Elemental (CHN) Analyzer LCHN-A10

Elemental (CHN) Analyzer LCHN-A10

Elemental (CHN) Analyzer LCHN-A10 is used to determine Carbon, Hydrogen and Nitrogen in macro amount of samples. Features dual stage furnace with pure oxygen flow for complete combustion, multiple detector, blended gas analysis, IR CO_2 monitor detector, stackable auto loader etc. to ensure efficient performance and obtain reliable results.

Features

- Dual-stage furnace with complete catalytic combustion
- Customized multiple detectors for different elements
- Sample is analyzed in minimum time
- 5.0 ml Blended gas analysis to reduce the consumption of helium and copper
- IR CO_2 and IR H_2O detector are used
- Complete combustion ensured by IR CO_2 monitor detector
- Stackable auto loader , 25/35 samples in each layer
- Can analyze macro weighed samples of liquids, solids and heterogeneous matrix
- Windows based operating software to control and view parameters on PC
- Complies with CE standards

Applications

It is used for analysis of fuels, biomass, food, oil, coal, waste, plastic, solvents, fertilizers etc. samples in different laboratories and industries.

Flow Diagram
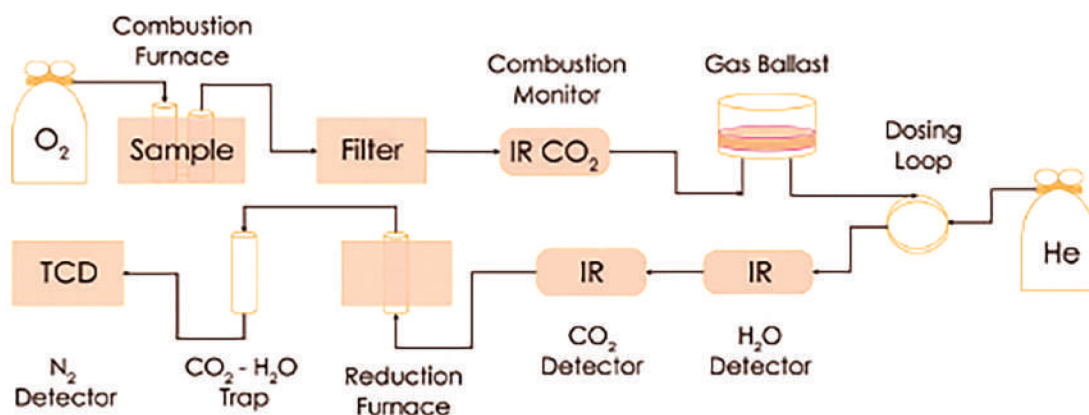
Specifications

Model no.	LCHN-A10
Gas required	Helium: 99.99% 0.25 ± 0.01 mPa
	Oxygen: 99.99% 0.25 ± 0.01 mPa
	Nitrogen or Composed air: 0.25 ± 0.01 mPa
Measurement range	Carbon: 0.02 to 150 mg
	Hydrogen: 0.1 mg to 12 mg
	Nitrogen: 0.04 to 50 mg
Consumption	Helium 200 ml/ min
Sample mass	Up to 1000 mg, depending on the sample matrix
Analysis time	4 to 6 mins, depending on sample combustion condition
Autosampler	Stackable auto loader, up to 140 samples by 4 layers
Accuracy	Carbon (Cad): 0.5%
	Hydrogen (Had): 0.15%
	Nitrogen (Nad): 0.08%
Furnace type	Resistance furnace (main furnace and furnace rear)
Maximum temperature	1050°C
Dimension	690 × 750 × 720 mm
Weight	110 kg
Power	5.5 kW
Power supply	AC 220 ± 10 %V , 50/60 Hz