Models:
ACM-54097 W

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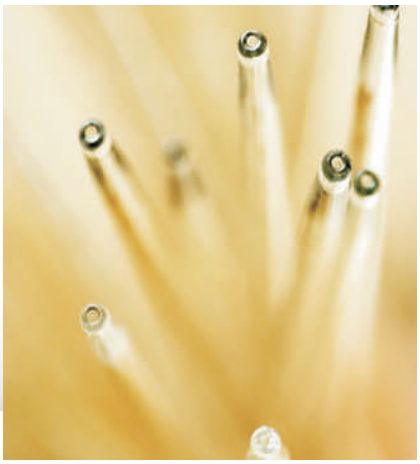

SOXHLET
EXTRACTION UNIT

WEIBER®

Models:

- ACM-54096 W

SOXHLET EXTRACTION UNIT

Process and Technology Explanation ;

The equipment was originally designed for the extraction of a lipid from a solid material. However, a Soxhlet extractor is not limited to the extraction of lipids. Typically, a Soxhlet extraction is only required where the desired compound has a limited solubility in a solvent, and the impurity is insoluble in that solvent. If the desired compound has a high solubility in a solvent then a simple filtration can be used to separate the compound from the insoluble substance.

Normally a solid material containing some of the desired compound is placed inside a thimble made from thick filter paper, which is loaded into the main chamber of the Soxhlet extractor. The Soxhlet extractor is placed onto a flask containing the extraction solvent. The Soxhlet is then equipped with a condenser.

The solvent is heated to reflux. The solvent vapour travels up a distillation arm, and floods into the chamber housing the thimble of solid. The condenser ensures that any solvent vapour cools, and drips back down into the chamber housing the solid material. The chamber containing the solid material slowly fills with warm solvent. Some of the desired compound will then dissolve in the warm solvent. When the Soxhlet chamber is

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SOXHLET EXTRACTION UNIT

almost full, the chamber is automatically emptied by a siphon side arm, with the solvent running back down to the distillation flask. This cycle may be allowed to repeat many times, over hours or days.

During each cycle, a portion of the non-volatile compound dissolves in the solvent. After many cycles the desired compound is concentrated in the distillation flask. The advantage of this system is that instead of many portions of warm solvent being passed through the sample, just one batch of solvent is recycled.

After extraction the solvent is removed, typically by means of a rotary evaporator, yielding the extracted compound. **The non-**soluble portion of the extracted solid remains in the thimble, and is usually discarded.

Product Construction Details

The complete soxhlet extraction apparatus consists of solvent reservoir extraction assembly with 6 extraction places with concentric metal rings of various diameter to suit 100 ml flasks to

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SOXHLET EXTRACTION UNIT

250 ml flasks and built in steam generator. Complete with stand, clamp holder soxhlet extraction (Condenser) glass and extraction flask of 60 ml volume.

Temperature Range :

Temperature Range : 50°C to 350°C

Temperature Control:

Temperature is controlled through electronic solid state temperature controller cum indicator or micro processor based digital temperature controller cum indicator or hydraulic thermostat with energy regulators.

Temperature Sensitivity:

The temperature is controlled with an efficiency of ± 2% (Set Value)

Power Requirements:

Power 2 KW, Single Phase, 230 Volts.

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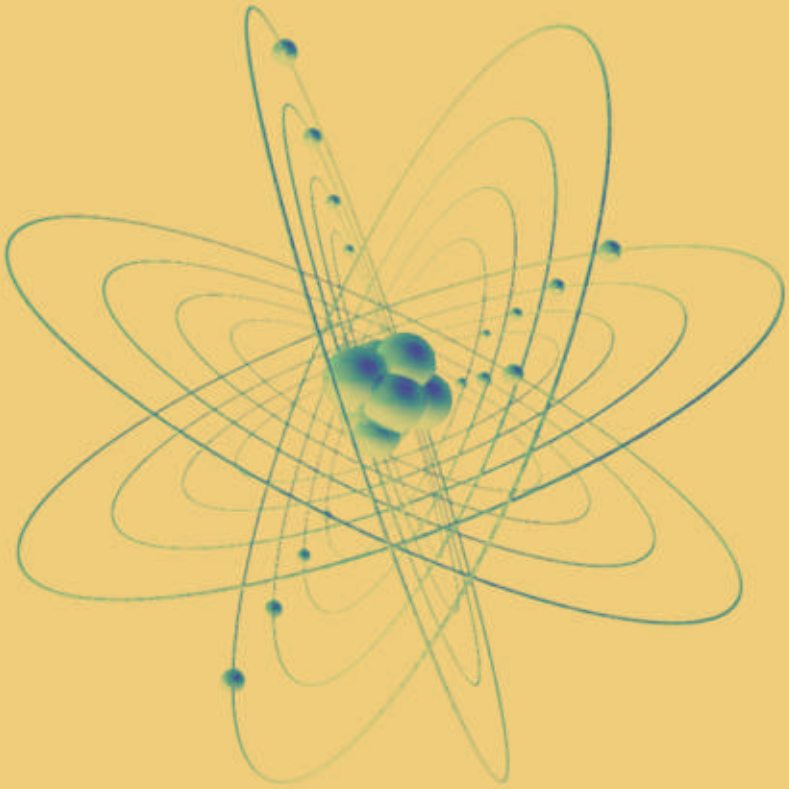

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