SER 158

Automatic Solvent Extractor





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 Lights 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 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				
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 lights 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)		mbles (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		115/230 – 50/60 V-Hz	
Power Consumption:	630/850 W		630/850 W	

Authorized Distributor:

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