

FP-528

Nitrogen/Protein

Foods, Feeds, Forages,
Fertilizers, Milled Products



Used specifically for low-sample throughput laboratories, the FP-528 Nitrogen/Protein Determinator is a cost-effective alternative to Kjeldahl digestion methods.

How it Works

An encapsulated sample is placed into the loading head of the FP-528, where it is sealed and purged of any atmospheric gases that have entered during sampling loading. The sample is then dropped into a hot furnace and flushed with pure oxygen for very rapid combustion.

By-products of combustion—CO₂, H₂O, NO_x, and N₂—pass through the furnace filter and thermoelectric cooler for subsequent collection in a ballast apparatus. These collected gases in the ballast are equilibrated, and a small aliquot dose is then used for further conversion of the gases. The remaining aliquot that has been reduced is measured by the thermal conductivity cell for nitrogen.

The system is controlled by an external PC using Windows®-based operating software.



Sample Holder
Holds up to
250 mg sample



Collection System
Ballast collects all
evolved gases;
Ensures complete
homogenization prior
to determination



Combustion Tube
Combustion of
samples in an
oxygen-rich
environment