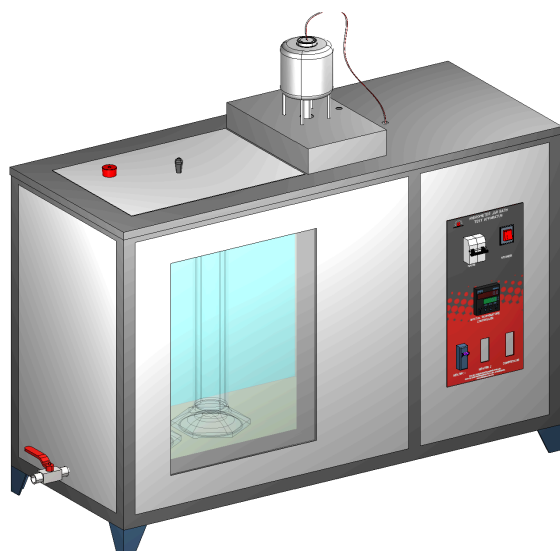




EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

DENSIMETRY BATH-(API GRAVITY OF CRUDE PETROLEUM OIL)-(HEATING)-(ASTM D1298, D3142)



Compliance with following International Standards:

ASTM D70, ASTM D71, ASTM D287, ASTM D1298, ASTM D1481, ASTM D3142, ASTM E100, IP 160, IP 189, IP 190, ISO 3675, ISO 3838

Scope:

Covers the laboratory determination using a glass hydrometer, of the density, relative density (specific gravity), or API gravity of crude petroleum, petroleum products, or mixtures of petroleum and non-petroleum products normally handled as liquids, and having a Reid vapor pressure of 14.696 psi (101.325 kPa) or less

Significance & Use:

Density, relative density or API gravity is a factor governing the quality and pricing of crude petroleum. Density is an important quality indicator for automotive, aviation and marine fuels, where it affects storage, handling and combustion.

Test Apparatus:

Consists of Glass water bath, Hydrometer cylinders and thermometers. Detailed description is narrated as per following.

1) Constant temperature water bath:

- Made of Clear, transparent glass material
- Dimensions of water-bath: **70 x 35 x 60 cm (W x D x H)**
- Volume of water bath tank: **42 Liters**
- **Tank cover having three holes of 51 mm diameter, which allows three hydrometer cylinders to get inside the bath**
- **Tactfully designed Stainless steel clamps will hold all the graduated jars in place.**
- Heating supplied by an armored stainless steel heater placed inside the bath
- Stainless steel stirrer paddle for uniform temperature distribution throughout the chamber.

- Temperature range: **35 °C to 100 °C**
- Temperature controller: **AUTO-TUNE PID temperature controller cum indicator**
- Temperature sensor: **PT-100 Probe**
- Temperature Accuracy: **± 0.5 °C or Better**
- Temperature Resolution: **0.1 °C**
- Heater watts: **4 KW**
- Power supply: **230 Volt, 50 Hz, Single Phase, AC Supply**

2) Hydrometer cylinders:

- Made of Borosilicate material
- Transparent glass with uniform thickness and base size.
- Height: **440 mm**
- Diameter: **50 mm**
- No of cylinders supplied : **03 Nos**

3) Thermometers (At extra cost):

- Supplied with ASTM 12C - IP 64C thermometer
- No of thermometer supplied : 01 no

Note:

- To achieve below room temperature inside the bath, refrigeration system is required, which should be ordered at extra cost.
- Refer to the optional accessories section.

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