

# SOXTHERM®

## Automatic Rapid Extraction System



### Safety Features

- + Cooling water and air monitoring (shuts down the system in the event of a service failure)
- + Safety front window protects the operator from hot surfaces
- + Over temperature cut-off prevents flash point of the solvent being exceeded
- + Optical sensor on solvent recovery tank prevents overfilling
- + Acoustic and visual warnings inform operator of system problems
- + Illuminated glass beakers allow easy visual inspection of extraction progress

### PC Controlled Software

- + Each SOXTHERM® unit has a program window and a status window
- + At any given time, the user has a perfect overview of all functions and programs in use
- + Diagnosis function for an ideal extraction process
- + Up to 4 SOXTHERM® units are displayed on one screen

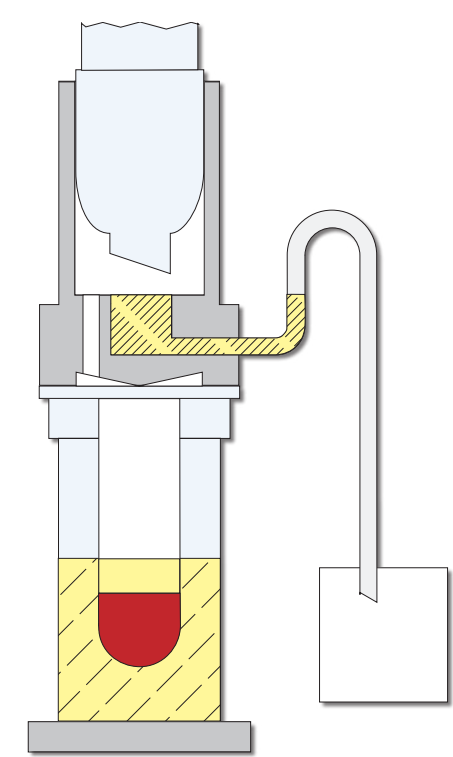


### External control unit - Multistat

- + Up to 4 individual devices with individual programme sequences can be controlled simultaneously by the control unit
- + MULTISTAT allows you to programme and save up to 20 different extraction methods
- + Start times for unsupervised extraction can be freely selected
- + The compact design of the control unit saves space in the laboratory

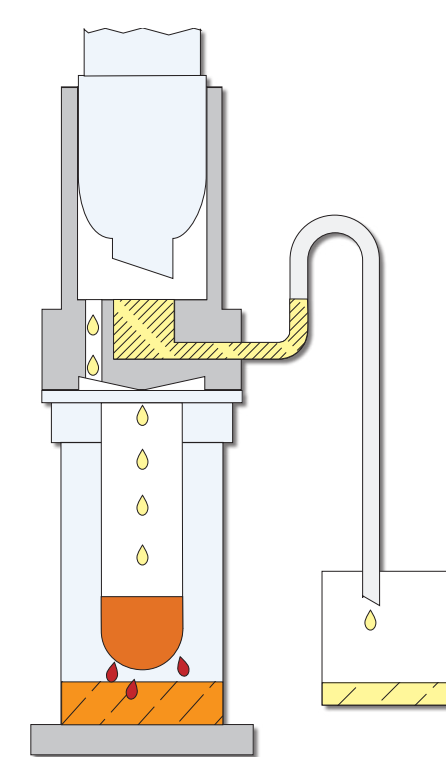


### Principle



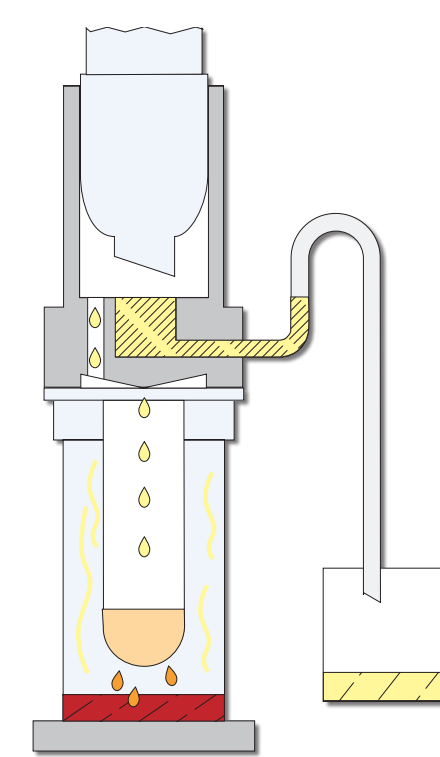
**Stage 1**

The sample is immersed in boiling solvent and the extractable material is liberated from the sample.



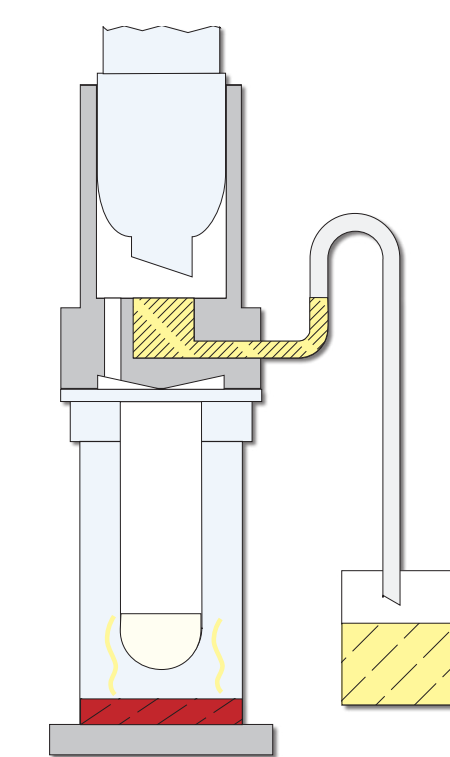
**Stage 2**

The level of the solvent is lowered below the extraction thimble. The excess solvent is collected in the rear solvent recovery tank.



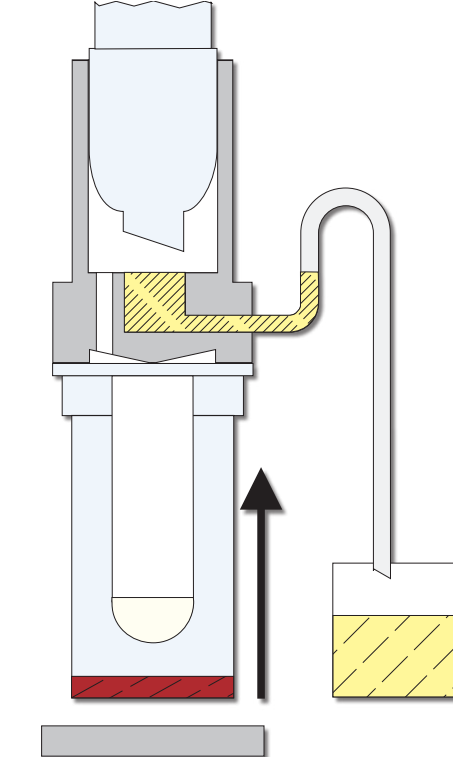
**Stage 3**

The material is extracted by the refluxed, condensed solvent and is concentrated in the extraction beaker.



**Stage 4**

The bulk of the solvent is distilled over into the rear storage tank for later recovery.



**Stage 5**

The extraction beakers are lifted from the hotplate automatically. Some of the residual solvent may be removed via convection heating.