

# Soxtec™ 8000

First fully automated Soxhlet system



ANALYTICS BEYOND MEASURE

The Soxtec™ 8000 is a versatile solution for automated fat extraction, including a wide range of accessories ensuring safe and effective sample handling.

### Load, start and walk away

Simply load samples and add solvent in a closed, secure system. Solvent is recovered automatically and limits solvent vapours to a minimum which ensures a safer working environment.

### Improving throughput at a lower cost

With a six position extraction system, expandable to 12, you can run up to 84 samples a day. Simplified operation reduces risk of errors and associated costs.

### Reducing risk in fat analysis

Ensure safe operations with innovative features such as intelligent water cooling, pivoting hotplates and a smart solvent dispensing dial for enclosed solvent dosage.

For total fat analysis, Soxtec 8000 can be used together with a Hydrotec 8000 hydrolysis unit and a FOSS HydroCap single filter that works across both units.

### Sample type

Raw materials, intermediates and finished products in food, animal feed and petfood

### Parameters

Crude and free fat. Total fat (with Hydrotec™ 8000)

### Technology

Fully automated soxhlet extraction including boiling, rinsing and recovery.

### Approvals

AOAC 2003.05 & 2003.06 crude fat in feed, cereal grain and forage  
AOAC 991.36 fat (crude) in meat and meat products  
ISO 1444:1996 meat and meat products  
ISO 11085:2008 cereals, cereals-based products and animal feeding stuffs  
ISO 6492:1999 animal feeding stuff

# Specifications

Performance data	
Sample size	0.5-15 g depending on sample type (for crude fat) 0.5-2 g (for total fat)
Measurement range	0.1-100%
Accuracy	According to officially approved methods
Reproducibility	+/-1% rel. or better (5-100% fat)
Extraction time	Typically 45-60 min.
Solvent volume	40-110 ml
Solvent recovery	Typically 80%
Capacity per batch	6/12 positions
Capacity per day	42/84 samples
Programs	1-9
Temperature range	0-285 °C
Heating up time	From 20-285 °C in 5 min (230 V)
Installation requirements	
Power Supply	115 V 50/60 Hz or 230 V 50/60 Hz depending on ordered version
Water supply	One water tap - for cooling water
Cooling water	2 litre/min, <25 °C (minimum flow)
Drain	One drain/sink for cooling water
Ventilation	Fume hood. Mains power interlocked to the airflow which must be at least 0.5 m/sec
Dimensions (w x d x h) cm	Extraction Unit: 64 x 35 x 63 Control Unit: 28 x 20 x 19
Weight	Extraction Unit: 35 kg Control Unit: 4 kg
Power consumption	1500 W (115 V version) 1800 W (230 V version)
Transient overvoltage	Category II

## Accessories

- **Extraction cups:** Aluminium cups, Glass cups 3 sizes
- **Thimbles:** 33 mm double thickness, 33 mm single thickness, 26 mm Double thickness
- **Condenser seals – depending of solvent used:** Viton, Butyl, Resel, Polyurethane, Teflon
- Heating jackets for glass cups, 3 different sizes (Large cup, standard cup and small cup)
- Plier for heating jacket
- Recovery flask

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