

دستگاه رفتار فازی
PVT (LCPVT-3000)



Apex technologies co., designed and manufactured a new and so compact oil PVT cell comprises an embedded high-pressure pump to control and monitor the fluid's pressure and volume within the cell. A video camera system continuously surveils the gas/liquid interface to precisely control the interface of gas/liquid. Cell rotation is achieved via a powerful rocking mechanism. A new and so simple magnetically coupled stirrer mounted inside the sample chamber provides efficient fluid mixing and ensures fast thermos-physical equilibrium. In addition, homogeneous sample heating is generated by an efficient isothermal heating jacket. Apex Reservoir Fluid PVT Analysis System comprises of one set of PVT instrument and some ancillary equipment, as gasmeter, HP pressure sample cylinders, HP single pumps, etc. is able to perform analysis of different GOR reservoir fluids as crude oil, volatile oil under high pressure and temperature conditions.

Technical Specifications:

- ✓ PC/Touch panel× 1: Equipped with a software for controlling the system (any of this are available based on the client order)
- ✓ Visual monitoring of bubble point appearance and disappearance
- ✓ It is applicable to be utilized for recombination purposes
- ✓ Simple, compact and efficient magnetic mixing system
- ✓ Camera for online monitoring of the visual section
- ✓ Equipped with two HP-HT sapphire sight glasses
- ✓ Pressure transmitter accuracy: 0.2 % full scale
- ✓ Rocking system to rotate the main vessel
- ✓ Operating valves: BuTech/Autoclave
- ✓ Temperature: Ambient to 130 °C
- ✓ Temperature resolution: ± 0.1 °C
- ✓ Maximum pressure: 200 bar
- ✓ Applicable just for crude oil
- ✓ Volume accuracy: 0.001 cc
- ✓ PVT cell volume: 200 cc
- ✓ Stainless steel 316 L
- ✓ Dead volume: 5 cc
- ✓ Easily portable