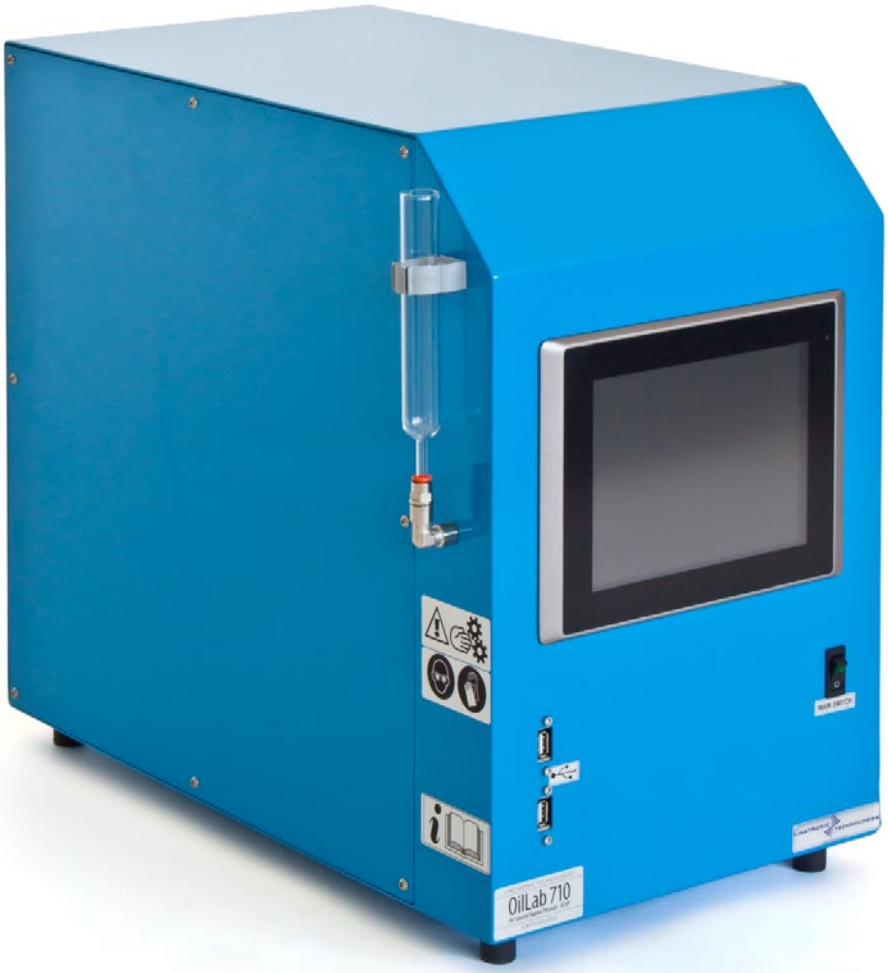
LINETRONIC TECHNOLOGIES

OilLab 710

ASVP – Air Satured Vapour Pressure



ASTM D5191a
IP 394

Subject: Gasoline

Automatic analyser for determination of Air Satured 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, 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

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 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

Cord Cable:

- 3 conductors flexible 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 AT, box of 10 pcs.
LAB-xxx/007-04: fuse PCB 1.6 AT, box of 10 pcs.

Calibration Tools

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

CE

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CERTIFIED ISO 9001:2008 COMPANY

SWISS CERTIFICATION
SCES 040