

Dean Stark - Soxhlet



Dean Stark: Is an analytical laboratory Equipment, used to measure the fluid saturation of rock samples. Through solvents, the water and oil that saturate the sample are extracted and distilled; the product of the distillation is condensed over a calibrated trap which by decantation separates water from the solvent and allows quantification.

Soxhlet: Is a system used to remove oil and brine from the rock samples by extraction with solvents, these are evaporated and canalized towards the condenser where they cool down and drip over the sample. The chamber that contains the rock fills up gradually of warm solvent executing the extraction. Once the recipient is full, it empties by siphon effect and the solvents return to the flask where they are purified by evaporation. The cycle can be repeated several times and requires low supervision during operation.

Heating Units (Dean Stark): composed of 6 aluminum heating mantles with round bottom flasks of 500 ml. Each one of the, has an independent and adjustable temperature controller.

Heating Unit (Soxhlet): Composed of an aluminum heating mantle, with round flask of 4000ml and adjustable temperature control.