



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

## EMULSION TEST-WATER SEPARABILITY TEST APPARATUS- MANUAL LIFT & PLACEMENT-ASTM D1401

### Compliance with following International Standards

ASTM D1401

### Purpose

This test method covers measurement of the ability of petroleum oils or synthetic fluids to separate from water. This test method provides a guide for determining the water separation characteristic of oils subject to water contamination and turbulence. It is used for specification of new oils and monitoring of in-service oils.

### Brief Construction Details

Following accessories will be the part of standard supply.

1. Heating bath
2. Common Stirring paddles (Common electric motor)
3. Four test cylinders of 100 mL capacity
4. Digital temperature controller with Manual Lifting and Placement arrangement of stirrer



The detail descriptions of these parts and accessories are given below.

### 1) Heating Bath

- Double walled water-bath with inlet provision
- Rectangular shape
- Stainless steel structure
- Outer body fabricated from Mild Steel material - Powder coated in attractive shades
- Inner chamber fabricated from Stainless Steel - 304
- Heavy insulation between inner chamber and exterior body
- **Capable enough to maintain bath temperature at  $54^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  and at  $85^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$**
- Bath section is fitted with efficient heating elements and PT-100 temperature Sensors
- Temperature is controlled by individual Microprocessor based dual display digital PID Temperature indicator cum controller

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GST TIN No. : 24AABCE4018L1ZU  
I.T. PAN No. : AABCE 4018L  
IEC No. : 0813026598 Dt. 04/03/2014  
CIN No. : U29199GJ2004PTC045078  
TAN No. : AHME00572F



- Heating bath is equipped with 4 different test holes, 4 test cylinders and stainless Steel stirrer
- Entire Unit can accommodates 4 test positions - 4 test cylinders
- Temperature control accuracy :  $\pm 0.2^{\circ}\text{C}$
- Temperature display : LED
- Temperature range :  **$5^{\circ}\text{C}$  above ambient to  $100^{\circ}\text{C}$**
- Supplied with over temperature protection safety cut-off system
- Unit is also equipped with **RPM indication and speed regulator**

## 2) Stirring paddles

- Material : Stainless steel material
- Length, mm (in) :  $120 \pm 1.5$  ( $43.4 \pm 1.16$ )
- Width, mm (in) :  $19 \pm 0.5$  ( $3.40 \pm 1.64$ )
- Thickness, mm (in) :  $1.5$  ( $1.16$ )
- Revolution per minute :  **$1500 \pm 15$  rpm**

## 3) Test cylinders

- No of cylinders supplied : 04 Numbers
- Graduation : 5 to 100 mL in 1.0-mL divisions
- Capacity : 100-mL capacity
- MOC : Made of heat-resistant glass
- Inside diameter of cylinder : Between 27 - 30 mm throughout its length
- Overall height of cylinder : 225 - 260 mm

## 4) Digital Temperature controller with Manual Lifting and Placement arrangement

- **Manually Lift the stirrer at the end of test cycle and place it in another test position**
- **Operator should remain present to detect the end of 5 minutes test and to initiate the new test**
- Digital temperature controller with sensor as per ASTM D1401 Guidelines
- Offers Quick and smooth operation
- Easy cleaning and low maintenance

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