

SER 158

Automatic 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 SafeEnd™ prevent soluble matter overheating
- ▶ No Exposure to Solvent - SolventXpress™ disposing system for easy & secure solvent addition
- ▶ Extended Productivity - Scalable from single position up to 4 units (24-pos.)
- ▶ Unmatched Performance - State-of-the-art technology
- ▶ Minimized Solvent Consumption - High recovery rate (> 90%)
- ▶ Tailored Solution - Choose among micro, standard or jumbo extraction thimbles & cups
- ▶ Smart Data Management- Full traceability, Automatic result calculation & storage
- ▶ Extreme Flexibility with Vaflon Seals - Applicable with the majority of solvents
- ▶ LED Guidance – 3/6 lights showing active positions
- ▶ TEMS™ Saving Technology



Five-Step Operating Process for Hot Solvent Extraction (Randall Technique)

The first step of the process is the Immersion of the sample in boiling solvent. The Removing step automatically lowers the level of the solvent to below the extraction thimble. The condensed solvent flows through the thimble during Washing to complete the extraction process. Then follows the Recovery step where more than 90% of the solvent used is automatically collected in the internal recovery tank. The heaters are automatically switched-off and the glass cups containing the extracted sample are raised to prevent burning. The Cooling step finalizes the process where continuous tap water flow ensures extracted matter cooling in complete safety. Fat is ready to be gravimetrically calculated from the dried extract.

APPLICATIONS	MAIN INDUSTRIES
Fat Determination (Crude and Total)	Food and Feed
Oil /Fat content determination	Environmental, textile, pulp & paper
Sample Preparation for the extraction of pollutants and contaminated elements	Plastic & petroleum, environmental



- Time Saving: Fast solvent addition, easy analysis set up, one-click start function.
- Energy Saving: Heaters are independent; limited water consumption.
- Money Saving: More than 90% solvent recovery and reduced extraction time.
- Space Saving: Extremely compact footprint saves bench space.

TECHNICAL SPECIFICATIONS	SER 158/3	SER 158/6
Positions:	3-positions	6-positions
Max. Capacity:	21 samples/day/unit	42 samples/day/unit
Scalability:	12-pos. (up to 4 units)	24-pos. (up to 4 units)
Display:	7" color touch screen - extractable ControlPad	
Solvents Accepted:	Capable of being used with the majority of solvents	
Solvent Recovery:	> 90%	
Automation:	Immersion, Removing, Washing, Recovery, Cooling	
Lighting:	LED show 3/6 active positions	
Heating Element:	Glass ceramic – 3/6 positions independent switch on/off	
Sample Size:	0.5 to 15 g in 33x80 mm thimbles (generally 2-3 g)	
Seals:	Viton, Butyl, and Vaflon	
Condensers:	Titanium (VELP Patent Pending)	
Interfaces:	3 x USB (balance, mouse, USB stick), Ethernet (Pc)	
Result Calculation:	Automatic, Archived on ControlPad	
Water Consumption:	From 1.0 l/min	
Dimensions (WxHxD):	358x546x450 mm - 14x21,5x17,7 inch	546x546x450 mm - 21,5x21,5x17,7 inch
Dimensions with Control Pad	358x546x570 mm - 14x21,5x22,4 inch	546x546x570 mm - 21,5x21,5x22,4 inch
Weight (SER 158/Control Pad):	Kg 29 / 1 - 64 / 2,2 lb	Kg 36 / 1 - 80,3 / 2,2 lb
Power Supply:	115/230 – 50/60 V-Hz	
Power Consumption:	630/850 W	

Authorized Distributor:

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