

Asphaltene and Wax Detection and Investigator Apparatus

The Asphaltene and Wax Detector and Investigator Apparatus is designed to detect the onset of asphaltene precipitation, the effect of fluid inhibitor on asphaltene flocculation, precipitation, and deposition, and to study the growth of wax crystals and asphaltene solids due to pressure, and temperature changes, and in presence of inhibitors.

The high pressure sample is injected into fluid visual chamber in application of Back Pressure regulator. Following by desired pressure and temperature changes, the onset of asphaltene precipitation is determined through visual observation of formation of solid particles in the fluid. Subsequent studies regarding physical change of solid particles and/or effect of inhibitors can be hold by the versatile apparatus.



Specification	AWD -PS01	AWD –PS02
Maximum Working Pressure	6,000 Psi	10,000 Psi
Maximum Working Temperature	90 °C	150 °C
Particle Size Detection	From 0.2 μm	From 0.2 μm
Wetted Parts Material	Stainless Steel, Quartz	Stainless Steel, Quartz
Microscope Zoom	✓	✓
House Software for Particle Size Distribution Measurement	✓	✓
Solid Detection System	✓	✓
Organic Solid Filter	✓	✓
HPHT Circulation Pump	✓	✓

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