OilLab 900
Automatic Refrigerated Distillation
Unit Analyser Stand Alone

ASTM D86 group 0,1,2,3, 4 - ASTM D216 - ASTM
D447 - ASTM D850 - ASTM D1078 -
ASTM E133
DIN 51751
IP 123 - IP 195
ISO 3405

ASTM D86 - Distillation of Petroleum Products at Atmospheric Pressure.
This test method covers the atmospheric distillation of petroleum products using a laboratory batch distillation unit to determine quantitatively the boiling range characteristics of such products as natural gasolines, light and middle distillates, automotive spark-ignition engine fuels, aviation gasolines, aviation turbine fuels, 1-D and 2-D regular and low sulphur diesel fuels, special petroleum spirits, naphthas, white spirits, kerosines, and grades 1 and 2 burner fuels. The test method is designed for the analysis of distillate fuels; it is not applicable to products containing appreciable quantities of residual material.

ASTM D216 (obs.), ASTM D447 (obs.) Distillation Test Method.

ASTM D447 (obs.)
Test Method for Distillation of Plant Spray Oils.

ASTM D850 - Distillation of Industrial Aromatic Hydrocarbons and Related Materials.
This test method covers the distillation of industrial aromatic hydrocarbons and related materials of relatively narrow boiling ranges from 30 to 250°C.

ASTM D1078, IP 195 - Distillation Range of Volatile Organic Liquids.
This test method covers the determination of the distillation range of liquids boiling. Between 30 and 350°C, that are chemically

stable during the distillation process, by manual or automatic distillation procedures. This test method is applicable to organic liquids such as hydrocarbons, oxygenated compounds, chemical intermediates, and blends thereof.

ASTM E 133, IP 123, DIN 51751, ISO 3405 Standard Specification for Distillation Equipment.
This specification covers distillation equipment used in the following ASTM test methods: D86, D216, D447, D850, and D1078.

Hardware Performance
- Internal built-in heating/cooling unit which granting the following working temperatures: +65°C…-0°C for condensing side, +40°C…-0°C for receiver side.
- Low mass low voltage heater 600 W in order to heat sample up to +450°C.
- Automatic electric fan with electronic switch for rapidly cooling down end of analysis.
- Automatic fire extinguisher system with joint to be connected to an external extinguisher product line with 2 × fire detector and pressure connection sensor.
- Automatic barometric correction with precision 0.1 kPa.
- Temperature resolution and accuracy 0.1°C through PT100 A class sensor.
- Volume resolution 0.02 ml.
- Volume accuracy ±0.1 ml.
- Level following accuracy: ±0.1 ml.

Software Performance
- Managed by a touch screen panel PC by means of the Lab-Link software running in Windows® ambient:
  · TFT/LCD 10.1";
  · resolution 1280 × 800 with 16M colours, high brightness;

· 3 × USB Port, 1 × RJ45, 1 × RS232;
· LIMS compatible connection with network printer option with network printer option;
· storage capacity for more than 60'000 analysis;
· 6 methods based configurations and adaptive heating algorithm;
· settable password for protect calibration settings;
· recovery program;
· friendly user system with wizard.
- Automatic determination of initial boiling point (IBP) and final boiling point (FBP).

Instruments Features
- Mounted on a single-solid case painted with anti-acid epoxidic products.
- Recovery metal plate supported by a base whose height is adjustable with elevating system software controlled , self-positioning heating plate with compatibility with distillation flask 100, 125 and 200 cc.
- Wide toughed glass squared window movable for easily operation.
- Condensing tube made in stainless steel with integrated drip deflector and tube cleaned sensor.
- Receiver positioning sensor (receiver in-place), receiving door sensor for better conditioning, optical measurement sensor for auto-adapting distillation feature.
- PT100 A platinum resistance for sample temperature.

Power Consumption
- approx. 1200 W
- 220 Vac +/- 10%, 50/60 Hz

Weight
- 70 kg

Dimensions
- 46 × 55 × 80 cm