For many core analysis measurements, samples are cleaned out of pore fluids and contaminants then either measured in a dry state or with partial or full re-saturation. Cleaning and drying of rock samples can be achieved using many different techniques; Soxhlet is the fastest method. Hot Soxhlet solvent extraction can be used to rapidly clean samples. In the Soxhlet apparatus, the sample soaks in hot solvent that is periodically siphoned off, distilled and returned to the sample. The process continues until the siphoned-off solvent becomes clear. This may take from a few, to several hundred hours depending upon permeability and the viscosity of the oil in the pores.

FEATURES:

•Cleans consolidated (and mounted) core samples by soaking in clean, hot solvents and recycling the contaminated solvent automatically with new clean solvent

•Several models to choose from for small sample sizes to full diameter sizes

SPECIFICATIONS:

•Various unit sizes available:

•Small plugs: 1.0", 1.5", 30 mm diameter, up to 4" long

•Mid size plugs: 2" diameter, up to 4" long

•Whole core/Multi-plug offset extractor: up to 4" diameter, up to 4" long

Dean Stark System (Cleaning)

It is possible to obtain the initial water saturation and water composition from preserved core and core plugs through distillation extraction. A complete unit consists of an electric heating mantle, boiling flask, thimble for holding the sample, trap or calibrated sidearm, and condenser.

FEATURES:

•Different sizes of length and diameters of core plugs can be examined

•Saturation is determined by the original weight of the sample and the water volume measured through this instrument

SPECIFICATIONS:

•Single small plugs: 1.0", 1.5", 30 mm in diameter; up to 4" in length

•Single mid-size Plugs: up to 2" in diameter and 4" in length

•Full diameter cores: up to 4" in diameter and 4" in length

•Soxhelt extraction (cleaning)