

INSTRUCTION MANUAL



Model: LF 3 / LF 5 / LF 3a / LF 5a / LF 30 / LF 31

Carefully check if the shipping carton is damaged before unpacking. Please check the items according to standard package list. If you have any guestion, please preserve serial no. & shipping carton and contact your dealer for quick solution.

Madal	Spin-Lock Filter Holder		PES Filtration Apparatus	
Model	LF 3 / 5	LF 3a / 5a	LF 30	LF 31
1. Funnel lid	Yes	Yes	Yes	Yes
2. Funnel	300 / 500 mL	300 / 500 mL	300 mL	300 mL
3. Support base	Yes	Yes	Yes	Yes
4. Silicone stopper	No. 8	-	-	No. 8
Accessory	-	-	5. Overflow protection	5. Silicone fixing sucker
Vacuum bottle	-	-	6. 1200 mL PC bottle	6. 1000 mL receiver flask with drain
	— 1 — 2 — 3 — 4	-1 -1 -1 -1 -1 -1 -1 -1	-1 -2 -3 -5 -6	—1 —2 —3 —4 —6 —5

Note: (1) PES Filter Holder LF 3a / 5a are designed for the laboratory glass bottle filtration

(2) The glass flask can withstand a maximum vacuum of 5 mbar (abs.), recommended for vacuum filtration only. Do NOT exceed the limit!

Maintenance

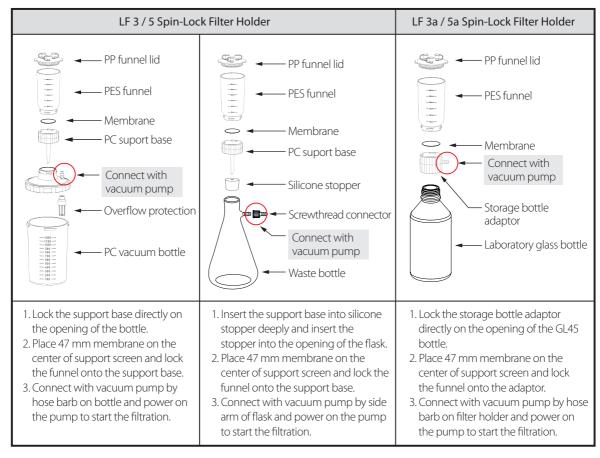
1. Cleaning

- A. Disassemble the filter holder and vacuum bottle completely.
- B. Soak all parts in clean water. Avoid abrasive cleansers.
 - If necessary, use a soft bristle brush or sponge to remove residues.
- * Do NOT use any detergents which may cause polyether sulfone (PES) to crack, thereby reducing life of the product.
- C. Rinse all parts thoroughly. Final rinse should be done with distilled or deionized water.
- D. Store in a clean, dry place.

2. Sterilization

- A. Make sure to separate funnel lid and stopper from the filter holder when autoclaved.
- B. Autoclave at 121 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 20 min.
- * Do NOT autoclave with aluminum foil. It is always recommended to autoclave the funnels in autoclave paper and bags.
- *The rubber drain hose of LF 31 is not autoclavable, please remove it before autoclave.

Usage Guide



- LF Filter Holder supports both Φ47 mm and Φ50 mm membranes.
- If a funnel lid is necessary during filtration, open a cap and insert a syringe filter for venting.
- ROCKER glass flask can withstand a max. vacuum of 5 mbar (abs.). Do NOT exceed the limit!

Ordering Information

197000-01	LF 3, Spin-Lock Filter Holder (300 mL)	197000-02	LF 3a, Spin-Lock Filter Holder (300 mL)		
197000-06	LF 5, Spin-Lock Filter Holder (500 mL)	197000-07	LF 5a, Spin-Lock Filter Holder (500 mL)		
197000-34	PES funnel, 300 mL	197000-56	PES funnel, 500 mL		
197000-35	PC support base	197000-38	Storage bottle adaptor for LF 3a / 5a		
197000-37	Membrane support screen for LF funnel	194225-01	PTFE syringe filter, 25 mm, 0.2 μm		
197000-36	PP lid kit for LF 3 / 3a	200300-36	PP lid kit for LF 5 / 5a		
167110-16	Silicone stopper (No.8)	167110-17	Silicone stopper (No.16)		
197000-31-PC PC bottle, 1200 mL		197000-39	Overflow protection		
167300-08	Receiver flask with drain, 1000 mL	167200-45	Silicone fixing sucker		
197010-30	LF 30, PES Filtration Set	197010-31	LF 31, PES Filtration Set		
167100-20	PALL A/E glass fiber membrane filter, 47 mm, 1 μm, 100/PK				
167100-52-1	Whatman ME 25 (MCE) membrane, 47 mm, 0.45 μm, 100/PK				