



NC TECHNOLOGIES

Innovative Elemental μ -Analysis

SAMPLERS

ECS 80 SERIES

ECS 40 SERIES

Pneumatic Autosampler PN150 and PN120

- ✓ The pneumatic autosampler PN150 enables you to overlay up to three carousels for a total of 147 samples simultaneously loaded.
- ✓ A line of compressed air drives the movement of the piston that drops the capsule within the combustion reactor. Before dropping into the reactor the sample dwells in a conditioning chamber where a stream of helium ensures the elimination of atmospheric nitrogen introduced during loading. Once dropped in the reactor, the next sample is automatically introduced into the conditioning chamber.



- ✓ The autosampler sample holes are 11.5 mm in diameter. They can, therefore, easily accommodate large and bulky samples, or samples with low specific gravity (glass fiber filters, soil, leaves, etc).
A large viewing port lets to clearly see the sample combustion in the internal reactor.
- ✓ PN120 is more suitable for also available for high loading samples (such as more than 400-500 mg) depending on sample nature.

Electronic Autosampler "Zero Blank"

- ✓ The autosampler movements are electronically controlled by a micro stepper motor. There are three carousels available with respectively 32, 50 and 100 positions.
- ✓ The "Zero Blank" is completely sealed and a "purge" system ensures the elimination of any "nitrogen residual" which makes it particularly suitable for use in the analysis of isotopes.



- ✓ Isolation valve: optional item for the Autosampler "Zero Blank". It allows to minimize system changes during sample loading.

- ✓ Equipped with a "purge" line separate from the line of the "carrier" gas, the isolation valve isolates the rest of the system from the carousel once the autosampler is opened and during the operation of sample conditioning before starting a new analysis.



Manual Sampler

✓ The manual sampler is the right solution when a low number of samples have to be analyzed, combining efficiency and good stability to low costs.





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