



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

AIR RELEASE VALUE TEST APARATUS OF LUBRICATING OIL - (ASTM D3427)



Compliance with following International Standards:

ASTM D3427, IP 313 and IS : 1448 (P-102)

Purpose:

- The ability of turbine, hydraulic, or lubricating oil to separate entrained air is a key performance characteristic in applications where agitation causes a dispersion of air bubbles in the oil. To determine air release properties, the sample is heated to a specified test temperature and blown with compressed air. After the air flow is stopped, the time required for the air entrained in the oil to reduce in volume to 0.2% is the air bubble separation time.

Construction Details :

The entire assembly consists of following parts and accessories to form the complete test apparatus.

- The main unit comprises of an air heater, fine control pressure regulator (Flow meter), pressure gauge, and mounting clip for the test vessel.
- Steel wire for sinker suspension
- Moisture trap
- Pressure gauge specifications : 0.35KPa with divisions at least every 2KPa and an accuracy of 1.5KPa with needle valve
- Manual lifting in slider area to move test vessel from air source to sinker facility
- Integrated touch screen programmable controller with data logging facility
- Integrated Digital automated density balance with stand and sinker to directly measure the density value
- Integrated Digital constant temperature circulating bath with circulating pump of flow rate 10 LPM
- Automatic calculation of final sample density for determination of air release value

Technical Specifications of circulating waterbath:

- Excellent control accuracy and uniformity due to its modular and innovative design.
- Outer chamber is made from Galvanized Sheet - which is powder coated in attractive shades

- Inner chamber is fabricated from S.S.304 - Mirror polished material
- Fully argon welded design
- 50mm thick Glass wool Insulation is provided between the inner chamber and exterior body to prevent the direct thermal loss
- Specially designed immersion Heater for heating within the set point temperature
- ISI marked immersion Heater - U shaped
- Built - in boost for initial heating
- Stirring is achieved by an efficient, continuously rated, self cooling motor with SS shaft and propeller of anti - corrosive Material,
- Stirrer is fitted on side of the bath allowing obstruction free usage of working area.
- Circulatory Pump to circulate the bath water to external apparatus
- Entire instrument Works on 230 Volt, 50 Hz, Single phase, AC Supply

Technical Specification

•Capacity	: 220 grams
•Readability	: 0.1 mg
•Repeatability	: 0.2 mg
•Linearity	: 0.2 mg
•Pan Size	: 90 diameter
•Response time (sec)	: <5-8
•Calibration	: Auto calibration
•Temperature Range	: Ambient + 5 °C to 120 °C
•Temperature Accuracy	: ± 0.1 °C at 20 °C, 50 °C & 75 °C
•Temperature Uniformity	: ± 0.2 °C at 37 °C
•Overall size	: 57 cm L x 30 cm W x 22 cm D
•Working size	: 35 cm L x 30 cm W x 17.5 cm D
•Bath Volume	: 18 Liters
•Rating	: 1.5 KW
•Voltage / Power	: 230 Volt, 50 Hz, Single phase, AC Supply
•Supplied with	: Supplied with under weighing hook and steel wire for sinker suspension

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