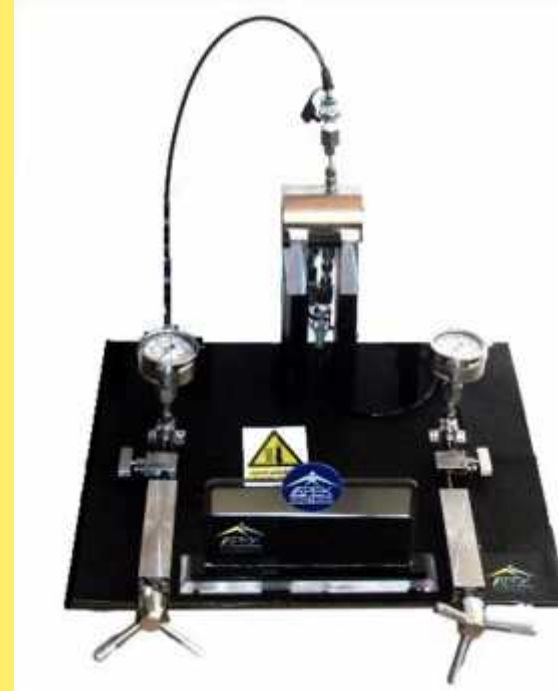


ماڙول اندازہ گیری کشش بین سطحی

Interfacial Tension Measurement Module (IFT-10000-Module)



Apex technologies co., designed and manufactured a new generation, compact and easily portable high pressure high temperature pendant drop interracial tension module rated for maximum pressure and temperature of 10000 psi and 150 °C basically made of stainless steel 316 L. This module is one of the most applicable equipments in different areas to measure the IFT of HP-HT liquid-liquid and gas-liquid systems and even to investigate the asphaltene onset pressure and minimum miscibility pressure (MMP). The equipment is comprises of a annulus type main chamber has four ports two of them for needle positioning and two of them for bulk and drop injection into the main chamber. The annulus chamber is designed in way that it is possible to position both of the upward and downward drop injection needles concomitantly make the drop injection for various fluid so easy.

Technical Specifications:

- Applicable for Measuring IFT, Contact angle and minimum miscibility pressure measurements, etc
- Heating system included a controller and three slim elements (implanted into the visual cell wall) and one thermocouple (implanted into the visual cell wall)
- Number of ports: 4 (two ports compatible for needle installation and two ports compatible for NPTF connections)
- Heating Controlling system is included which controls the temperature of the system up to 130 °C
- Number of Gland and Collars: 20 (single ferrule sealing mechanism, BuTech Type)
- Compatible to be heated with slim elements: three 6 mm port (length of 60 mm)
- Heating system × 1 (controlling the temperature of the system)
- Sight glass materials: Sapphire and Stainless Steel Gland
- Number of O-rings: 30 (EDR and Viton Type)
- No digital pressure transmitter is included
- Maximum working temperature: 130 °C
- Maximum working pressure: 10000 psi
- Wetted material: Stainless Steel 316 L
- Needle material: Stainless steel 316 L
- Visual Cell inside diameter: 30 mm
- Valves: 4 (Autoclave/BuTech)
- Visual Cell volume: 25 cc
- Number of needles: 2
- Hand pump: 2