

### ***High Pressure, High Temperature, Flow Assurance System.***

The M9710 Flow Assurance System (FLASS) is an advanced system used to perform precipitation testing in fluid flows that are subjected to high pressure and high temperature downhole conditions. The simulated downhole conditions offer a realistic solution to decrease line blockage from fluid flow within drilling operations.

The device uses two 100 milliliter pumps to push sample fluid through the test cell and a third HPLC pump for chemical injection. Solids that form are trapped in a filter and weighed by the data acquisition software and values can then be exported to the user's preferred spreadsheet software for easy analysis.

A high definition video camera and 4.5x magnification microscope are included for viewing of solid formation inside the test cell.



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### ***Operational Features:***

- *Two 1 000 mL accumulators for sample loading.*
- *Data recorded in .csv file format for easy analysis with Excel or other spreadsheet programs.*
- *Test cell can be viewed and recorded using the microscope and camera.*
- *User friendly, Windows-based system.*
- *Software handles all control, measurement, data collection, and report generation.*
- *Includes magnetic mixer and chemical injection pump for simulating additional flow conditions.*

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### ***Specifications:***

Maximum confining pressure:	10,000 psi (690 bar)
Maximum temperature:	205 °C (400 °F)
Pump Volume:	100 mL
Cell Volume:	200 mL
Accumulator Volume:	1,000 mL
Wetted Material:	HC-276 Hastelloy (Accumulator & Fittings) SS-316 Stainless Steel (Pump)
Power Requirement:	110-220 VAC, 50 or 60 Hz

*\*Other specifications are available by customized request.*