

Fibertec™ M6 Fibre Analysis System



Extraction System for simple determination of Crude Fibre, Detergent Fibre, Cellulose, Hemicelluloses, Lignin and related Parameters in plant materials, compound feed, food, etc.

Benefits

- Six samples processed simultaneously.
- Accessories for batch handling.
- Integral extraction and filtration.
- No sample transfer and no loss of sample.
- Separate unit for solvent dehydration, lignin determination and defatting.
- Extensive application service.
- High reproducibility of conditions and results.
- Saves time, energy and laboratory space.
- Official approval: ISO 6865, 92/89 EEC and AOAC 2002.04 (feed).

Description

The Fibertec™ System M6 is dedicated for fibre determinations according to Weende, van Soest, etc. Single or sequential extractions including boiling, using externally preheated reagents, rinsing and filtration are performed under reproducible and controlled conditions.

The basic modules of a Fibertec M6 are:

- 1020 Hot Extraction Unit, for hot hydrolysis and extraction with built-in systems for heating and filtration
- 1021 Cold Extraction Unit, for defatting samples, extraction at ambient temperature e.g. lignin determination, and for solvent dehydration of fibre residues.

Both units are adapted to the same crucible system that permits the sample, whenever required, to be dried and weighed between extractions. In the system the samples are handled in specially designed filter crucibles, which are used both as an integral part of an extraction assembly during extraction, rinsing and filtering, and as a sample vessel during the weighing, drying and ashing steps.

The Fibertec M6 permits handling of six samples at a time by the use of accessory tools for batch handling. Filtration problems are overcome by the unique vacuum/reverse air flow system.

The Fibertec M6 offers a most time saving and convenient solution for more reproducible fibre determinations.

System description:**Fibertec™ M6 (200-230V):**

- Hot Extraction Unit comprising: Hot Extractor, Reflector, Reagent Bottles, Hot Water Sprayer, Beaker, Funnel, Water Suction Pump, Antifoaming Agent, Tubing, Holder for 6 crucibles, Stand for 6 crucibles, Crucibles (P2 standard, 2 sets of 6), Manual.
- Cold Extraction Unit comprising: Cold Extractor, Spray Bottle, Tubing, T-tube, Spare Part Kit, Stand for 6 crucibles, Crucibles (P2 standard 40 - 100 µm, set of 6), Antifoaming Agent (octanol), Celite, 1 l

Also choose from the following accessories:

1093 Cyclotec™ Sample Mill, cyclone mill
 1090 Cemotec™ Sample Mill, moisture mill
 2094 Homogenizer, blender type
 2096 Homogenizer, blender type
 1095 Knifetec™, water cooled sample mill
 Hot plate 2022

Filter Crucibles:

Crucible, P1 (100 - 160 µm), set of 6
 Crucible, P2 (40 - 100 µm), set of 6, standard
 Crucible, P3 (16 - 40 µm), set of 6
 Crucible, P0 (160 - 250 µm), set of 6
 Crucible P2 US, (40 - 60 µm) set of 6

Performance data:

Sample size:	0.5 - 3 g (1 g normal)	Capacity per batch:	6 samples simultaneously
Measuring range:	0.1 - 100%	Capacity per day:	Up to 36 analyses (Crude Fibre method acc. to Weende) per day
Repeatability:	< 1% relative at 5 - 30 % fibre level		
Accuracy:	According to official methods		

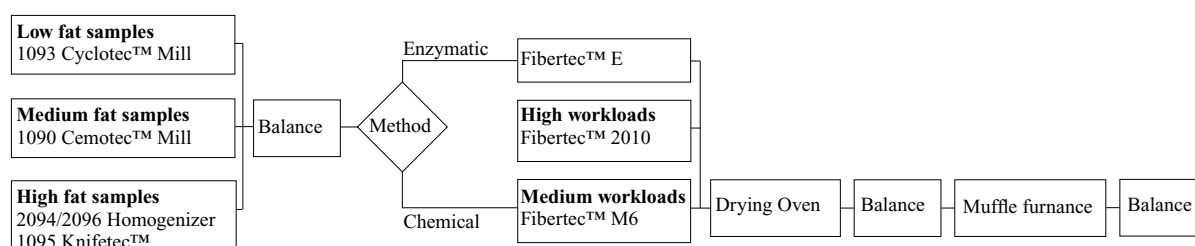
Installation requirements:

Equipment	Power supply	Power consumption	Dimensions w × d × h	Weight	Water supply
1020 Hot Extraction Unit	200 - 230V ± 10% 50 - 60 Hz	1 000 kW	56 × 38 × 57	28 kg	Tap water for condensors (appr. 2 l/min) and water aspirator (during filtration)
1021 Cold Extraction Unit	-	-	56 × 38 × 28	4 kg	Tap water for water aspirator (during filtration)

Applications:

- Crude Fibre (acc. to Weende).
- Acid Detergent Fibre.
- Neutral Detergent Fibre.
- Acid Detergent Lignin.

In addition, most other chemical extraction methods except methods including acetic acid, trichloroacetic acid and/or nitric acid, may be employed. For specific method information, please ask for detailed FOSS Analytical Application Notes.

Fibertec™ Systems for any fibre determination needs:

* Ordering information: See separate price-list

FOSS

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