

IATROSCAN® | MK6s FID

BITUMEN «SARA» PROFILER

Saturates | Aromatics | Resins | Asphalten



IATROSCAN® MK6S | FID

The analysis chamber integrates

- a Flame Ionization Detector (FID)
- Measurement type: Normal digital | blank | origin | Partial pyrolysis
- a robotic system for moving the frame carrying the Chromarods during burning
- 6 possible reading speeds (from 25 to 60 sec / rod)
- Electronic hydrogen flow meter with flow selector from 0 to 200 ml / min (digital display)
- Air flow meter with flow selector from 0 to 3 L/min

The control panel allows

- To configure the analyzes (speed, mode, number of Chromarods, ...)
- Start and Stop an Analysis

Overall dimensions

- L x D x H (cm): 52 x 43 x 26.5
- Weight (kg): 25 kg

Alimentation

- 110/120 | 220/240 V | 50/60 Hz

The IATROSCAN® MK6s FID (Flame Ionisation Detection) is a simple chromatographic method used to easily separate, identify and quantify the components of low volatility. It is the easiest method to determine the SARA (Saturates, Aromatics, Resins and Asphaltene) composition of bitumen, to determine Polymer compatibility and/or to predict colloidal instability.

The experiment consists in solubilizing the bitumen (1) in an appropriate solvent, and to subject it to a separative chromatography (2) using Chromarods (glass rod coated with a silica matrix) and selective solvents. The Chromarods are then analysed in the IATROSCAN® (3) and the chromatography profiles recorded and analysed (4) by a specific software. Optionnal FPD (Flame Photometry Detection) detector allow to detect both Sulfur and Phosphorus atoms in petroleum products.

◆ SARA determination

◆ Saturate analysis

◆ Aromatic analysis

◆ Asphalten analysis

