Soxhlet Extractor

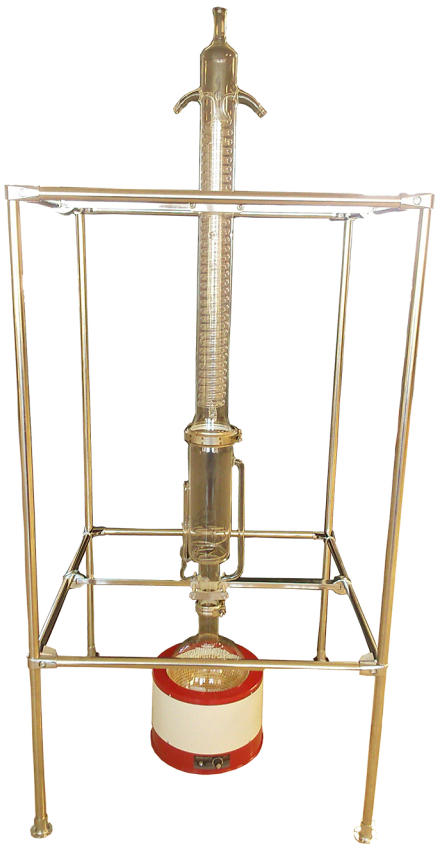
SO-R30

Description:

The Soxhlet extractor was originally developed for the purpose of extracting lipids from solid materials. This method is typically employed when the desired compound has limited solubility in a solvent, and the impurity is insoluble in that solvent. The Soxhlet extractor comprises three primary components: a percolator (boiler and reflux) that circulates the solvent, a thimble (typically made of thick filter paper) that holds the solid to be extracted, and a siphon mechanism that periodically empties the thimble. The solvent is heated to its boiling point, condensed, and then returned to the original container. The solvent vapor ascends a distillation arm and floods into the chamber containing the solid thimble. The condenser ensures that any solvent vapor cools and drips back down into the chamber containing the solid material, gradually filling it with warm solvent. When the Soxhlet chamber is nearly full, it is emptied using a siphon, and the solvent is returned to the distillation flask. The thimble prevents any solid material from being carried to the still pot by the rapid motion of the solvent. The Soxhlet distillation extraction method is utilized for dissolving and extracting oil and brine from rock core samples using solvents.

Technical Specification:

- Maximum core sample diameter: 4"
- Maximum core sample length: 8"
- Maximum working temperature: 450 ℃
- Extraction capacity: 3 liters
- Solvent balloon: 5 liters
- Water cooling system
- Specific structure for safely assembling the system



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