

HYDROTHERM

Automated Hydrolysis System

Controlling Software

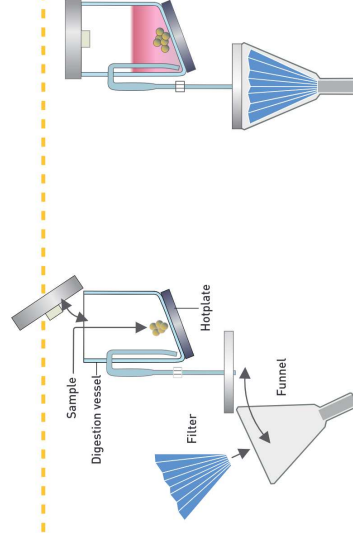
- Overview about all functions and processes, easy to operate.
- For various sample types, unlimited methods can be created.
- Programming of sample sizes, heating and cooling down periods.
- Clear overview of all three modules on only one screen.
- Data table for the documentation.
- Language selection.
- and many more...

Automatization

- Simultaneous analysis of up to six samples.
- Dosing of the acid.
- Temperature / energy control.
- Filtering of the sample.
- Diluting with hot water.
- Preparation of hot water
 - Internal hot water generator.
 - Warm water connection not necessary.
- Neutral rinsing of the filter.
- Cleaning of the digestion vessel.
- Physical presence of operator is not necessary between the various procedures.



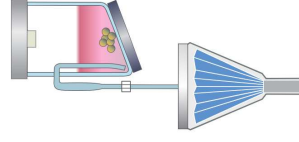
Principle



Phase 1

Insert filter and sample

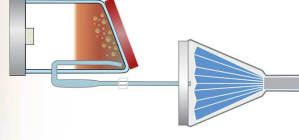
After putting the sample in the digestion tube, the filter is inserted into the funnel and the unit is closed. Funnel as well as the digestion tube are closed completely.



Phase 2

Addition hydrochloric acid

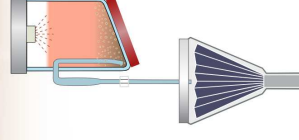
The process is initiated and a well defined amount of hydrochloric acid is added automatically. The entire process is run in a closed system.



Phase 3

Hydrolysis

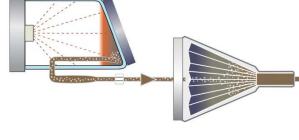
The sample is hydrolysed in boiling hydrochloric acid. The digestion of the matrix is done in an ideally dimensioned digestion vessel.



Phase 4

Dilution and rinsing

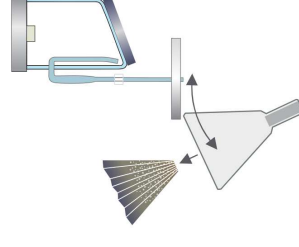
When is digestion is finished, the sample is heavily diluted with hot water. Prior to the filtration, the filter is moisturised with hot water as well.



Phase 5

Filtration

The diluted sample is quantitatively filtered through the humid filter. The digestion tube is rinsed with hot water till all fat particles are carried over and the filter is ph-neutral.



Phase 6

Taking out of filter

At the end the filter is taken out, dried and put into an extraction thimble for the fat extraction.