

Model	5E-CHN2200
Analysis Time	4-6mins, depending on sample combustion condition
Auto-Sampler	Stackable auto loader, up to 140 samples by 4 layers
Sample Mass	Up to 1000mg, depending on sample matrix
	Helium, 99.99%, 0.25±0.01Mpa
Gas Required	Oxygen, 99.5%, 0.25±0.01Mpa
	Nitrogen or Compressed Air, 0.25±0.01Mpa
	Carbon: 0.02mg-150mg
Measurement Range	Hydrogen: 0.1mg-12mg
	Nitrogen: 0.04mg-50mg
Consumption	Helium 200ml/min
Furnace Type	Resistance furnace, Maximum temperature 1050°C
Dimension (L×W× H)	690mm×750mm×720mm
Safety Standard	CE labeled

**YOUR CHOICE
IN ENVIRONMENTAL ANALYSIS**



5E-IRS3600
AUTOMATIC
SULFUR ANALYZER



5E-HGT2320
AUTOMATIC
MERCURY ANALYZER



5E-MW6510
AUTOMATIC
MOISTURE ANALYZER



5E-CHN2200
SERIES ANALYZER

The 5E-CHN2200 Series is a range of modern and compact analysers designed for unattended and full determination of CHN, or Nitrogen /Protein in any type of sample from solid to liquid.

Elemental Analyzer CHN «macro»





5E-CHN2200 SERIES ANALYER

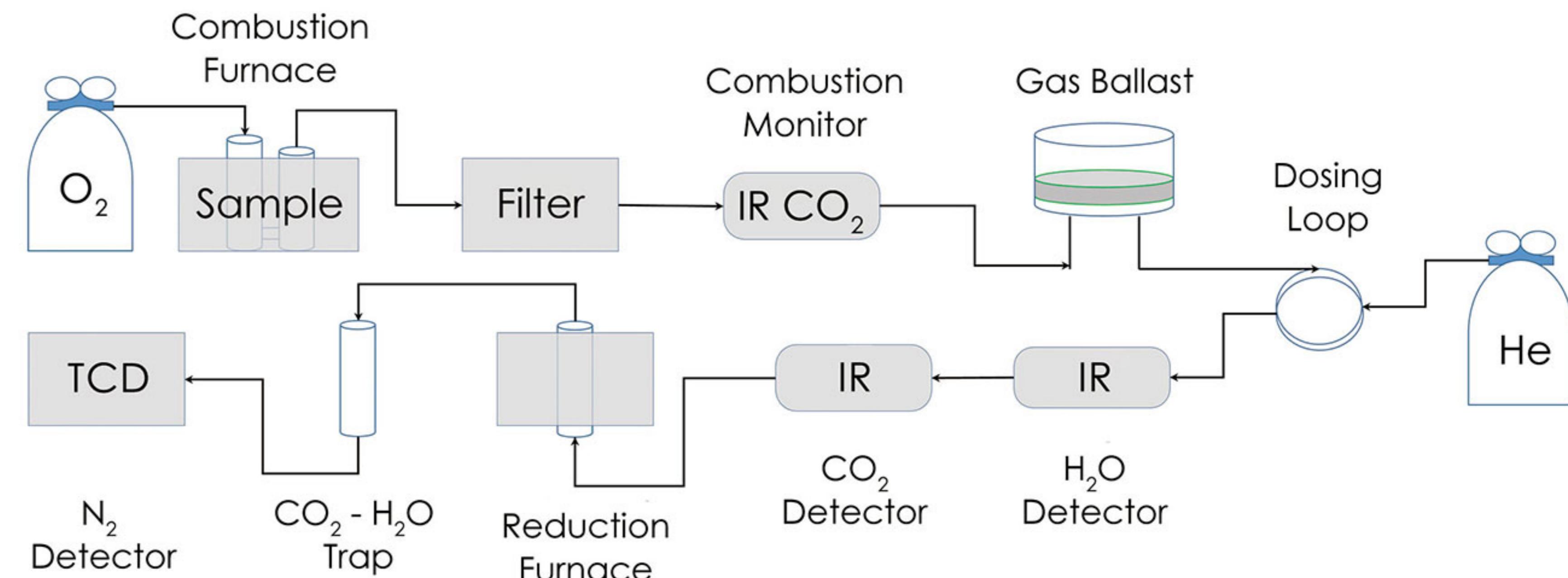
5E-CHN2200 CHN analyzer is ideal for macro weighed samples. It is one of the very few analyzers on the market really able to analyze macro amounts of samples, liquids and solids, heterogeneous matrix. The features that make it ideal for analysis of biomass, waste, fuels and foods.

Due to its operating principle, it is completely modular: during configuration one up to three element can be chosen from C/H/N; the upgrades to other elements can be done in situ at a later time.

CUSTOM CONFIGURATION, MAXIMUM FLEXIBILITY

Carbon - **IR** Hydrogen - **IR** Nitrogen - **TCD**

CH N	✓	✓	✓
CH	✓	✓	
C N	✓		✓
H			



HOW IT WORKS

An encapsulated sample is placed into the loading head of the CHN2200, which is sealed and purged. The sample is then dropped into a hot furnace which contains high pressure pure oxygen, for very rapid combustion. Dust and ash are filtered before collection in the gas ballast. These collected gases are mixed, and then an aliquot dose is analyzed with IR detectors to give Hydrogen and Carbon value. All the gases pass through a reduction catalyst in order to form molecular nitrogen. Then CO and H O trap ensure that only N goes inside the TCD to be detected. The system is controlled by external PC using Windows based operating software.

FEATURES

- Dual-stage furnace ensure complete catalytic combustion
- Multiple detector: custom configuration and minimum time per analysis
- 5ml blended gas analysis ensure to save the consumption of Helium and Copper
- IR CO₂ monitor detector to check complete combustion

