

Nitrogen determination system

DUMATHERM



Analysis of **solid and liquid samples** using the combustion method according to Dumas. DUMATHERM works observing the current international standards and analytical requirements - thus meeting the required qualities.

For the majority of **sample matrices**, the Dumas method is a fast and reliable alternative to the classical digestion method like e.g. Kjeldahl. Now-a-days, both methods are considered equivalent reference methods. With the introduction of the **manual sampler**, DUMATHERM now offers a simple and cost efficient possibility of analysing a fluctuating amount of samples e.g. during the production process.

Product features

- Only about 30 minutes start-up time when completely turned off or stand-by mode
- Analytical results within 3 minutes for all standard sample matrices
- Perfect results for samples with low nitrogen content thanks to helium technology and total gas analysis
- Residue free combustion using acid-free and salt resistant catalysts without pyrolysis residues in the analytical system
- Simple and total water separation based on condensation traps and a maintenance free gas dryer: also perfect for the liquid samples in the food and feed analysis
- Minimal maintenance required by lab technician as the construction as well as the parts used are extremely user friendly
- Few consumables needed ensure fast and inexpensive maintenance (Reactors can be replaced during operation)

Models available

Depending on the sample throughput and budget, there are 2 models available:

- **DUMATHERM with manual sampler**
- **DUMATHERM with automatic sampler for 40, 80, or 120 samples**

Delivery of both systems includes the same basic unit and consumables for about 400 measurements. The operation of the DUMATHERM is done entirely using the **controlling software DUMATHERM Manager**. This software includes efficient diagnosis- and documentation functions, which allow a complete data interpretation.



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