

# **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 question, please preserve serial no. & shipping carton and contact your dealer for quick solution.

Model	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. 16	No. 8
Accessory	-	-	5. Overflow protection	5. Silicone fixing sucker
Vacuum bottle	-	-	6. 1200 ml PC bottle	6. 1000 ml receiver flask with drain
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Note: (1) PES Filter Holder LF 3a / 5a are designed for the laboratory glass bottle filtration

#### Maintenance

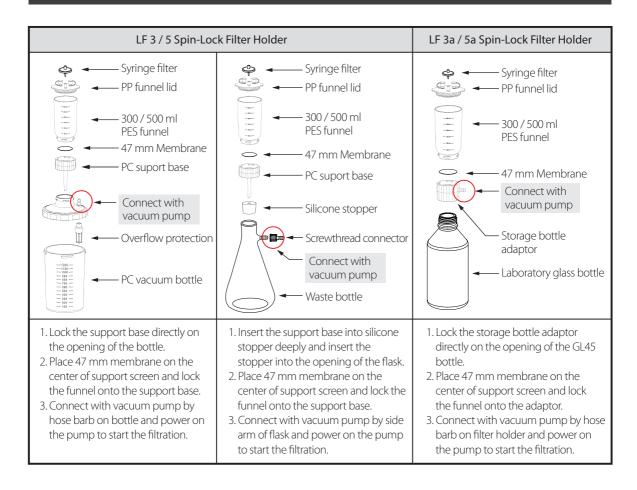
#### 1. Cleaning

- 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.
- \* Proceed with cleaning and maintenance after every use.

#### 2. Sterilization

- A. Make sure to separate funnel lid and stopper from the filer 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 bags.
- \* The rubber drain hose of LF 31 is not autoclavable, please remove it before autoclave.

### **Usage Guide**



## **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	
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, 1 µm (100/PK)			
167100-52	PALL GN-6 Metricel Membrane Filter, grid (200/PK)			