

ST 243 Soxtec™

Labtec™ Line manual solvent extraction system



ST 243 Soxtec™ manual solvent extraction system for safe, convenient and economical determination of soluble, or extractable matter. Typically five times faster than classical Soxhlet equipment, ST 243 Soxtec provides rapid analysis with absolutely no loss in precision or accuracy.

Save cost with minimal use of solvent

Minimal use of solvents and automatic solvent recovery saves analysis costs. Designed to work with all common solvents used for solvent extraction.

Ensure a safe working environment

Safety has always been important to us, the only electrical part in the Extraction unit, the hot plate, is spark proof. The dual temperature sensors ensure that the set temperature is kept and that the ignition point is never reached for any solvent.

Operating convenience

ST 243 Soxtec has a capacity of 6 positions while batch handling makes sample processing as easy and safe as possible. The batch handling tools save time, simplify usage and minimise risk of operator error.

Sample type

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

Parameters

Crude and free fat.

Technology

Manual 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	
Thimble size	26 × 60 mm Approx. 25ml
Solvent volume	40 ml.
Extraction time	Typically 40 to 60 min, depending on application
Capacity/batch	6 samples
Capacity/day	30-36 samples
Measuring range	0.1-100% fat
Accuracy	According to official approvals
Repeatability	± 1% rel. or better at 5-100% fat
Heating up time	from 20°C to 285°C in 7-9 min (230 V)

Installation requirements						
Equipment	Power supply	Power consumption	Dimensions w × d × h cm	Weight	Water supply	Ventilation
Extraction Unit	-	-	57 × 35 × 58	30 kg	2 l/min	Fume hood min. airflow 0,5 m/s (inter locked)
Control Unit	230 V, 50-60 Hz	1250 W	28 × 23 × 19	3 kg	-	-

Accessories

- Cellulose thimbles, 26mm (set of 25)
- Thimble handler
- Thimble support
- Thimble support holder
- Cup holder
- Thimble stand, Metal
- Extraction cups (set of 6), Aluminium
- Extraction cups (set of 6), Glass
- Seals for condensers, Viton (set of 6)
- Seals for condensers, Butyl (set of 6)
- Seals for condensers, Teflon (set of 6)
- Seals for condensers, Polyurethane (set of 6)

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