

ST 255 Soxtec™

Labtec™ Line semi-automated solvent extraction system



ST 255 Soxtec™ semi-automated solvent extraction system for safe, convenient and economical determination of soluble, or extractable matter. Typically five times faster than classical Soxhlet equipment, ST 255 Soxtec™ provides rapid analysis with absolutely no loss in precision or accuracy.

Easy and safe solvent handling

Minimal manual handling assures safety in the analysis process and reduces the risk of operator error. When the sample has been loaded, the solvent is added in a closed, secure system. The automatic solvent recovery and built-in fume hood limit solvent vapour to a minimum.

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 255 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. Total fat (with Hydrotec)

Technology

Semi-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	
Thimble size	65 ml. (33 x 80mm cellulose thimbles)
Solvent volume	70-90 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)
Solvent recovery	typically 80 %

Installation requirements						
Equipment	Power supply	Power consumption	Dimensions w x d x h cm	Weight	Water supply	Ventilation
Extraction Unit	-	-	60 x 38 x 58	30 kg	2 l/min	Fume hood min. air-flow 0,5 m/s (inter locked)
Control Unit	230 V, 50-60 Hz	1 550 W	31 x 24 x 16	3 kg	-	-

Accessories

- Cellulose thimble, 33mm (set of 25) double thickness
- Cellulose thimble, 33mm (set of 25) single thickness
- 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, RESEL (set of 6)
- Seals for condensers, Polyurethane (set of 6)
- Solvent dispenser

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