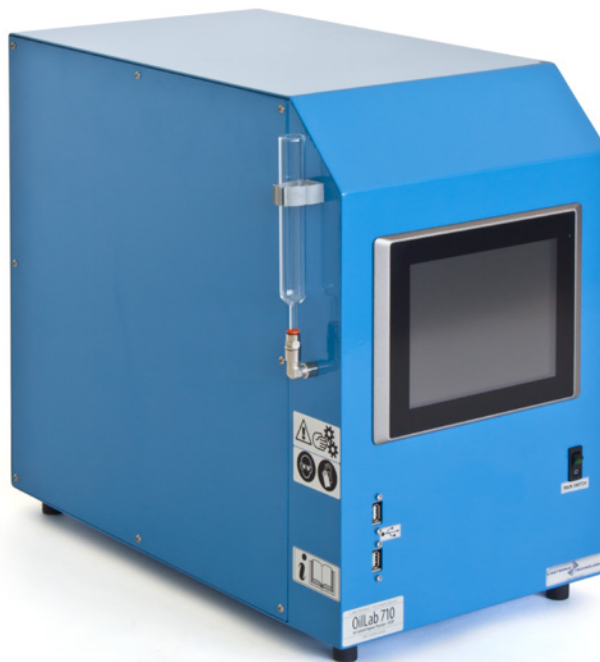




OilLab 710

ASVP – Air Saturated Vapour Pressure



ASTM D5191a
IP 394
EN 13016-1

Subject: Gasoline

Automatic analyser for determination of Air Saturated Vapour Pressure - DVPE.

Principle of detection

A chamber of 15 ml is maintained at 0.1 kPa and 37.8°C. A quantity of 3 ml of sample, with a temperature of 0 °C, after the air saturation procedure, is automatically injected by means of a pneumatic injector inside the cell of 15 ml. Due to the temperature a certain volume of sample changes from the liquid phase to the gas phase. This mutation modifies the absolute pressure inside the chamber. When the stabilisation of the pressure is reached, the volume of the absolute pressure obtained will be considered as the total vapour pressure.

Main Features

- Automatic system for sample conditioning in order to maintain the product at 0 °C
- Automatic system for air saturation
- Sample injection system
- Integrated sample cell with capacity 15 ml/cc, maintained at a temperature of 37.8 °C
- High quality pressure sensor
- Pressure range: 0 ... 2000 mBar / 0...177kPa
- Resolution: 0.01 kPa
- Max applicable pressure: 5 Bar
- Precision: <2 mBar / 0.2 kPa
- Vacuum pump efficiency 0.01 kPa as per standards methods or better
- Temperature measurement: platinum resistance thermometer with 0.05°C precision, 0.1°C displayed

Software Features

- All analytical parameters recorded
- Customizable analysis parameters and methods
- Customizable results report
- Printable graphs and results

The software includes:

Analysis Menu

- Standard method as per ASTM / IP / ISO / EN / DIN... norms of reference
- Unknow sample
- Audible alarm and displayed messages at the end of the analysis and in case of errors and/or malfunction

Diagnostic Menu

- Direct access to all analog, digital, inputs and outputs
 - Selectable value displaying: °C / Volt
- #### Calibration Menu
- Automatic calibration of each temperature probe
 - Last calibration date referred to each single probe displayed and relative data printable
 - Display of calibration diagram
 - Insertion of offset values
 - Standard and advanced calibration modes

Data Utilities

- Fields for introduction of operator and product name
- Archive viewer for files recall
- All analysis stored in Excel® compatible format
- LIMS compatible

Integrated Touch Screen Panel PC

- TFT/LCD 8"
- Resolution 1024 × 768, 16.2 M colours
- 2 USB ports for connection to an external printer and/or external PC
- Storage capacity: more than 60'000 analysis

Electrical Supply

- 220V ± 15% / 50 to 60 Hz
- 115V ± 15% / 60 Hz
- Power cable with schuko plug

Ambient Temperature

- Max 35°C
- H.R. 80%

Dimensions

- width 48 cm
- depth 30 cm
- height 52 cm

Weight

- 27 Kg

Spare Parts

- LAB-700-018: PT100 cell
- LAB-700-019: pressure sensor 0...177 kPa
- LAB-700-210: PT100 conditioning
- LAB-700-022: set of o-ring for conditioning
- LAB-700-123: o-rings set for cell
- LAB-700-202: solenoid valve
- LAB-700-204: heater
- LAB-700-210: Teflon syringe
- LAB-700-255: vacuum pump
- LAB-xxx/003-04: fuse 6.3 A, box of 10 pcs.
- LAB-xxx/007-04: PCB fuse 1.6 A, box of 10 pcs.

Calibration Tools

- OilLab 80: calibration decade box – PT100 simulator
- OilLab 81: set of connectors and cables for cold range