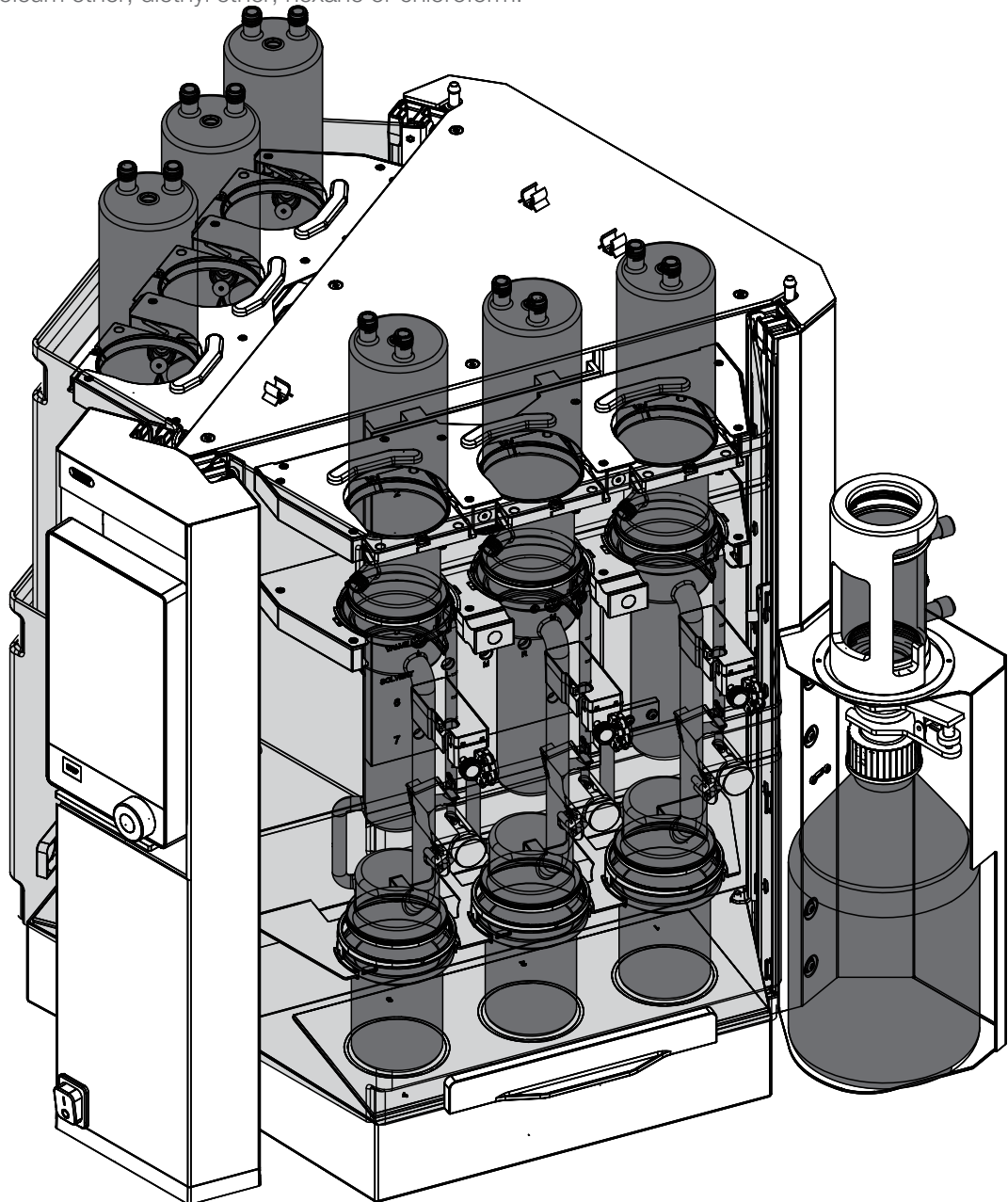


FatExtractor E-500

Technical data sheet

The declaration of the total fat or crude fat is required for most foods and feeds. The FatExtractor E-500 is designed for solid-liquid extraction for quick and compliant fat determination. The design of the glass assemblies and the high-speed heaters combined with sophisticated process control allow for the fastest and most reproducible extraction processes with full compliance.

By simply changing the glass assembly, the FatExtractor E-500 complies with standard methods such as Soxhlet, Hot Extraction (HE) or Twisselmann (ECE). The glass assembly is interchangeable for a later conversion to another extraction method. Suitable for extractions with petroleum ether, diethyl ether, hexane or chloroform.

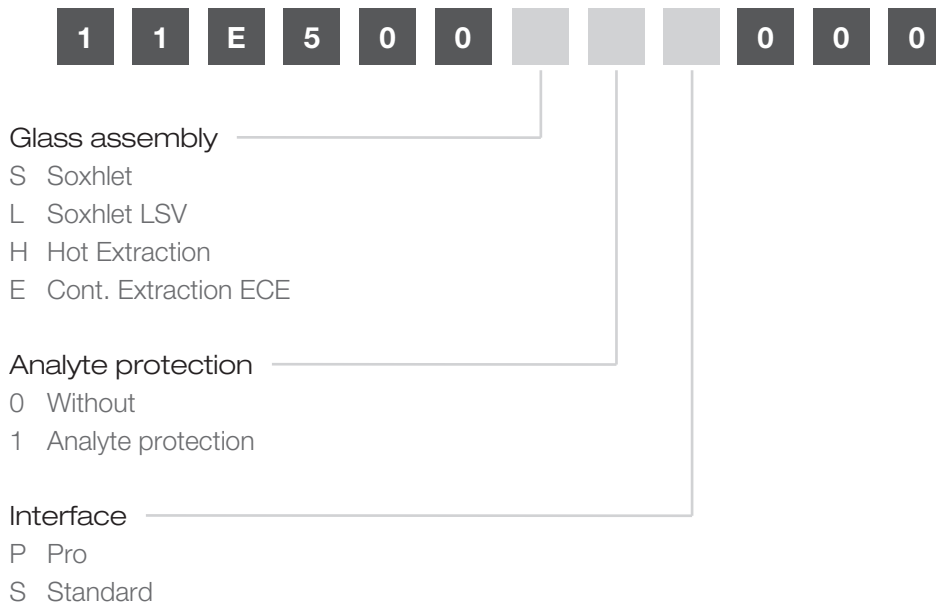


Order code FatExtractor E-500

The FatExtractor E-500 can be ordered in the following configurations: Soxhlet, Hot Extraction (e.g. Randall) or Economic Continuous Extraction (eg. Twisselmann). For large sample volumes, use the Soxhlet LSV version, suitable for extraction thimbles with a diameter of 43 mm.

The FatExtractor E-500 can be upgraded with the Analyte protection sensor for increased user safety and to prevent any loss of analyte during the extraction process. The Interface Pro consist of a 7 inch color touch display for even more intuitive uses and overview on the interface.

Choose the configuration according to your needs:



Order code FatExtractor E-500 System

The FatExtractor E-500 can be bundled with the HydrolEx H-506 for total fat determination and a Recirculating Chiller F-305/F-308.

HydrolEx H-506 performs convenient and safe acid hydrolysis as step prior to extraction. It is an essential work step of the total fat determination where matrix structures enclosing the fat fraction of food and feed samples are broken up.

The Recirculating Chiller F-305/F-308 is an environmentally friendly and water saving alternative to using tap water for cooling. The FatExtractor E-500 has to be operated either with a recirculating chiller or a tap water valve.

Choose the configuration according to your needs:



Scope of delivery

All configurations are supplied ready to use.

	Hot Extraction	Economic Continuous Extraction	Soxhlet Extraction	Soxhlet Extraction LSV
FatExtractor E-500	1	1	1	1
Power cord	1	1	1	1
Operation manual	1	1	1	1
Extraction glass chamber ECE	-	6	-	-
Extraction glass chamber Soxhlet	-	-	6	-
Extraction glass chamber Soxhlet LSV	-	-	-	6
Extraction beaker	-	6	6	6
Extraction beaker HE	6	-	-	-
Condenser E-500	6	6	6	6
Funnel	1	1	1	1
Sealing E-500	6	12	12	12
Thimble holder	12	12	12	12
Glass sample tube holder	6	6	6	6
Solvent tank (Solvent bottle and condenser)	1	1	1	1
Cooling water hose 1.5 m	1	1	1	1
Beaker tong	1	1	1	1
Pliers for glass sample tube with frit	1	1	1	1
Extraction beaker carrier	1	1	1	1

Technical data

FatExtractor E-500

Power consumption	1300 W
Connection voltage	100 - 240 ± 10 % VAC
Fuse	10 A
Frequency	50 / 60 Hz
Overvoltage category	II
Pollution degree	2
Protection Class	1
Dimensions (W x D x H)	638 x 595 x 613 mm
Dimensions (W x D x H) (with glassware Soxhlet Extraction)	638 x 595 x 742 mm
Dimensions (W x D x H) (with glassware Economic Continuous Extraction)	638 x 595 x 622 mm
Weight (without glassware)	41.8 kg
Weight (with glassware)	49.6 kg
Total heating power (rated)	600 W
Total heating power (maximum)	1200 W
Hose connection	6 / 9 mm
Allowed water pressure (nominal value)	6 bar
Allowed water pressure (maximum)	8 bar
Number of extraction positions	6
Solvent tank volume	2 L

Ambient conditions

For indoor use only.

Max. altitude above sea level	2000 m
Ambient temperature	5 - 40°C (25°C)
Maximum relative humidity	80% for temperatures up to 31°C
Storage temperature	max. 45 °C

Conversion kits

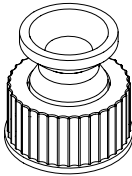
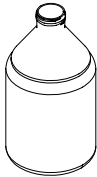
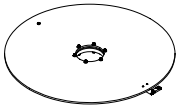
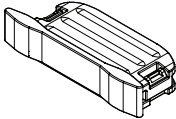
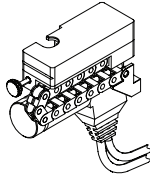
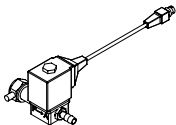
The FatExtractor E-500 can be converted into another configuration with an easy change of glass assembly. Choose the needed conversion kit according to the matrix.

from to	Soxhlet Extraction	Hot Extraction	Economic Continuous Extraction
Soxhlet Extraction		11068489	11068492
Hot Extraction	11068487		11068487
Economic Continuous Extraction	11068488	11068491	

	Order no.
Conversion kit from Soxhlet Extraction and Economic Continuous Extraction to Hot Extraction incl.: Beaker rack, tubing set Hot Extraction , beaker carrier, beaker (6)	11068487
Conversion kit from Soxhlet Extraction to Economic Continuous Extraction incl.: tubing set ECE, extraction glass chamber ECE (6)	11068488
Conversion kit from Hot Extraction to Soxhlet Extraction incl.: chamber rack (2), protection shield (2), tubing, beaker (6), extraction glass chamber Soxhlet (6)	11068489
Conversion kit from Hot Extraction to Economic Continuous Extraction incl. chamber rack (2), protection shield (2), tubing set ECE, beaker (6), extraction glass chamber ECE (6)	11068491
Conversion kit from Economic Continuous Extraction to Soxhlet Extraction incl: protection shield (2), tubing SOX, soxhlet unit cpl. (6), extraction glass chamber Soxhlet (6)	11068492
Conversion kit HE to Soxhlet LSV Includes 6 Extraction glass chamber Soxhlet LSV (11062497), 6 beaker (3 x 11067474), 6 Soxhlet assemblies cpl. (11067065) and a chamber rack (11067077), set of draining tubes for Soxhlet (11067478)	11068490
Conversion kit ECE to Soxhlet LSV Includes 6 Extraction glass chamber Soxhlet LSV (11062497), 6 Soxhlet assemblies cpl. (11067065) and a set of draining tubes for Soxhlet (11067478)	11068493

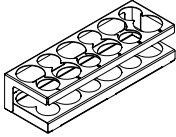
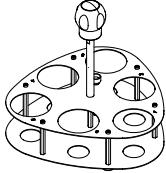
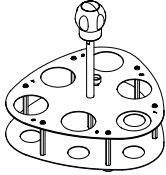
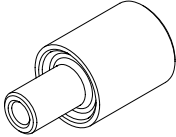
Spare parts

	Order no.	Image
Extraction glass chamber Soxhlet	11062496	
Extraction glass chamber Soxhlet LSV	11062497	
Extraction glass chamber ECE	11062499	
Set of beakers (2pcs)	11067474	
Set of beakers HE (2pcs)	11067475	
Condenser E-500 cpl.	11067063	
Condenser tank bottle	11065966	
Glass sample tubes with frit, 6 pcs.	11067497	
Glass sample tubes LSV with frit, 6 pcs.	11067814	

	Order no.	Image
Tank adapter	11064590	
Tank bottle 2 L	11065983	
Turning disk Allows for turning the instrument for easier access.	11067985	
Set of gliding elements including magnets, 10 pcs.	11067827	
Soxhlet assembly cpl. One part consisting of magnetic valve and level sensor for extraction glass chamber Soxhlet	11067065	
Cooling water valve. 24VAC Valve opens cooling water feed during distillation. Meant to be used with a vacuum controller/interface.	031356	

Accessories



	Order no.	Image
Holder for glass sample tubes, stainless steel	11067219	
Holder for glass sample tubes, PTFE	11067220	

	Order no.	Image
Holder for extraction thimbles (diameter 25 - 43 mm)	11068443	
Extraction beaker carrier Allows to carry 6 beakers (11067474)	11067042	
Extraction beaker HE carrier Allows to carry 6 beakers HE (11067475)	11067493	
Set condenser insulations E-500, 6 pcs. The insulation of the condensers prevent condensing water and is recommended in high humidity environment	11069078	
Set insulation cooling water hoses The insulation of the water hoses prevent condensing water and is recommended in high humidity environment.	11069079	
Support solvent supply Allows to fix the tubes of solvent dispensers to the condensers for convenient solvent addition.	11068306	

Consumables

	Order no.
Quartz sand 0.3 - 0.9 mm, 2.5 kg	037689
Celite® 545, 1 kg	11068920

Extraction thimbles

	Order no.	Image
Extraction thimbles 25 x 100 mm, 25 pcs.	018105	
Extraction thimbles 33 x 94 mm, 25 pcs.	11058983	

	Order no.	Image
Extraction thimbles, Set. 25 pcs, 43 x 118 mm, cellulose For Soxhlet extraction unit.	018106	