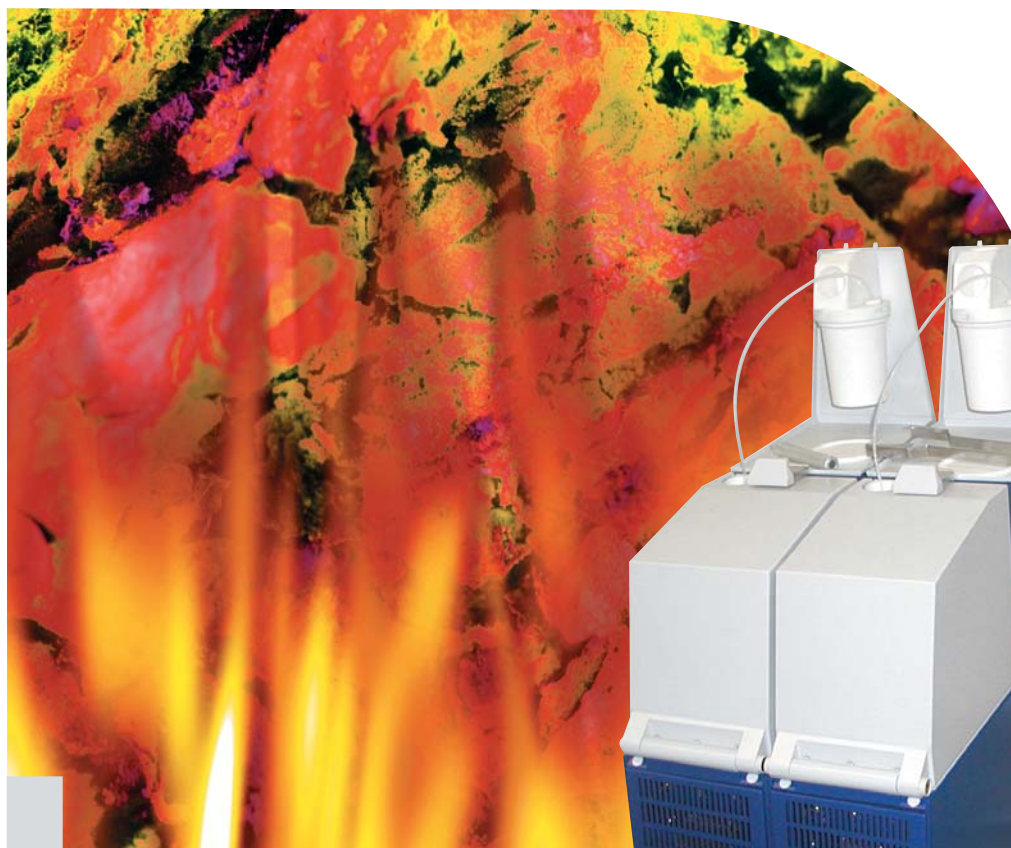


MICROWAVE LABSTATION MINOTAVR-2



- Digestion
- Evaporation/
concentration
- Hydrolysis
- Extraction
- Drying
- Synthesis

ADVANTAGES

- high speed and reactions efficiency
- absolute safety (sample vessel is placed in a solid metal waveguide, safety membrane, low pressure due to possibility of release surplus gaseous products)
- full automation (stop on residue after evaporation)
- low power consumption due to ultra focused electromagnetic field
- large sample digestion
- no sample contamination
- digestion and evaporation in the same vessel, no sample losses under transfer
- no volatile elements losses (Se, As, Hg, etc.)
- closed vessel (under pressure) or open vessel treatment





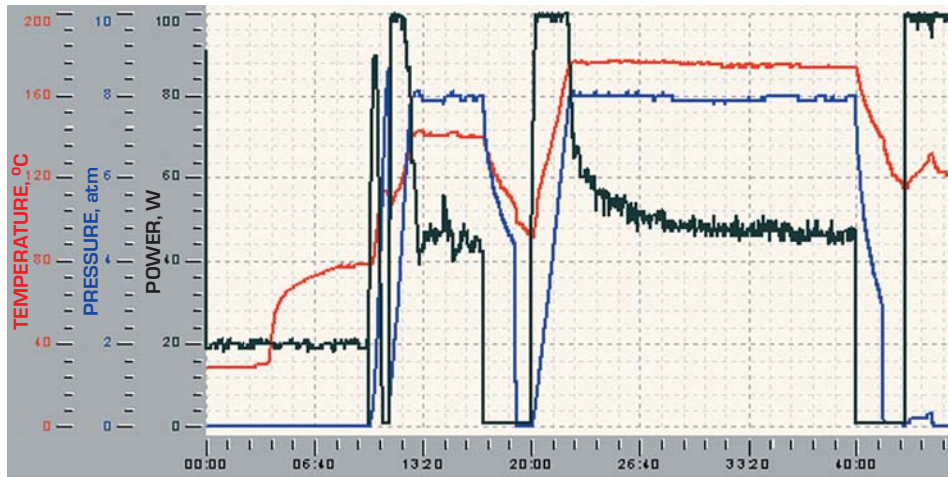
FEATURES

Modularity: Minotavr-2 can work as single unit or in a group consisting of 2, 3 or 4 units under centralized control.

Software controlled valve: removes gaseous reaction products and provides reaction under safety pressure.

Control and management: external PC or special console

Controlled parameters: pressure, temperature (option), power



APPLICATION EXAMPLES

Digestion

High pressure nitric acid digestion down to clear solution in 20 – 40 min

- wastewater
- juices, tea, coffee
- bread, corn, seeds
- fish, seafood
- fruit, vegetables
- sugar, sweets
- milk
- meat
- pharmaceutical products
- biological objects, plants
- blood, plasma

Hydrolysis

Simultaneous two or three samples hydrolysis in hermetically closed vials in presence of $HCl/H_2O_2 + HCl/OH^-$ in ~10 min

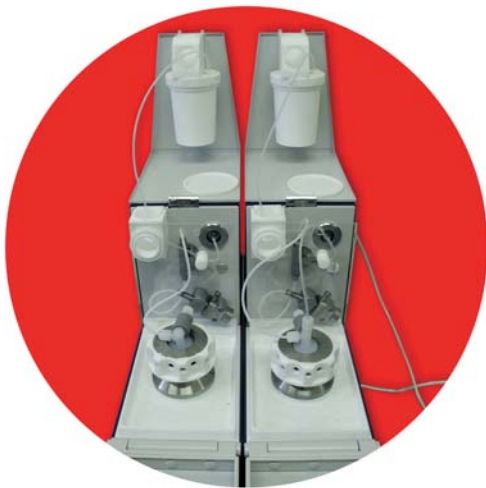
- mixed fodder
- fish flour
- fodder yeast

EQUIPMENT AND OPTIONS

Minotavr-2 units: 1, 2, 3 or 4 units under centralized control by an external PC or control panel

Accessories: vessels for digestion; scrubber; control panel

Options: temperature sensor; magnetic stirrer



TECHNICAL SPECIFICATIONS

Pressure	8 atm
Max. sample weight (digestion)	2 g
Max. volume of liquid sample	50 ml
Reagents	HNO_3, H_2O_2, HCl
Units in group	1 to 4
Sample digestion time	20 – 40 min
Sample hydrolysis time	10 min
Power supply	220 V, 50 Hz, 400 W
Size and weight	500x450x150 mm, 22 kg

The information and specifications in this publication are subject to change without notice.

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