

# Fibertec™ E Dietary Fibre Analysis System



*Semi-automated incubation and separation system for quantitative determination of dietary fibre in processed food, cereal products, fruits and vegetables, health food, feedstuffs, plant materials, etc.*

## Benefits

- Free choice of methods like AOAC, AACC, NMKL and Asp.
- Determines total, soluble and insoluble dietary fibre.
- Rapid filtration of six samples simultaneously.
- Specially designed incubation flasks
- High incubation and separation capacity.
- Repeatable readings, S.D. < 0.5% absolute.
- Easy and convenient to use.
- Saves time, space and manual work.

## Description

The Fibertec™ E is designed for rapid and rational determination of dietary fibre according to established enzymatic methods, including those approved by AOAC, AACC, NMKL and Asp.

The Fibertec E determines total dietary fibre as well as the insoluble and soluble fibres separately. It is also useful in sample preparation for detailed studies of fibre fractions, e.g. by chromatographic or colorimetric techniques.

The basic Fibertec E includes a Shaking Water Bath and a Filtration Module. The Shaking Water Bath incubates 12 samples in each batch. The temperature range is from ambient to 80°C and it is possible to preset three temperatures. The shaking frequency and amplitude are continuously adjustable.

The Filtration Module filters and collects 6 sample solutions batchwise and includes a system for rapid dehydration. The filtration step is speeded up through built-in “Pressure Mode”. Reversed pressure is applied to facilitate filtration by breaking up clogged filter residues during filtration. Filtration time varies according to sample type, but on average it is 2-4 minutes for 100 ml of digested solution.

The reproducibility (standard deviation) of the Fibertec E in determining total, insoluble and soluble dietary fibre is < 0.5% absolute.

**System description:****Fibertec™ E**

- 1023 0001 Filtration Module complete, comprising:  
Filtration Module, Incubation Flasks (4 sets of 6), Standard Crucibles (P2, 2 sets of 6), Basket for Incubation Flasks, 2 Stands for Crucibles, 2 Spray bottles, 2 Water aspiration pumps, Filter aid, Tubing, Shaking Water Bath, complete, comprising: a tray for 12 Incubation Flasks and a hinged inclined lid.
- 1023 0002 Filtration Module complete 115V as above

**In addition, we recommend:**

- 1000 2081 Incubation Flask (set of 6), at least 4 sets  
1000 1172 Crucible, P2 (40 - 100 µm) set of 6, at least 2 sets  
1000 0427 Basket for 12 Incubation Flasks, at least 1  
1000 3316 Total Dietary Fibre Kit for 200 determinations  
100 ml Boiling Water Bath Pipette 100 µl Muffle or incineratron furnace ~525°C

**Accessories:****Alternative filter crucibles:**

- 1000 1174 Crucible, P0 (160 - 250 µm), set of 6  
1000 1171 Crucible, P1 (90 - 150 µm), set of 6  
1000 1173 Crucible, P3 (16 - 40 µm), set of 6  
1000 1079 Stand for 6 Crucibles  
1093 Cyclotec™ Sample Mill  
1090 Cemotec™ Sample Mill  
1095 Knifetec™ Sample Mill for high fat, high fibre samples  
*For protein determination we recommend our Kjelttec analyzers.*

**Alternative flask trays for other applications, e.g. biochemical work:**

- 1000 2203 Tray for E\*\*-flasks, 50 ml  
1000 2204 Tray for E\*\*-flasks, 100 ml  
1000 2205 Tray for E\*\*-flasks, 250 ml  
1000 2206 Tray for E\*\*-flasks, 500 ml  
\*\* Erlenmeyer

**Performance data:****Filtration Module:**

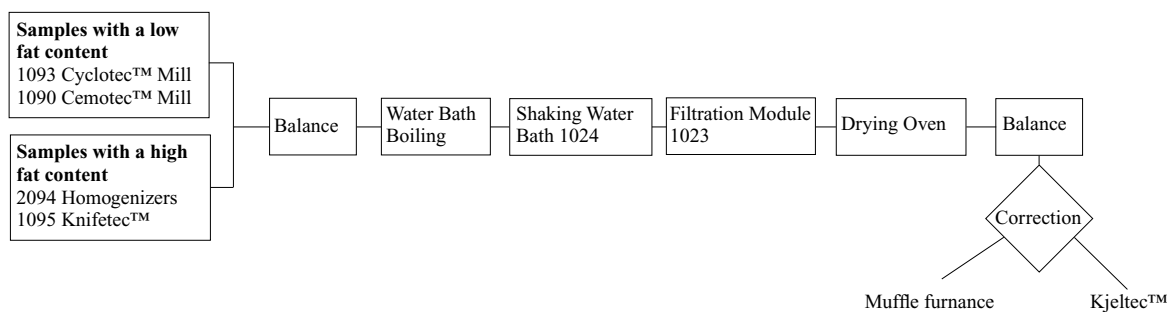
Filtration and de-hydration capacity: 6 samples/batch  
Filtration rate: 2-4 ml/100 ml of digested solution, depending on sample type  
Repeatability: S.D. < 0.5% absolute  
Flask volume: 600 ml

**Shaking Water Bath:**

Capacity: 12 flasks/batch  
Temperature range: ambient to 80°C  
Temperature accuracy: ± 0.1°C  
Shaking frequency: 0-150 strokes/minute  
Stroke length: 0-50 mm

**Installation requirements:**

Equipment	Power supply	Power consumption	Dimensions w × d × h	Weight, kg
1023 Filtration Module	100-120 V, 50-60 Hz 210-230 V, 50-60 Hz	8	770 × 280 × 500	24
1024 Shaking Water Bath	100-120 V, 50-60 Hz 210-230 V, 50-60 Hz	1500	890 × 370 × 320	24

**A comple analytical scheme for dietary fibre determination consists of:**

\* Ordering information: See separate price-list

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