SOXHLET APPARATUS

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6 Stage Soxhlet Extraction unit

- ☞ 6 extraction stations-Each Position holds a soxhlet glass assembly (Flask + extractor + condenser)
- ☞ Mantle Heaters- Individual for each station with separate energy regulators.
- ☞ Supporting frame/stand -and clamps for secure assembly.
- ☞ Glassware- Borosilicate (Low expansion) Soxhlet extractors and condensers.
- ☞ Works with standard round - bottom flasks (250ml - 1000ml- Typical).

The soxhlet glass parts (Per Station) Typically include.

- ☞ Extraction body — borosilicate glass, solvent chamber with siphon.
- ☞ Condenser — e.g., Allihn or Liebig for efficient vapor cooling.
- ☞ Round-bottom flask — capacity matching the heater and extractor.
- ☞ Ground glass joints — precision fit for leak-free assembly.

Material Properties:

- ☞ Borosilicate 3.3 glass — low thermal expansion and high chemical resistance.
- ☞ Precision-formed joints for reproducible sealing.
- ☞ Compatible with common organic solvents (not HF).

Technical Specifications:-

Feature	Typical Specifications
Number of Stations	6 Stage Extraction Positions
Flask Cap per Station	250ml, 500ml, 1000ml etc.
Extractor chamber Cap	Matches Flask Size-e.g., 250-1000ml
Heating Type	Mantle heaters with individual energy regulators
Power	~220 – 230 V AC, 50/60 Hz
Total power rating	Depends on flask size: e.g., ~450 – 900 W for 3 stations (higher for larger flasks
Temperature range	Up to ~350 °C (mantle limit)
Construction	Powder-coated mild steel body with borosilicate glass components
Joint sizes	Standard ground glass: 24/29, 34/35 etc. (varies by model)

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