saving cooling and temperature control, improve efficiency. The advanced detection system guarantees accurate and consistent measurements.

### Specifications :

Testing Procedure	Infrared spectroscopy : Carbon and hydrogen Thermal conductivity : Nitrogen
Detection Range	Carbon : (0.005 to 100%) Hydrogen : (0.05 to 25%) Nitrogen : (0.01 to 50 % )
Analysis Time	300 seconds / sample
Sample Mass	70 to 80 mg
Sample Loading	Layered auto-feeder, holds up to 140 samples in 4 levels
Repeatability	Carbon (Cad) d 0.5 % , Hydrogen (Had) d 0.15%, Nitrogen (Nad) d 0.08 %
Sample Quantity	Up to 1000 mg, depending on sample matrix
Heating Method	Resistance furnace
Maximum Heat Level	1050
Temperature Precision	1
Power Supply	220 – 22V AC, 50 – 10H
Power Consumption	d 4 kw
Package Dimension ( Box 1 )	600 x600 x500 mm
Packing Dimension ( Box 2 )	800 x800 x1000 mm
Net Weight	100 Kg
Gross Weight ( Box 1 )	40 Kg
Gross Weight ( Box 2 )	140 Kg

### Features :

- Elemental (CHN) Analyzer with high throughput
- Low Maintenance
- Fixed combustion adjustments
- Immediate sample insertion
- Complies with ASTM D5373-2014
- Compact and lightweight
- High-stability infrared pool
- Remote monitoring capability

### Applications :

Elemental (CHN) Analyzer is utilized across diverse sectors, including environmental testing, petroleum, coal, chemical manufacturing, pharmaceuticals, agriculture, and food and beverage industries