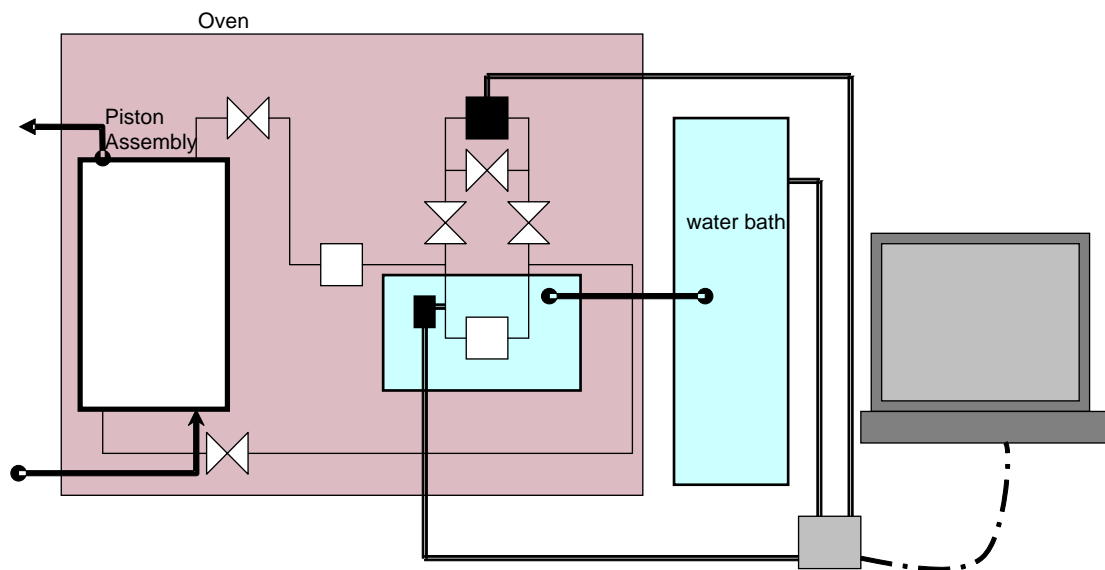


Wax Appearance Temperature (WAT)/ Wax Dissolution Temperature Apparatus (Live Crude Studies)

Process Measurement and Control Systems Limited (PMAC) was formed in 2000 to offer specialised products and services to the Oil and Gas industry worldwide. Based in Europe's Oil and Gas capital PMAC covers a worldwide market and have gained a reputation for innovative solutions. PMAC have built their reputation on value added services, operational solutions and are renowned worldwide. PMAC have designed and developed products for monitoring scale and wax in process pipe work and a number of corrosion monitoring systems.

Wax Appearance Temperature (WAT)/Wax Dissolution Temperature (WDT) Base Unit



- Once Oil is loaded test is fully automated
- Difference between onset and complete Dissolution can be seen
- Dead, Live and synthetic crudes can be used
- Pressure can be dropped so WAT/WDT can be measured for across a range of pressures



**Flow Assurance
Specialist**

**Process Measurement and
Control Systems**
Unit 27, Wellheads Industrial
Centre, Wellheads Crescent, Dyce,
Aberdeen, AB21 7GA
Tel: +44 (0) 1224 722 337

- Suitable for Highly viscous Crudes

Technical Specification

Max System Pressure 7500psi
Temperature Range ambient to 149°C (7500psi)
Supplied on a trolley stand approx W1.5m x D0.8m x H2.0m

Optional Upgrades:

Asphaltene Module

PMAC's Asphaltene Software additions and accessories to the WAT/ WDT Apparatus allows the flexibility of the Instrument to provide a live crude oil measurement capability for Asphaltene; bypassing the pre-filter, and allowing for samples to be taken at different Pressures and the percentage Asphaltene content (drop out) measured using IP143.

Viscosity Module

PMAC's Viscosity Software additions and accessories to the WAT/ WDT Apparatus allows the flexibility of the Instrument to provide a viscosity measurement on dead or live crude oil, synthetic live crude and different GORs; calculated using pressure drop.

Crude Homogenisation Rig

PMAC strongly recommend serious consideration should be taken in ensuring live crude oils are restored to their original conditions before any sub-sampling and analysis is taken.

The sample is agitated using a rocking mechanism, whilst pressure is maintained; monitoring the crude condition is carried out to ensure complete restoration.

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