



General Features

Black Oil PVT cell is an automatic motorized piston driven system, equipped with Infra-Red detector for bubble point. Special designed magnetic stirrer is equipped on top of piston for stirring of heavy oil (viscosity up to 5 000 cP), manual mechanism rotation. The control cabinet is able to manually set, control and record the temperature, pressure and volume of the BO PVT Cell.

Specifications	
Max. Working pressure	1000 bar (100 Mpa)
Max. Working Temperature	200°C
PVT Cell Volume	200 ml
Pressure Accuracy	0.01 MPa
Temperature Accuracy	+/- 0.1°C
Bubble Point Accuracy	+/- 0.03 Mpa
Volume Accuracy	+/- 0.0001 ml

The system is supplied with PVT data processing, Falcon® control software and macro functions for automation, with synoptic giving access to data acquisition and graphs. This software controls all P, V, T parameters from sensors, motor, etc. Computer cans control experiment processing and do the acquisition and processing of experiment data.

The PVT cell uses piston gasket, no O-ring, for high temperature and pressure. Each set of piston gasket can be used for more than 100 black oil sample analysis without disassembly. The cell can be returned head up and down. Incorporated valves and diaphragm sensor avoid dead volume.

Characteristics

- Special strong stirrer design
- No O-ring for piston sealing
- Sapphire window on top of cell
- Visual width: 3 mm
- Visual length: 10 mm
- Incorporated valves
- Flush membrane sensor
- Automatic interface gas-oil detection
- Mercury-free



Example of Synoptic

