

Detects nitrogen in feed and raw materials sample include milk.

Helium – Argon carrier gas required for analytical flow path to thermal conductivity cell.

Thermal conductivity cell able to be switched from helium to argon without needed for hardware changes.

Instrument must utilize solid state (no moving parts), infrared for Carbon detection, heated thermal isolation for hydrogen and carbon detection.

Provide superior isolation from ambient temp.

Fluctuation and other variables.

Instrument must be able to performing analysis for C, H, and nitrogen within mints.

Instrument must ensure complete combustion of macro samples by providing a two stage combustion furnace that is capable of independent control temp.

Instrument must perform moisture removal with a pre chiller thermoelectrically cooler.

All chemical reagents utilized by the instrument must have a minimum lifetime of 700 analyses before required to change.

Instrument must use on board software platform powered by touch screen.

The software must contain real-time service diagnostics including ambient charts of instrument temperatures, pressures, and detector signal; manual control of solenoids and switches; automated leak checks; and network and communications diagnostics.

Instrument software must contain a quality control feature ensuring the instrument.

The instrument software must have user-definable:

- Counters to aid in the tracking of routine maintenance procedures and reagents or other expendable components.
- Gas conservation mode, helping to avoid wasting costly gas.
- Fields for automatic calculations based on the elemental results.