

## INSTRUCTION MANUAL

Model : MF 3 / MF 5 / MF 3a / MF 5a / MF 30 / MF 31  
MF 3 Pro / MF 5 Pro / MF 3a Pro / MF 5a Pro



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.

## Maintenance

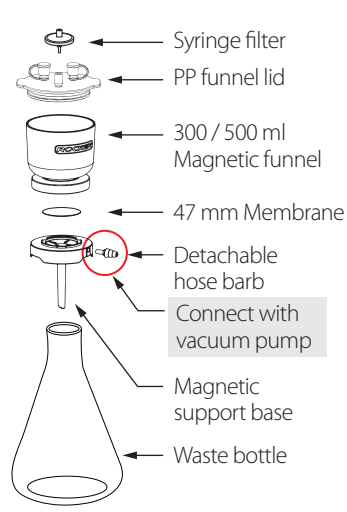
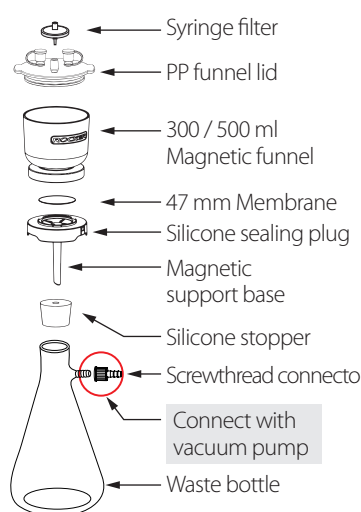
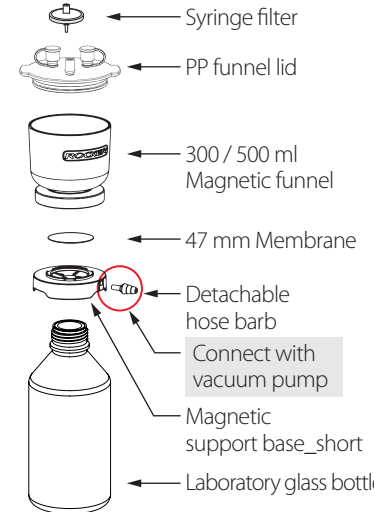
## 1. Cleaning

- Disassemble the filter holder and vacuum bottle completely.
- 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.
- Rinse all parts thoroughly. Final rinse should be done with distilled or deionized water.
- Store in a clean, dry place.

## 2. Sterilization

- Make sure to separate funnel lid and stopper from the filter holder when autoclaved.
- 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 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	
 <p>Syringe filter</p> <p>PP funnel lid</p> <p>300 / 500 ml Magnetic funnel</p> <p>47 mm Membrane</p> <p>Detachable hose barb</p> <p>Connect with vacuum pump</p> <p>Magnetic support base</p> <p>Waste bottle</p>	 <p>Syringe filter</p> <p>PP funnel lid</p> <p>300 / 500 ml Magnetic funnel</p> <p>47 mm Membrane</p> <p>Silicone sealing plug</p> <p>Magnetic support base</p> <p>Silicone stopper</p> <p>Screwthread connector</p> <p>Connect with vacuum pump</p> <p>Waste bottle</p>	 <p>Syringe filter</p> <p>PP funnel lid</p> <p>300 / 500 ml Magnetic funnel</p> <p>47 mm Membrane</p> <p>Detachable hose barb</p> <p>Connect with vacuum pump</p> <p>Magnetic support base_short</p> <p>Laboratory glass bottle</p>
<ol style="list-style-type: none"> <li>1. Place the support base directly on the opening of the bottle.</li> <li>2. Place 47 mm membrane on the support screen and put the funnel onto the support base.</li> <li>3. Connect with vacuum pump by detachable hose barb of filter holder and power on the pump to start the filtration.</li> </ol>	<ol style="list-style-type: none"> <li>1. Insert the support base into silicone stopper and insert the stopper into the opening of the flask.</li> <li>2. Place 47 mm membrane on the support screen and put the funnel onto the support base.</li> <li>3. Connect with vacuum pump by side arm of flask and power on the pump to start the filtration.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place the support base directly on the opening of the bottle.</li> <li>2. Place 47 mm membrane on the support screen and put the funnel onto the support base.</li> <li>3. Connect with vacuum pump by detachable hose barb of filter holder and power on the pump to start the filtration.</li> </ol>

## Ordering Information

200300-01	MF 3, Magnetic Filter Holder (300 ml)
200500-01	MF 5, Magnetic Filter Holder (500 ml)
200300-01-P	MF 3 Pro, Magnetic Filter Holder (300 ml)
200500-01-P	MF 5 Pro, Magnetic Filter Holder (500 ml)
200300-37	PES Magnetic Filter Holder Support Screen
200300-36	PP Lid Kit (Include Syringe Filter)
200320-30	MF 30, PES Filtration Set
167100-20	PALL A/ E Glass Fiber Membrane Filter, 1 $\mu$ m (100/PK)
167100-52	PALL GN-6 Metrcel Membrane Filter, grid (200/PK)

200310-01	MF 3a, Magnetic Filter Holder (300 ml)
200510-01	MF 5a, Magnetic Filter Holder (300 ml)
200310-01-P	MF 3a Pro, Magnetic Filter Holder (300 ml)
200510-01-P	MF 5a Pro, Magnetic Filter Holder (300 ml)
200300-37-P	PPSU Magnetic Filter Holder Support Screen
167110-16	Silicone Stopper (No.8)
200320-31	MF 31, PES Filtration Set