PRODUCT DATASHEET

PVT Apparatus for Reservoir Fluids

Phase behaviour of oil and gas





DETAIL – PVT CELL WITH SIGHT WINDOW

OVERVIEW

The Tech Inc. PVT Apparatus for Reservoir Fluids measures how reservoir oil and gas change volume and phase with pressure and temperature. A variable-volume cell with a sight window sits in an air bath; a motorised pump sets the pressure and a camera watches the fluid, giving bubble and dew points, compressibility and liberated gas.

MODELS AND CONFIGURATIONS

- **Oil PVT** – bubble point, CCE and DL.
- **Gas condensate PVT** – dew point and CVD.
- **EOR PVT** – swelling tests with gas injection.

TYPICAL DESIGN DATA

Model	TI-PVT-700 series
Pressure	Up to about 700 bar (10,000 psi)
Temperature	Ambient to 180 °C
Cell volume	About 100 to 400 cm^3
Detection	Visual window and camera
Wetted parts	Stainless steel or Hastelloy, mercury-free

APPLICATIONS

Black oil and volatile oil PVT, gas condensates, EOR gas injection studies, CO_2 and hydrogen storage phase behaviour.

KEY ADVANTAGES

- **Mercury-free** – safe motorised pump
- **Visual** – phase changes seen, not inferred
- **Complete** – standard PVT tests in one cell
- **Recorded** – automatic data and reports

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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