

SER 158 Series

Automatic Hot Solvent Extractor



Analytical Instruments
Raised to Excellence



Be Assured. Choose SER 158 Series.

- ▶ SER 158/3 & SER 158/6 - Two models with 3 or 6 positions to match sample load
- ▶ Fully Automated - "Load & Go" operation and final auto-lift to **prevent sample burning**
- ▶ No Exposure to Solvent - Smart disposing system for easy & **secure solvent addition**
- ▶ Extended Productivity - Scalable from single position to 4 units (24-pos.)
- ▶ Unmatched Performance - **Ultimate level of technology**
- ▶ Limited Solvent Consumption - High **recovery rate (> 90%)**
- ▶ Tailored Solution - Choose among micro, standard or jumbo extraction thimbles & cups
- ▶ Full Traceability - **Automatic result calculation** & storage on the on-board archive
- ▶ Extreme Flexibility With **Vaflo**n Seals (optional) - Universally applicable with any solvent
- ▶ TEMS™ Saving Technology

Operating Process - Hot Solvent Extraction (Randall Technique)

During the first step, the sample is literally immersed into the boiling solvent. At the end of this stage, the level of the solvent is automatically lowered to below the extraction thimble, with the solvent flowing through the thimble for the washing. This step is followed by automatic solvent recovery, recovering more than 90% of the solvent used. Heaters are automatically switched-off and glass cups containing the extracted sample are lifted to prevent sample burning. During the cooling step, the continuous tap water flow ensures sample cooling and complete safety. The calculation of the total fat content follows gravimetrically, after drying the extract.

Main Industries & Applications

Food & Feed » Crude and Total Fat determination

Environmental, Textile, Pulp & Paper (plus other non-Food&Feed) » Oil / Fat content

Environmental » Sample Prep for the extraction of pollutants and contamination elements

TEMS™ Saving Technology

Time Saving » intuitive and quick setting; rapid solvent addition

Energy Saving » independent on/off heaters & limited water consumption, 1.0 L/min

Money Saving » substantial cost reduction; up to 90% recovery means lower OPEX

Space Saving » extremely compact footprint saves bench space



SER 158/3 Solvent AutoExtractor



SER 158/6 Solvent AutoExtractor

TECHNICAL SPECIFICATIONS

Positions:	SER 158/3: 3-position	SER 158/6: 6-position
Max. Capacity:	SER 158/3: 21 samples/day/unit	SER 158/6: 42 samples/day/unit
Scalability:	SER 158/3: 12-pos. (up to 4 units)	SER 158/6: 24-pos. (up to 4 units)
Display:	7" color touch screen - extractable control pad	
Solvents Accepted:	Capable of being used with all solvents	
Solvent Recovery:	> 90%	
Automation:	Immersion, Removing, Washing, Recovery, Cooling	
Lighting:	LED lights show active positions	
Heating Element:	Glass ceramic - independent switch on/off	
Max. Heating Level:	Related to solvent	
Sample Size:	0.5 to 15 g (generally 2-3 g) - in 33x80 mm thimbles	
Seals:	Viton and Butyl as standard, or Vafalon (universally applicable) as optional	
Condensers:	Titanium (VELP Patent)	
Interfaces:	3 x USB (balance, mouse, USB stick), Ethernet (Pc)	
Result Calculation:	Automatic, shown on the display and saved into the on-board archive	
Dimensions (WxHxD):	SER 158/3: 358x555x570 mm	SER 158/6: 546x555x570 mm
Power:	1500 W	

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