



Soxhlet distillation extraction removes liquid phases (oil and brine) from core samples by virtue of a solvent vaporization and condensation process. The cleanliness of the sample is determined from the color of the solvent once it has permeated from the samples and condensed. The samples are placed in the extractor and cleaned by refluxing solvent. The solvent in this closed system is externally heated and vaporized continuously in a flask, flow through the samples in the extraction tube, condenses at the top of the assembly. The condensate falls back into the sample chamber. When the latter is full, the dirty solvent returns to the flask via a siphoning reflux sidearm located at the base of the sample chamber. Due to the difference in boiling point temperatures, only the solvent evaporates while the oil finds itself trapped in the flask. The apparatus consists of a distillation / extraction glassware unit and a heating mantle with thermostatic controller. The first comprises a boiling flask, soxhlet extractor and condenser. Flexible plastic tubing connects the condenser to the water cooling unit. The assembly is supported by a clamp screwed to a vertical rod, itself fixed to the heating mantle.



Technical Specification:

Three series sample cleaning sequence
500 cc Heating mantle (heating places: 3): 1
<ul style="list-style-type: none"> • Body: Steel, with chemically resistant powder coating. • Cover: High-grade stainless steel. • Asbestos-free ceramic wool. (fiber glass) • Ni-chrome wire • Woven glass fiber mat • Up to 300 °C, Maximum • AC 110~220V (or 220~230V), 50/60Hz • Weight: 5 Kg • Power: 800 W
Holder: 2
Core diameter: 1 and 1.5"
Core length: up to 3.5"
Thimble volume: 250 cc
Chiller system with tuneable inlet temperature for circulating water coolant