

# FoodALYT MBS and SBS

## Micro and Standard Kjeldahl Block Digestion Systems



MBS 400



SBS 800



SBS 2000



SBS 5000L  
with a fully automatic lift



The Micro and Standard Kjeldahl Block Digestion Units FoodALYT MBS and SBS allow heating samples in the suitable digestion tubes. They are particularly used for **quantification of total protein by nitrogen determination acc. to Kjeldahl**. The block digestion systems are equipped with a corrosion-resistant block casing made of stainless steel. They are equippable with 8 or 20 standard Kjeldahl digestion tubes of either 250 or 400 ml. The Micro Kjeldahl systems FoodALYT MBS are designed for small quantities. They are available with 16 or 40 tubes of 100 ml.

### FoodALYT MBS 400L, SBS 5000L

The Block Digestion Systems of the L series are equipped with a fully automatic lift. This relieves the user of handling the heavy sample unit and hot chemicals. The software allows for a fully automatic digestion process. After an individually programmable cooling and suction time, the fume hood is raised into the final position.

The programming allows for individually adaptable temperature profiles and starting times.

- Extremely simple and fast programming per one-button operation.
- Menu designed in various languages.
- 10 freely configurable programmes for block temperature and digestion time.
- Applications storable.
- High power heater and extraction hood with exhaust gas collector.
- Digestion vessels 100, 250 and 400 ml.
- RS 232-interface.
- CE-conform and certified.

### Technical Data

|                            |  |
|----------------------------|--|
| Mains supply:              | 230 V / 50 Hz                          |
| Temperature-control range: | up to 450 °C, digitally adjustable     |
| Time-setting range:        | 0 to 999 minutes, digitally adjustable |
| Programmes:                | 10                                     |
| Steps per programme:       | 20                                     |
| Display:                   | LCD                                    |

### Items supplied:

All Block Digestion Units are delivered as complete systems, including digestion vessels, rack and extraction hood.

| Type               | No. of places | Vessels ml | Power W | Size (W x D x H)        | Weight kg | PU | Order No. |
|--------------------|---------------|------------|---------|-------------------------|-----------|----|-----------|
| FoodALYT MBS 160   | 16            | 100        | 1000    | approx. 43 x 46 x 77 cm | ca. 23    | 1  | 4700111   |
| FoodALYT MBS 400   | 40            | 100        | 2000    | approx. 48 x 52 x 77 cm | ca. 33    | 1  | 4700112   |
| FoodALYT SBS 800   | 8             | 250        | 1000    | approx. 43 x 46 x 77 cm | ca. 23    | 1  | 4700004   |
| FoodALYT SBS 2000  | 20            | 250        | 2000    | approx. 48 x 52 x 77 cm | ca. 33    | 1  | 4700005   |
| FoodALYT MBS 400L  | 40            | 100        | 2000    | approx. 48 x 62 x 77 cm | ca. 40    | 1  | 4700113   |
| FoodALYT SBS 5000L | 20            | 250        | 2000    | approx. 48 x 62 x 77 cm | ca. 40    | 1  | 4700007   |

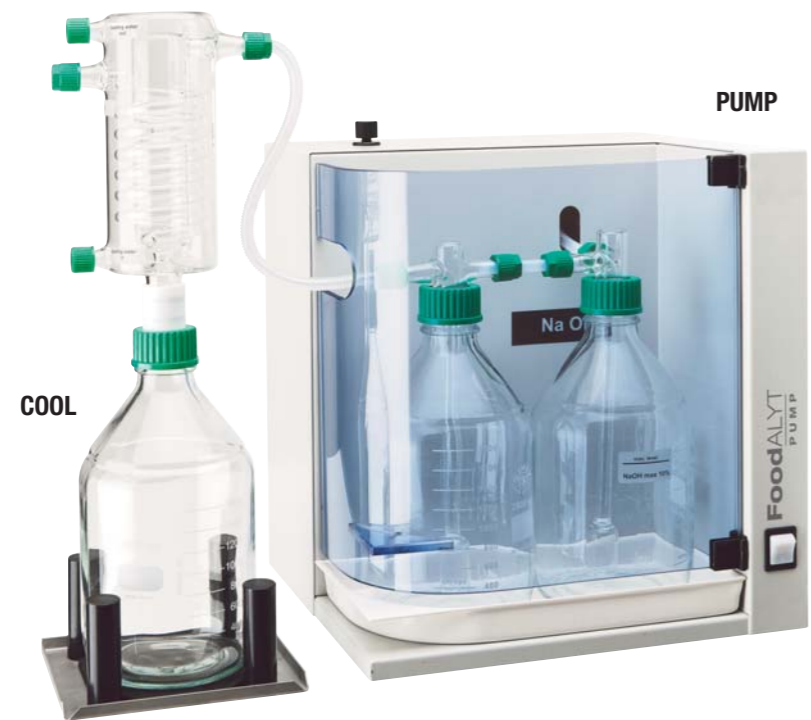
### Accessories for FoodALYT MBS / SBS

| Type     | Description  | PU | Order No. |
|----------|--|----|-----------|
| F-GF 100 | digestion tube, 100 ml   | 1  | 4700114   |
| F-GF 250 | digestion tube, 250 ml   | 1  | 4700019   |
| F-GF 400 | digestion tube, 400 ml   | 1  | 4700033   |
| KJELTABS | catalyst tablets, type CT, 5.0 g K <sub>2</sub> SO <sub>4</sub> , 0.15 g CuSO <sub>4</sub> and 0.15 g TiO <sub>2</sub> | 1  | 4010193   |
| KJELTABS | catalyst tablets, type CX, 5.0 g K <sub>2</sub> SO <sub>4</sub> and 0.5 g CuSO <sub>4</sub>                            | 1  | 4010192   |
| KJELTABS | catalyst tablets, type CQ, 1,5 g K <sub>2</sub> SO <sub>4</sub> and 0,15 g CuSO <sub>4</sub>                           | 1  | 4750320   |



# FoodALYT PUMP / COOL

Process Extraction System and Additional Cooling System



Compact Process Extraction System for **extracting and neutralising aggressive acid vapours** especially from quantification of nitrogen acc. to Kjeldahl. The acid vapours pass through a two-step neutraliser. FoodALYT PUMP is fitted with a vacuum pump (40 l / min). No water connection is required. The Additional Cooling System FoodALYT COOL, consisting of stand, bottle and cooler is available on request.

- Low operating costs.
- Efficient two-step neutralisation of acid vapours.
- CE-conform and certified.

## Technical Data

### FoodALYT PUMP

|                         |                                  |
|-------------------------|----------------------------------|
| Mains supply:           | 230 V / 50 Hz                    |
| Power consumption:      | 100 W                            |
| Weight:                 | approx. 20 kg                    |
| Dimensions (W x D x H): | approx. 38 x 36 x 44 cm          |
| Flow rate:              | max. 40 l / min w/o backpressure |

### FoodALYT COOL

|                         |                         |
|-------------------------|-------------------------|
| Dimensions (W x D x H): | approx. 17 x 20 x 53 cm |
|-------------------------|-------------------------|

## Items supplied:

The Process Extraction System FoodALYT PUMP is preassembled with bottles and hoses.

The Additional Cooling System FoodALYT COOL consists of stand, bottle and cooler.

# FoodALYT IR

Infrared Rapid Digestion Units



The Infrared Rapid Digestion Units FoodALYT IR allow heating samples in the appropriate digestion tubes. They are particularly used for **quantification of total protein by nitrogen determination acc. to Kjeldahl** and other high temperature digestions. Products of FoodALYT IR are fitted with a high performance infrared heater. Quality and positioning guarantee identical heating phases and digestion temperatures at all sample positions, both in single and double-row arrangements.

## Technical Data

|                    |   |
|--------------------|---|
| Mains supply:      | 230 V / 50 Hz   |
| Power:             | 1500 W  |
| Weight:            | approx. 22 kg   |
| Heat output range: | IR 600, IR 1200: 0 to 100 %, continuously adjustable<br>IR 600P, IR 1200P: 0 to 100 %, in 1 % steps |
| Time range:        | IR 600P, IR 1200P: 0 to 199 minutes, in 1 min steps   |
| Programmes:        | max. 10   |

- High-quality quartz radiators ensure particularly uniform heating at all sample positions.
- Direct heating of the samples through infrared radiator achieves short heating times.
- Extremely simple and fast programming per one-button operation.
- Menu designed in various languages.
- 10 freely configurable programmes for energy and digestion time (only programmable models).
- Rack with fume removal unit.
- LCD-display.
- Digestion vessels 250, 400 and 800 ml.
- RS 232-interface.
- CE-conform and certified.

## Items supplied:

Infrared Rapid Digestion Units are delivered as complete systems, including multi-level consoles, fume removal unit, sample rack and digestion vessels.

| Type              | No. of places | Vessels | Controller | Size (W x D x H)        | PU | Order No. |
|-------------------|---------------|---------|------------|-------------------------|----|-----------|
| FoodALYT IR 600   | 6             | 250 ml  | manual     | approx. 54 x 44 x 77 cm | 1  | 4700008   |
| FoodALYT IR 1200  | 12            | 250 ml  | manual     | approx. 54 x 44 x 77 cm | 1  | 4700009   |
| FoodALYT IR 600P  | 6             | 250 ml  | electronic | approx. 54 x 47 x 75 cm | 1  | 4700010   |
| FoodALYT IR 1200P | 12            | 250 ml  | electronic | approx. 54 x 47 x 75 cm | 1  | 4700011   |

## Accessories for FoodALYT IR

| Type       | Description  | PU | Order No. |
|------------|--|----|-----------|
| F-ESG 600  | insertable frame for 6 reaction vessels of 250 ml  | 1  | 4700029   |
| F-ESG 1200 | insertable frame for 12 reaction vessels of 250 ml   | 1  | 4700030   |
| F-AR 600   | fume removal unit for IR 600   | 1  | 4700031   |
| F-AR 1200  | fume removal unit for IR 1200  | 1  | 4700032   |
| F-GF 250   | digestion tube, 250 ml   | 1  | 4700019   |
| F-GF 800   | digestion tube, 800 ml   | 1  | 4700020   |
| KJELTABS   | catalyst tablets, type CT, 5.0 g K <sub>2</sub> SO <sub>4</sub> , 0.15 g CuSO <sub>4</sub> and 0.15 g TiO <sub>2</sub> | 1  | 4010193   |
| KJELTABS   | catalyst tablets, type CX, 5.0 g K <sub>2</sub> SO <sub>4</sub> and 0.5 g CuSO <sub>4</sub>                            | 1  | 4010192   |

| Type          | PU | Order No. |
|---------------|----|-----------|
| FoodALYT PUMP | 1  | 4700012   |
| FoodALYT COOL | 1  | 4700013   |