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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	Magnetic Filter Holder				PES Filtration Apparatus	
	MF 3 / 5	MF 3 / 5 Pro	MF 3a / 5a	MF 3a / 5a Pro	MF 30	MF 31
Material of filter holder	PES	PPSU	PES	PPSU	PES	PES
1. Funnel lid	Yes		Yes		Yes	Yes
2. Magnetic funnel	300 / 500 mL		300 / 500 mL		300 mL	300 mL
3. Magnetic support base	Yes		Yes		Yes	Yes
4. Silicone stopper	No. 8		-		No. 16	No. 8
Detachable hose barb	Yes		Yes		Yes	Yes
Accessory	-		-		5. Overflow protection	5. Silicone fixing sucker
Vacuum bottle	-		-		6. 1200 mL PC bottle	6. 1000 mL receiver flask with drain

Note: (1) Magnetic Filter Holder MF 3a / 5a (Pro) are designed for the laboratory glass bottle filtration.

(2) Detachable hose barb can be screwed on after removing silicone sealing plug.

(3) The applicable membrane thickness for the MF filter holder is 0.1 mm to 1 mm.

(4) 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 PES or PPSU 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 MF 31 is not autoclavable, please remove it before autoclave.

Usage Guide

MF 3 / 5 (Pro) Magnetic Filter Holder		MF 3a / 5a (Pro) Magnetic Filter Holder
Without Silicone Stopper	With Silicone Stopper	
<ol style="list-style-type: none"> 1. Place the support base directly on the opening of the bottle. 2. Place 47 mm membrane on the support screen and put the funnel onto the support base. 3. Connect with vacuum pump by detachable hose barb of filter holder and power on the pump to start the filtration. 	<ol style="list-style-type: none"> 1. Insert the support base into silicone stopper and insert the stopper into the opening of the flask. 2. Place 47 mm membrane on the support screen and put the funnel onto the support base. 3. Connect with vacuum pump by side arm of flask and power on the pump to start the filtration. 	<ol style="list-style-type: none"> 1. Place the support base directly on the opening of the bottle. 2. Place 47 mm membrane on the support screen and put the funnel onto the support base. 3. Connect with vacuum pump by detachable hose barb of filter holder and power on the pump to start the filtration.

- 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

200300-01	MF 3, Magnetic Filter Holder (300 mL)	200310-01	MF 3a, Magnetic Filter Holder (300 mL)
200500-01	MF 5, Magnetic Filter Holder (500 mL)	200510-01	MF 5a, Magnetic Filter Holder (300 mL)
200300-01-P	MF 3 Pro, Magnetic Filter Holder (300 mL)	200310-01-P	MF 3a Pro, Magnetic Filter Holder (300 mL)
200500-01-P	MF 5 Pro, Magnetic Filter Holder (500 mL)	200510-01-P	MF 5a Pro, Magnetic Filter Holder (300 mL)
200300-37	PES support screen for MF Filter Holder	200300-37-P	PPSU support screen for MF Pro Filter Holder
200300-36	PP lid kit (Include syringe filter)	167110-16	Silicone stopper (No.8)
200320-30	MF 30, PES Filtration Set	200320-31	MF 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		