

| Estrattore Soxhlet SER 148

BACTION

SER 148 SOLVENT EXTRACTOR

FAT EXTRACTION USING SOLVENTS

Solvent extraction is used to determine the quantity of various components contained in agricultural, industrial or environmental samples. Soxhlet extraction is one of the most widely used analytical techniques. Adaptations of the technique have been introduced over time in order to reduce lengthy extraction times, for example by increasing the temperature of the solvent used. The modifications introduced by the American chemist Edward L. Randall are some of the most effective for this purpose. VELP Scientifica solvent extractors operate according to the Randall technique.

The SER 148/3 and SER 148/6 can be used to separate a substance or a group of elements (e.g. fat) from solid and semi-solid samples according to the Randall technique (consisting of immersion, washing and solvent recovery). This technique has three great benefits over the traditional Soxhlet technique:

- up to 5 times faster than Soxhlet (hot solvent vs. cold solvent)
- low solvent consumption (solvent recovery)
- limited cost per analysis

In addition, the SER 148 offers full operator safety in compliance with IP55. The main field of application is the determination of the content of soluble products such as fats, detergents, plasticizers and pesticides in food, animal feeds, detergents, rubber and plastic formulas, pharmaceutical products, soil, etc.

SER 148/3

GLP Good Laboratory Practice					
	• TAPP				
ASTM	• APHA	• A\	NWA	•	WEF

SER 148/6

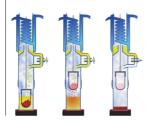


The solubilization of extractable components is performed by a cold solvent dropping from a reflux condenser. Consequently a complete extraction lasts many hours.



RANDALL TECHNIQUE The first phase of

extraction is performed by immersing a sample containing thimble in boiling solvent followed by a washing with cold refluxing solvent. The fast solubilization achived by the hot solvent results in a sharp reduction of extraction time.



CODE No

Extraction thimbles 33x80 mm, 25 pcs/box



CONSUMABLES

CM0111148

SUPPLIED WITH	CODE No
SER 148/3 Extraction cup, 3 pcs/box	A00001141
SER 148/3 Heat shield	40000210
SER 148/6 Extraction cup, 6 pcs/box	A00000142
SER 148/6 Heat shield	40000220
Extraction thimbles 33x80 mm, 25 pcs/box	CM0111148
Extraction thimbles holder	A00001142
Inlet tube	10000280
Viton seal	1000008
Butyl seal	1000009
OPTIONAL ACCESSORIES	CODE No
Printer	A00001009
Serial cable	A0000011
Thimbles weighing cup	A00001146
Thimbles stand	A00001149 *
Handling device for extraction cups	A00001145 *
Pincer for weighing cups	A00001147 *
Extraction cup, 6 pcs/box	A00000142
Vaflon seal	A0000061
IQ/OQ/PQ Manual for SER 148	A0000073

* only for SER 148/6

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