

FAST RESIDUAL SOLVENT ANALYSIS

NEPTUNE 803



Tabletop model

- Quickly analyse residual solvents from single or complex films (5 to 10 minutes).
- Usable by unskilled personnel.
- Check the solvents, inks and adhesives composition.
- EN 13628 and ASTM 1884 compliant.



Process model

TURN RESIDUAL SOLVENT ANALYSIS INTO NEPTUNE 803

Skilled technician
required

Traditional
Lab GC



Response time in 45 min.

Neptune803

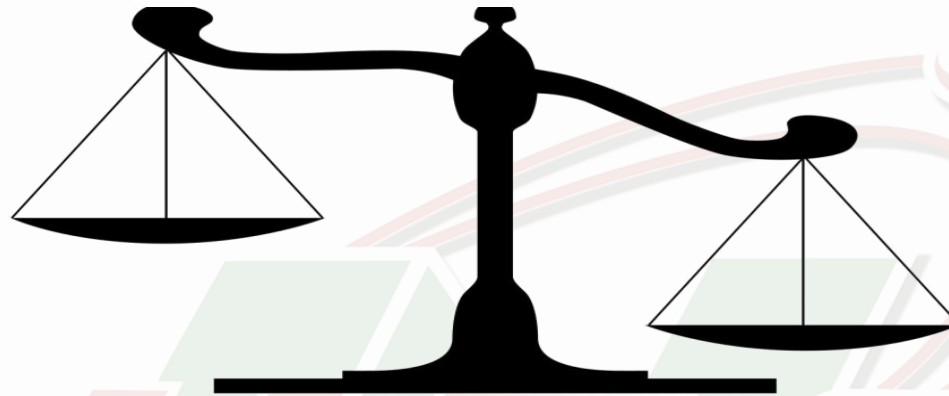
Usable by press
operators



Response time 7 min.

The speed of the Neptune analyser allows production to correct for high concentrations of residual solvent, starting with the first roll produced.

COMPARISON WITH STANDARD GCs



TRADITIONAL LAB GC

- Response time from 45 to 50 min.
- Slow and complex sampling.
- Need frequent span checks.
- Complex software and report reading.
- For skilled personnel only.
- Works in clean and temperature-controlled environment only.
- No fault alarm recording.

NEPTUNE GC

- Response time from 7 to 14 min.
- Quick and easy sampling.
- Stability up to 6 months.
- Guided software and easy reports.
- Anyone can use it.
- Works in harsh environment (made for production areas).
- 24h/24h alarm recording.

HOW TO USE IT?

Neptune 803 quickly extract and measure residual solvents from single or multilayer films automatically



Cork-base



Reel



Die-cut



100·cm²-sampled-reel



Film-insertion-in-test-tube



Insertion-in-desorber-body



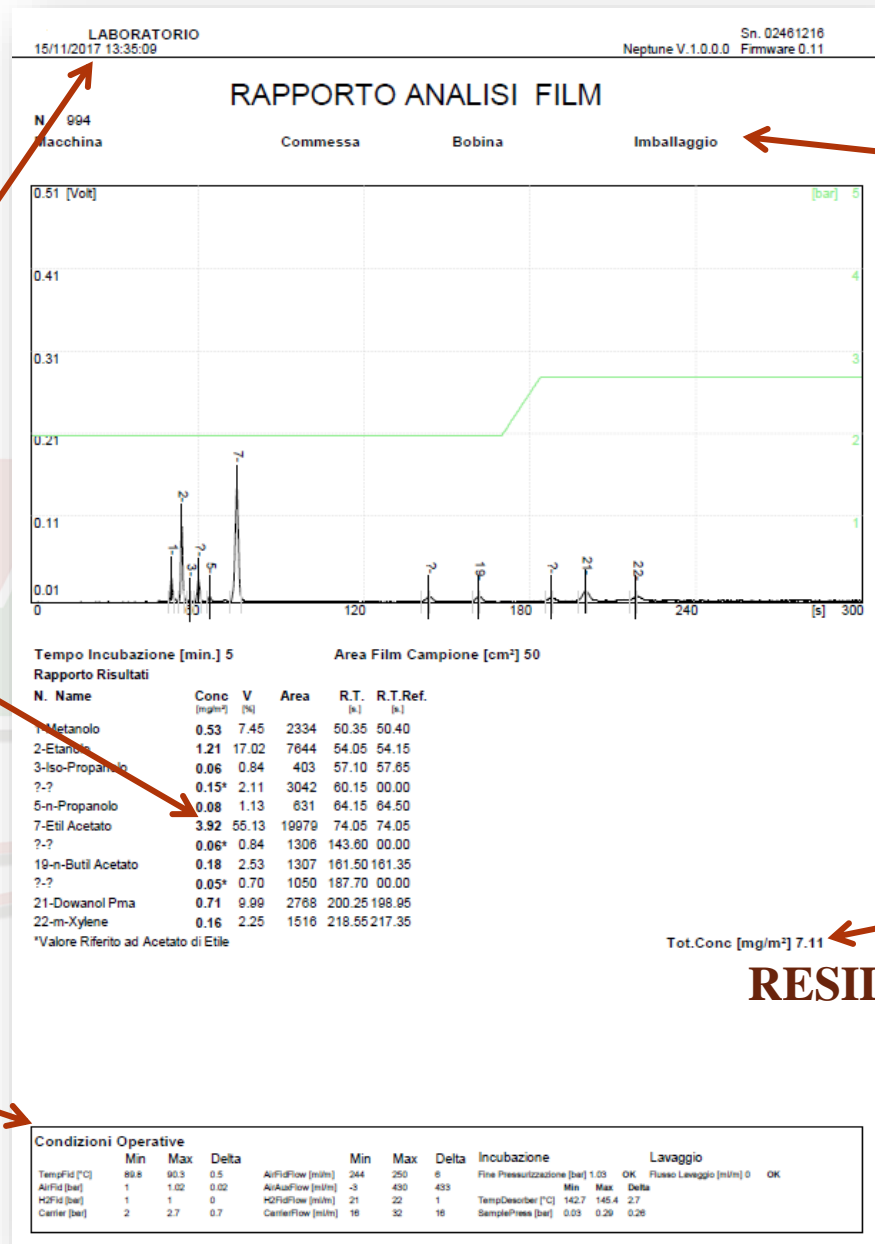
Analysis-cap-closure



Automatic-analysis-Start-up

Simply cut a known film sample and insert it into the headspace. Neptune will print and create a .pdf file report with the results, directly on your corporate network within 7 minutes.

SIMPLE & COMPLETE REPORTS



Date and time

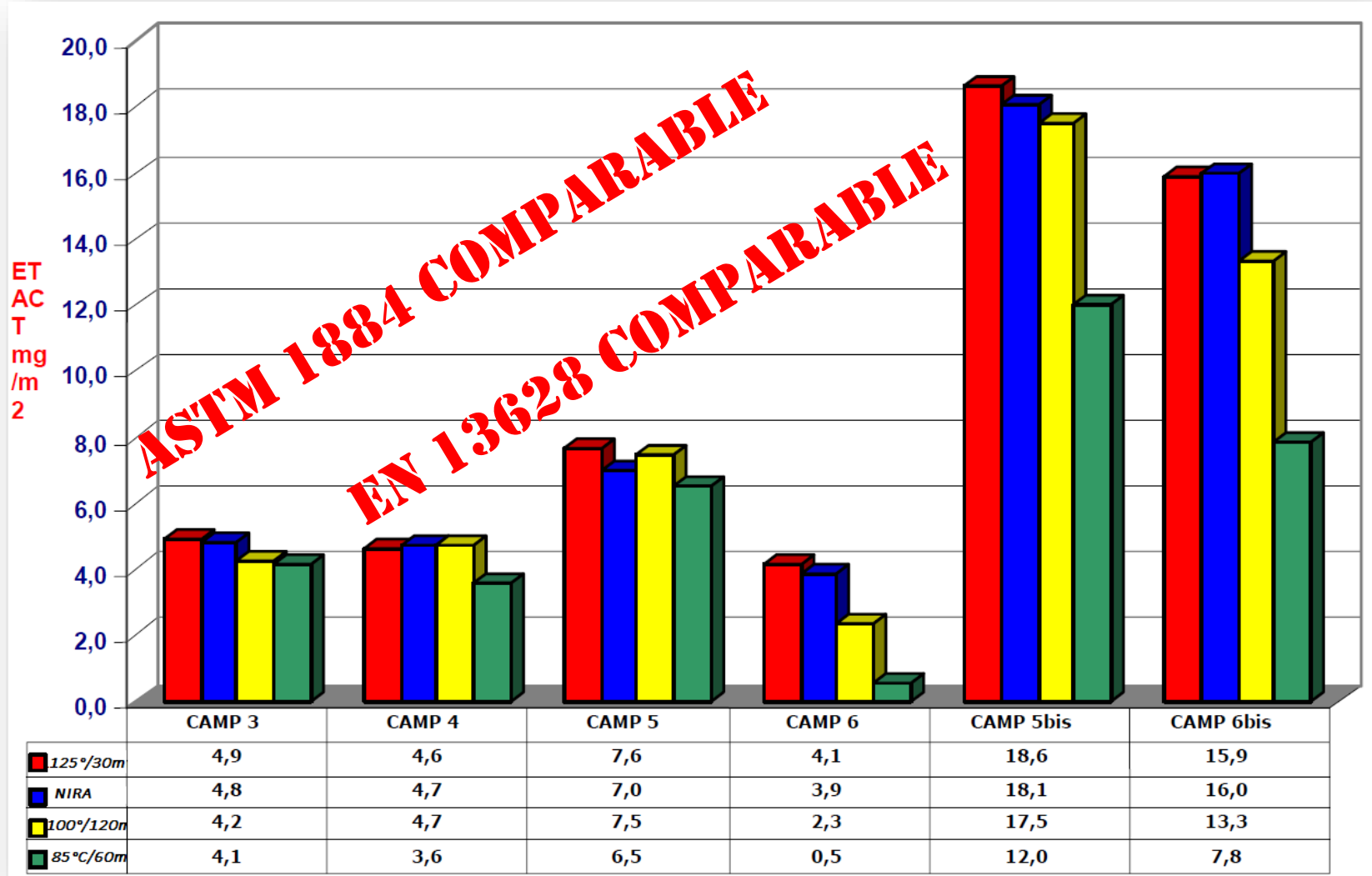
Information

Single solvent
Concentration

TOTAL
RESIDUAL SOLVENT in
mg/m²

Analysis conditions

COMPARABLE RESULTS TO THE MAIN EUROPEAN AND US STANDARDS



REQUIREMENTS

Our FID systems requires hydrogen and compressed air



Hydrogen 4,5 grade pure (3 bar)
40 Liters gas cylinder or optional H₂ generator
CONSUMPTION = 50 ml/min.



Air from your network (3 bar)
Nira filtering system
CONSUMPTION = 1 m³/hour



Power supply 230V or 115V

CALIBRATION AND MAINTENANCE

We worked hard to minimize maintenance and calibration frequencies, obtaining record results.

Every 6 months: Calibration check, the procedure is guided from the software and takes just few minutes using a single injection of a customized standard mixture.



Once a year, ask for a service visit from our staff.

COMPETENCE IN AFTERSALES

Our service department work worldwide every day, on 6 different kind of Nira instruments:

- E-mail, remote and phone service.
- More than 500 interventions performed per year.
- More than 1000 instruments serviced worldwide.
- Less than 5 working days to organize an intervention within Europe, 10 worldwide.

