



OilLab 590 Air Release

**ASTM D3427****IP 313****ISO 9120**

Standard Test Method for Air Release Properties of Hydrocarbon Based Oils.

This test methods cover the ability of turbine, hydraulic and lubricating oils to separate entrained air.

- Automatic instrument with pre-programmed software for execute analysis in conformity with ASTM D 3427, IP 313 and ISO 9120.
- Compact bench instrument is fully independent, equipped in standard with density measurement system, heater, temperature control system, pressure regulation and microprocessor-based control system and other devices to assure perfect performance in all range of application.
- Design of the instrument is very easy to use and allows even inexperienced operator to perform routine tests.
- Automatic diagnostic of position and sensors as well as automatic calibration procedure.
- Integrated liquid conditioning system for test temperatures between +25°C and +85°C with accuracy of 0,1°C.
- Automatic conditioning of air from ambient up to +75°C with accuracy of 0,5°C.
- PT100 sensors class A able to monitor temperature of Air/Liquid/Oil sample with an accuracy of 0,1 °C.

- Instrument is equipped with automatic movement of glassware; no operator time is needed during analysis to perform changes in positions.
- Audible alarm when glassware is on movement.
- Integrated balance assures automatic density reading by using glass sinker 5 and 10 ml with accuracy < 0,5 Kg/m³, temperature control device grant temperature between +25°C and +75°C.
- Test vessel made in tempered glass, composed by external test tube with graduation at 175, 180 and 185 ml, and internal air diffuser tube with bubble dispersion baffle.
- Integrated analysis timer with 0,1 sec precision.
- Safety system with audio-visual signals against overpressure, overtemperature, lack of air flow and low liquid level.
- Real-time graph creation for density and temperature over the time.
- Unit is managed by an integrated computer with high visibility 10" touch screen:
 - Internal memory capable of storing up to 30'000 tests
 - High brightness and resolution 1280 x 800 dpi
 - 2 x USB ports, 1 x RJ45 Ethernet / Lims
- Software features:
 - Possibility to change pressure unit between: bar / Psi / kpa
 - Possibility to change temperature unit between: °C / °F
 - Files export in .xls format

Power supply

- 220 Vac 50/60 Hz
- 115 Vac 50/60 Hz

Dimensions

- width 61 cm
- depth 58 cm
- height 86 cm

Weight

- 62 kg

Air Input

- Mandatory compressed air supply at least 6 bar pressure, clean and dried, unit is equipped with quick-connection mechanism with 1/8" BSP female connection.

Air Output

- Unit is equipped with a rear connection for exhaust oils fumes, a tube of inside diameter 8 mm with a length of min. 1 meter and with 0 bar backpressure is highly recommended.

Spare Parts

- 2499: External condenser / test tube.
- 2500: Internal tube with air diffuser tube and breaking bubbles flange.
- 2518: Floating for density determination 5 ml.
- 2565: Floating for density determination 10 ml.
- 3786: Water pump, high temperature.
- 17506: PT100 sample temperature.
- 17161: Heater, pack of 2 pcs.