



New Instruments and
Research for Analysis

NEPTUNE 803

FAST RESIDUAL SOLVENTS ANALYZER
FOR FLEXIBLE PACKAGING

NEPTUNE 803 is designed for the rapid execution of the analysis performed by the machine operators, directly next to production processes, even in solvent polluted areas.

By setting off the waiting time of the laboratories (sampling performed directly by the operators) and compressing, thanks to innovative instrumental solutions, the technical analysis times, Neptune 803 is

PROCESS VERSION



TABLE-TOP VERSION



able to provide a residual solvent result in the time necessary to produce a single roll (12 minutes). The use of Neptune 803 allows process corrections in real time, greatly reducing waste and rework of products.

DEVELOPED FOR QUALITY CONTROL IN PRODUCTION AREA

Flame ionization detector with conveyed discharge. Automatic hydrogen closing device in case of anomalies. Industrial PC (OS Windows®) and touch screen interface. Integrated headspace without external sample transfer line. Ethernet and USB network interfaces. Easy touch screen interface.

DEVELOPED FOR OPERATORS

The industrial PC housed in the analyzer, the Windows Embedded® operating system and the software have been developed to be managed by machine operators, they guide and support them in each required step. Any anomaly is recorded 24/7.

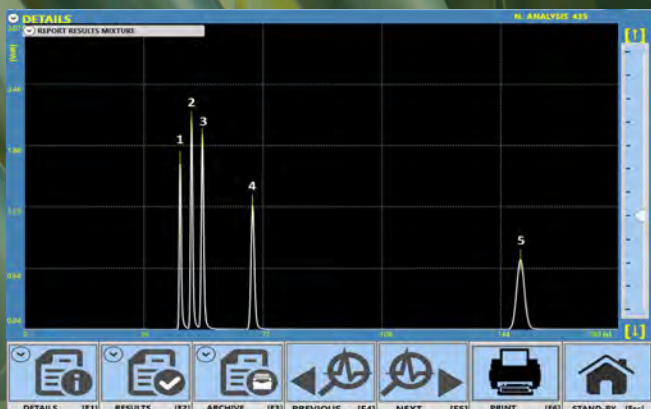
REDUCED MAINTENANCE

It uses a known volume (Loop) sampling, with no mechanical moving part, that guarantee two exclusive advantages compared to traditional split injection systems:

- Greater analytical stability over time.
- Less maintenance frequency.



NEW FEATURES



- **Exclusive headspace "pulse" washing system.**
- **Full electronic pressures control** (no more manual adjustments needed).
- **Easier new software interface** and touch screen.
- **New ultra-sensitive FID detector**, self-heated.
- **Remote online service:** screen sharing with our technical staff.
- **Multiple incubation options.**
- **Downloadable archives** as .CSV and .pdf files.
- **Windows® operating system**
- **Automatic self diagnostic**

ACCESSORIES

- > **Air conditioned pulpit assembly**, to be used in production areas, IP55 protected.
- > **Zero air generator** to use factory compressed air and make it suitable for the instrument.
- > **Circular sample cutter** with safety device on blades.
- > **Analytical micro syringe** suitable for solvents or ink analysis.

NORMATIVES AND METHODS

Neptune 803 was developed in collaboration with some of the most renowned companies in the flexible packaging sector and verified by third party laboratories, through different cross-analyses with traditional GCs.

This analyzer complies with the guidelines stated in the **EN 13628** and **ASTM 1884**.

TECHNICAL CHARACTERISTICS

Incubation time	5, 10, 30 min.
Operating temperature	10 + 40°C (+ 50°C process version)
Incubation temperature	from 50°C to 150°C (± 0.1°C)
High precision thermostatic chamber	from 50°C to 150°C (± 0.1°C)
Measuring range (Ethyl Acetate)	0 - 135mg/m ²
Measuring range (Ethyl Acetate)	0 - 1.5µl
Minimum detectable level (Ethyl Acetate)	0.1 mg/m ²
Accuracy	±1%
Calibration frequency	6 months (under standard conditions)
Response time for single printed films	7 minutes
Response time for laminated films	12 minutes
Minimum requirements for hydrogen gas	99.995% (grade 4.5)
Hydrogen consumption and pressure	40ml/min., 3 bar
Minimum air requirements (zero air)	99.999% (grade 5.0)
Air consumption and pressure	800 ml/min., 5 bar
User interface	10.5 "color touch screen
USB outputs	2 USB outputs
RJ45 Ethernet output	1 RJ45 Ethernet output
Power supply	230Vac 50/60 Hz (120Vac)
Dimensions and weight (Table version)	500x600x400h mm, 40Kg
Dimensions and weight (Pulpit version)	750x1100x1900h mm, 180Kg
Remote online service	Team Viewer