

PVT System Provides Accurate, Repeatable Results

The Grace Instrument M9700 PVT System is designed to study the phase behavior of hydrocarbon fluids. The system is mercury-free, featuring high pressure pumps, which generate the required pressure for testing operations. Test fluid volume is monitored for expansion or contraction while under varying conditions of temperature, pressure, and volume.

These conditions are computer-controlled and are completely customizable through user-designed test sequences created with the included PC software.

Efficient & Dependable PVT System

The M9700 analyzer can be used either at a field location or in the laboratory. The PVT cell features a window through the cell wall, allowing visual observation of the sample fluid during test operations. The apparatus can perform constant mass expansion tests (i.e. CME), constant mass depletion (i.e. CMD), differential vaporization studies (i.e. DV), constant volume depletion (i.e. CVD), swelling test, separator test, dissociation point of gas hydrate, and more.

During test operations the software records test data, including pressure, total volume, retrograde liquid volume, and temperature. The instrument's hardware components blend the fluids while providing conditions of pressure and temperature. The recorded data can then be exported in .CSV format and opened in spreadsheet program to derive the PVT parameters.



Operational Features

- Mercury-free design
- Computer-controlled data logging
- Visual observation cell
- Constant temperature control system
- Detection in both oil and gas condensate studies
- Designed for maximum accuracy and operator safety
- Innovative data analysis algorithms
- Comparison of current test data with historical test data
- System hardware and software customized to your specifications

PVT System Specifications:

Temperature Range:	Up to 205°C
Pressure Range:	Atm to 15,000 psi / 104 MPa
Volume Accuracy:	0.01 cm ³
Cell Volume:	400 ml and above
Temperature Reading:	±0.2 °C
Voltage:	220 - 240VAC
Frequency:	50 or 60 Hz

