Taha Kimia Tajhiz Co.

CHANDLER

PVT Phase Behavior System Model 3000

Datasheet

PVT Studies

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Model 3000

PVT PHASE BEHAVIOR SYSTEM

A Precision, Multi-Tasking Instrument For Understanding The Behavior Of Complex Mixtures

The study of thermo-physical properties of fluids such as phase behavior, density, viscosity, etc. under varying conditions of pressure, temperature and volume is commonly known as PVT studies. The Model 3000 PVT System is a precision instrument used to perform PVT studies on a variety of fluids with a special emphasis on those fluids typically encountered in petroleum reservoirs. Types of studies commonly conducted with a Model 3000 PVT System include:

- Oil Analysis / Recombined Fluid
- Oil Analysis / Capillary Viscosity
- Oil Analysis / Capillary Viscosity / Density
- Oil Analysis / Solids Detection
- Oil Analysis / Gas-Condensate Analysis
- Gas-Condensate / Low GOR
- Gas-Condensate / High GOR
- Chemical and Solvent Evaluation

Our PVT systems are mercury-free, more capable and easier to use. Computer-based data acquisition and control software makes is easy to set-up and perform PVT tests while electronically logging key test data.

Chandler Engineering's PVT products have been the world's leading line of PVT equipment since 1945. The Model 3000 PVT Phase Behavior System is the most widely accepted analytical (PVT) system in both domestic and international scientific laboratories.

FEATURES

- ✓ Mercury-Free Design
- ✓ Computer Controlled Data Logging
- ✓ Visual Phase Boundary Detection in Both Oil and Gas Condensate Studies
- ✓ Large Cell Volumes
- ✓ Flexible Configuration for Various Studies
- ✓ Optional Modules for Measuring Density, Viscosity and Solid Precipitation
- ✓ Designed for Operator Safety

AMETEK® OIL & GAS

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Specifications

Maximum Operating Pressures	
Pump Cell	15,000 psi / 104 MPa
Auxiliary Cell:	
Gas Condensate Cell	20,000 psi / 138 MPa
Floating-Piston Cell	15,000 psi / 104 MPa
Mini Cell	15,000 psi / 104 MPa
Maximum Operating Temperature	400°F / 204°C
Pressure Accuracy	0.1 % of Full Scale
Cell Volumes (approximate)	
Pump Cell	400 cm^3
Gas Condensate Cell	1000 cm^3
Floating-Piston Cell	600 or 1600 cm^3
Mini Cell	100 cm^3
Volume Accuracy	0.1 cm^3
Liquid Condensate Volume Accuracy	± 0.01 cm^3
Temperature Regulation	± 0.5°C
Environmental Requirements	60°F to 104°F / 15°C to 40°C 20% to 90% RH, non-condensing

Utilities

Power Requirements	220-240 VAC, 50/60 Hz, 1 phase, 25 A (6000 Watts) Max.

Physical Dimensions

Dimensions (wxdxh)	51 x 38 x 95 in. / 130 x 97 x 241 cm not including external pump.

Shipping Information

Gross Weight	approx.1350 lb / 610 kg, not including optional modules or external equipment

Manufacturer's specifications subject to change without notice

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