

Экстрактор волокон F-6P

Технические характеристики

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F-6P

FIBRE EXTRACTOR

Efficient, versatile and cost-effective fibre extraction system for performing analysis of crude and detergent fibre.

APPLICATIONS



Crude fibre extraction according to the Weende method



Extraction of detergent fibre fractions according to the Van Soest method



BENEFITS



Designed to sustain many years of laboratory work, fabricated with excellent construction materials, featuring a stainless steel external building.



Faster extraction thanks to the air compressor, which breaks up compact clumps, and the peristaltic pump, which generates vacuum.



Compatible with the Weende and Van Soest methods and a wide range of samples.



Scalable with our cold fat extractor to degrease samples or perform cold extractions using organic solvents.

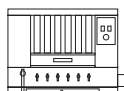


Extraction and filtration without sample transfer.



Design with six simultaneous extraction positions.

SPECIFICATIONS



Reference	F-6P
External dimensions L x D x H mm	724 x 330 x 580
Power W	1280
Voltage* V	230
Weight Kg	41
Frequency Hz	50/60
Maximum number of samples per test	6
Dimensions of glass crucible Ø x H mm	34 x 60

*Other voltages and electrical configurations available on request.

DESCRIPTION

- External housing made of AISI-304 stainless steel painted with epoxy resin.
- Heating by means of a switch-activated quartz heater and temperature-control dial.
- Built-in water cooling circuit to perform hot extractions.
- Built-in air pump activated by an independent switch for positive pressure to break up compact clumps during filtration.
- Built-in peristaltic pump activated by an independent switch to generate negative pressure to drain the solvent faster or collect a fibre fraction.
- Simultaneous or sequential hot or cold extraction of six samples under identical conditions, including boiling, rinsing and filtration.
- Control of extraction steps by means of 3-position valves (closed, drain and positive pressure).
- Pyrex® crucibles with a nominal porosity of 40-90µm.
- Manufactured to ensure compliance with AOAC, AACC and ISO international standards.
- Viton® seals and connecting hoses compatible with different reagents, including acidic and basic solutions.
- Ideal for use in conjunction with the EF-6P cold fat extraction system. Equipped with a specific connection so the devices can be used together.
- Supplied with all necessary components, including crucibles, racks, clamps and connecting hoses.

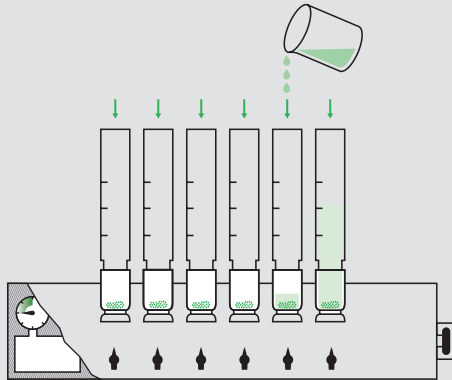
USE OF THE F-6P IN COMBINATION WITH THE EF-6P

Combined installation of both extractors (F-6P and EF-6P) enables users to pre-degrease samples with a high fat content before performing fibre extraction. This configuration also helps speed up cold fat extraction thanks to the pressure support connection between the two units.

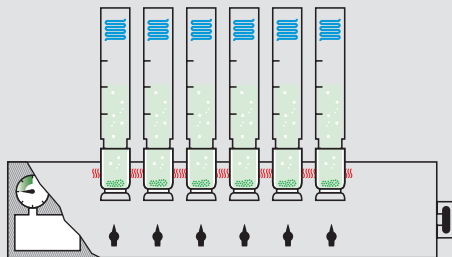


EXTRACTION STEPS FOR THE F-6P AND EF-6P

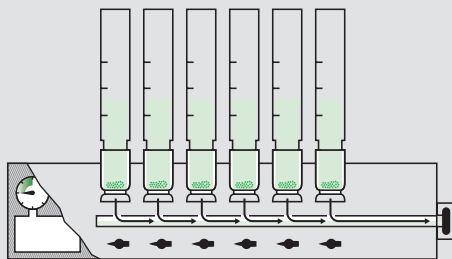
F-6P



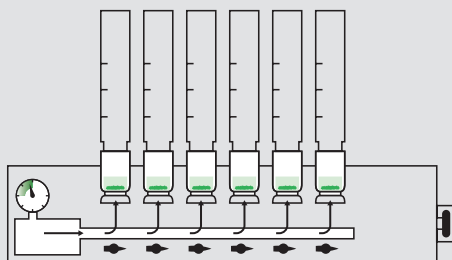
1. Addition of aqueous solvent.



2. Sample mixing with the solvent at boiling temperature and active cooling circuit.

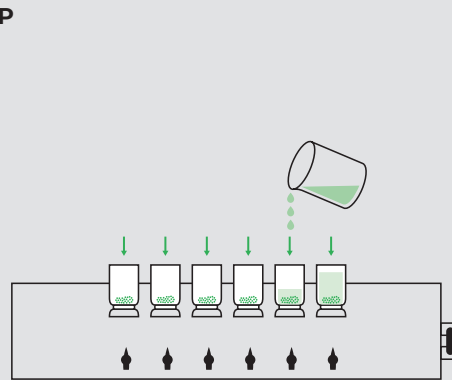


3. Vacuum-assisted filtration using the built-in peristaltic pump for residue and solvent recovery.

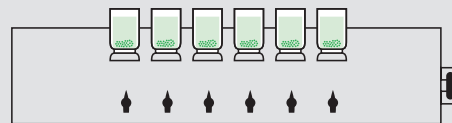


During filtration, it may be necessary to break up compact clumps using the built-in air pump.

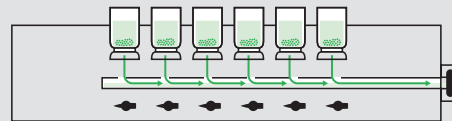
EF-6P



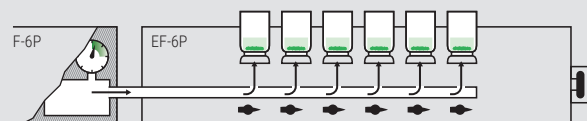
1. Addition of organic solvent.



2. Sample mixing with the solvent at room temperature.



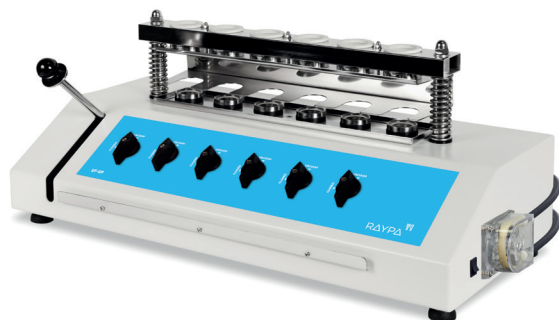
3. Vacuum-assisted filtration using the built-in peristaltic pump for solvent recovery.



During filtration, it may be necessary to break up compact clumps using the air pump connection on the F-6P fibre extractor.

ACCESSORIES

COLD FAT EXTRACTOR



Features

- Extraction system with six extraction positions and six independent extraction valves.
- External housing made of AISI-304 stainless steel painted with epoxy resin.
- Connection with built-in peristaltic pump with separate activation switch to apply negative pressure to speed up extraction.
- Built-in connection with the F-6P extractor to apply positive pressure to the bottom of the samples and break up compact clumps formed during filtration and thus speed up extraction.
- Optional solvent recovery.
- EPDM seals and GSR connecting hoses compatible only with acetone and other non-polar organic solvents.
- Supplied with all necessary components, including crucibles, clamp and hoses.

Specifications

Reference	EF-6P	
Applications	Cold fat extraction with acetone and other non-polar organic solvents Sample degreasing prior to fibre extraction. Recommended for samples with a fat content greater than 1%.	
Performance data	Analysis time min	40
	Dimensions of glass crucible Ø x H mm	34 x 60
	Maximum number of samples per test	6
Installation requirements	Dimensions L x D x H mm	375 x 310 x 540
	Weight Kg	13
	Power W	100
	Voltage* V	230
	Frequency Hz	50/60

*Other voltages and electrical configurations available on request.

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