PRODUCT DATASHEET

Dean-Stark Extraction Apparatus for Core Saturation

Water and oil saturation of cores





DETAIL – FLASK, TRAP AND CONDENSER

OVERVIEW

The Tech Inc. Dean-Stark Extraction Apparatus for Core Saturation measures the water and oil saturation of core samples by distillation-extraction. Boiling toluene vapour rises through the core, water distils with it and collects in the graduated trap, and the solvent extracts the oil; water volume and the core's weight loss give both saturations.

MODELS AND CONFIGURATIONS

- **Three-station set** – small laboratories.
- **Six-station set** – routine core analysis.
- **Soxhlet option** – core cleaning only.

TYPICAL DESIGN DATA

Model	TI-DSE-300 series
Stations	3 or 6
Trap	Graduated, 0.05 mL resolution
Solvent	Toluene or as specified
Core size	Plugs and whole-core pieces

APPLICATIONS

Routine core analysis of preserved cores, fluid saturation for reserves, and cleaning cores before porosity and permeability tests.

KEY ADVANTAGES

- **Proven** – a long-standing reference method
- **Parallel** – several cores at once
- **Complete** – glassware, heaters, frame and chiller
- **Clean** – cores ready for further tests

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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