## WaterVac100 **Vacuum Filtration System**

#### **Features**

#### Save 70% bench space

The compact design of WaterVac 100 vacuum filtration system can save much workbench space by simplifying procedure and tools needed in membrane filtration method.

#### Improve operation time

Direct drainage design saves a lot of time to empty waste liquid and make the filtration more efficient.

#### Versatile

Replaceable funnel adaptor design makes WaterVac 100 compatible with various kinds of filter holder.

#### Easy Operation

Simply put membrane on filter holder and push on/off button to start filtration easily.

International certification CE certification

One-Year Warranty

### **Applications**

- Microbiological test
- Vacuum filtration

### **Ordering Information**

#### 190100-01(02)

WaterVac 100, Vacuum Filtration System with AC100-240V adaptor, US plug(EU plug)

#### 190110-01(02)

WaterVac 100 - MS, Vacuum Filtration System with No. 8 stopper funnel adaptor, AC100-240V adaptor, US plug (EU plug)

#### 200300-01

MF3, 300 ml Magnetic Filter Holder with lid kit

#### 200500-01

MF5, 500 ml Magnetic Filter Holder with lid kit

# WaterVac 100 - MS





Compatible with various kinds of adaptor and filter holder

#### **Specification**

**R**OCKER

Improve operation time

Model	WaterVac 100
nput voltage	DC 12 V, 1.5A
Max. vacuum	313 mbar / 70 kPa / 20.7 inHg
Max. liquid flow rate	0.5 L/min
Notor	12W Brushless DC Motor
lose barb	1/4 inch (6 mm)
Material contact with filtrate	SS316, FKM, Silicone, PP, PA66
Veight	1.16 Kg
Dimension (LxWxH)	17 x 12 x 9.6 cm
	WaterVac 100 - MS
Adaptor	No. 8 stopper
ilter holder	MF 3 / MF 5, magnetic filter holder (optional)



## WaterVac100 **Vacuum Filtration System**

#### **Features**

#### Save 70% bench space

The compact design of WaterVac 100 vacuum filtration system can save much workbench space by simplifying procedure and tools needed in membrane filtration method.

#### Improve operation time

Direct drainage design saves a lot of time to empty waste liquid and make the filtration more efficient.

#### Compatible with Rocker SS funnel

WaterVac 100-MB can accept Rocker SS funnel,100/300/500 ml funnel at option.

#### SS316 funnel

SS funnel is made of SS316 stainless steel which offers excellent chemical resistance.

- International certification CE certification
- One-Year Warranty
- Vacuum filtration

### **Ordering Information**

#### 190100-01(02)

WaterVac 100, Vacuum Filtration System with AC100-240V adaptor, US plug(EU plug)

#### 190120-01(02)

WaterVac 100 - MB, Vacuum Filtration System with Rocker SS funnel adaptor, AC100-240V adaptor, US plug(EU plug)

#### 190121-01(02)

System with Rocker SS funnel adaptor, plug (EU plug)

WaterVac 101 - MB

### Applications

#### Microbiological test

### Specification Model

Max. vacuum

Motor

Weight

Adaptor Funnel

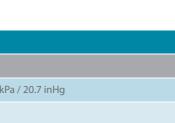
Hose barb

Max. liquid flow rate

Material contact with filt

Dimension (LxWxH)

WaterVac 101 - MB, Vacuum Filtration 100ml SS funnel, AC100-240V adaptor, US











	WaterVac 100		
	DC 12 V, 1.5A		
	313 mbar / 70 kPa / 20.7 inHg		
	0.5 L/min		
	12W Brushless DC Motor		
	1/4 inch (6 mm)		
rate	SS316, FKM, Silicone, PP, PA66		
	1.16 Kg		
	17 x 12 x 9.6 cm		
	WaterVac 100 - MB	WaterVac 101 - MB	
	Spin-lock design	Spin-lock design	
	SS stainless steel funnel (optional)	SS stainless steel funnel (100 ml)	

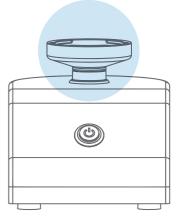


# How to order?

You can select Combination A, B or C to complete your order









Pall, 100 ml / 250 ml disposable plastic funnel (4870/4871)





SS316 Adaptor for Pall disposable plastic funnel (190100-75)



Silicone Tube Ø 4.2 - 8 mm, 200 cm (199100-68)





SS316 Hose barb for silicone tube (Ø 4 - 8 mm) (190100-76)



## WaterVac 200 **Vacuum Filtration System**

#### **Features**

#### Save time

A built-in liquid pump can transfer filtered liquid directly to waste, save time by simplifying filtration process.

#### Save 70% bench space

Integrates liquid pump and filter holders into an instrument, no need of waste bottle and connecting tubing which is necessary for traditional air pump.

#### Compliance with ISO 8199

WaterVac 200 complies with ISO 8199 regulation and is ideal for microbiological sample filtration. (\*ISO 8199: Water quality -General guidance for microbiological examinations by culture).

#### Versatile

Replaceable funnel adaptor makes it compatible with various kinds of filter holder.

#### International certification

CE certification IP 41 protection **RoHS** certification

One-Year Warranty

#### **Applications**

- Microbiological test
- Suspended solid test
- Vacuum filtration

### **Ordering Information**

#### 190210-01(02)

WaterVac 200 - MS, Vacuum Filtration System with AC100-240V adaptor, US plug (EU plug) 200300-01 MF3, 300 ml Magnetic Filter Holder with lid kit 200500-01 MF5, 500 ml Magnetic Filter Holder with lid kit





360° Rotational L - type hose barb



Compatible with various kinds of adaptor and filter holder

8 8

#### **Specification**

Model	WaterVac 200
Input voltage	DC 24V, 2.5A
Max. vacuum	313 mbar / 70 kPa / 20.7 inHg
Max. liquid flow rate	4.5 L/min
Motor	60W Brushless DC Motor
Noise level	60 dB
Hose barb	5/16 inch (8 mm)
Material contact with filtrate	Stainless steel, FKM, Silicone, PP, PPS
Weight	2.8 Kg
Dimension (LxWxH)	21.4 x 18.3 x 26.4 cm
	WaterVac 200 - MS
Adaptor	No. 8 stopper
Filter holder	MF 3 / MF 5, magnetic filter holder (optional)

## WaterVac 200 **Vacuum Filtration System**

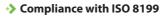
#### **Features**

#### Save time

A built-in liquid pump can transfer filtered liquid directly to waste, save time by simplifying filtration process.

#### Save 70% bench space

Integrates liquid pump and filter holders into an instrument, no need of waste bottle and connecting tubing which is necessary for traditional air pump.



WaterVac 200 complies with ISO 8199 regulation and is ideal for microbiological sample filtration. (\*ISO 8199: Water quality -General guidance for microbiological examinations by culture).

#### Compatible with Rocker SF funnel

WaterVac 200 - MB can accept Rocker SF funnel – 100 / 300 / 500 ml. SF funnel is made of SS316 stainless steel which can be fast sterilized by flame.

#### International certification

CE certification IP 41 protection **RoHS** certification

One-Year Warranty

#### **Applications**

- Microbiological test
- Suspended solid test
- Vacuum filtration

### **Ordering Information**

#### 190220-01(02)

WaterVac 200 - MB, Vacuum Filtration System with AC100-240V adaptor, US plug (EU plug)

#### 190221-01(02)

WaterVac 201 - MB, Vacuum Filtration System with Rocker SF funnel adaptor, 100 ml SF funnel, AC100-240V adaptor, US plug (EU plug)



#### **Specification**

Model
Input voltage
Max. vacuum
Max. liquid flow rate
Motor
Noise level
Hose barb
Material contact with fill
Weight
Dimension (LxWxH)
Adaptor
Funnel

**NEW** 





	WaterVac 200		
	DC 24V, 2.5A		
	313 mbar / 70 kPa / 20.7 inHg		
	4.5 L/min		
	60W Brushless DC Motor		
	60 dB		
	5/16 inch (8 mm)		
rate	Stainless steel, FKM, Silicone, PP, PPS		
	2.8 Kg		
	21.4 x 18.3 x 26.4 cm		
	WaterVac 200 - MB	WaterVac 201 - MB	
	Spin-lock design	Spin-lock design	
	SF Stainless Steel Funnel (Optional)	SF stainless steel funnel (100 ml x 2)	
rate	Stainless steel, FKM, Silicone, PP, P 2.8 Kg 21.4 x 18.3 x 26.4 cm WaterVac 200 - MB Spin-lock design SF Stainless Steel Funnel	WaterVac 201 - MB Spin-lock design SF stainless steel funnel	



# How to order?

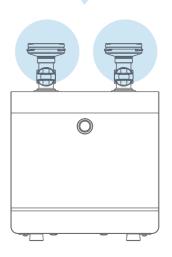
You can select Combination A, B or C to complete your order







We can offer customized adaptor for your funnel





Pall, 100 ml / 250 ml disposable plastic funnel (4870/4871)





SS316 Adaptor for Pall disposable plastic funnel (180300-30)



# **Filtration Accessories**

# **Filtration Accessories**

#### PP Heavy-Duty Vacuum Bottle

Specification



#### PES / PC Waste Bottles

Specification	1200 ml, PES waste bottle	1200 ml, PC waste bottle
Catalog number	197000-11	197000-11-PC
Graduated increment	100 ml	100 ml
Overflow protection	Yes	Yes
Cap with suction fitting	Yes	Yes
Hose barb	5/16 (8 mm)	5/16 (8 mm)
Autoclavable	Yes	Yes





#### GL45 Suction Cap / Filtration Adaptor

GL45 suction cap	GL45 filtration adaptor			
Catalog number197000-60197000-65Material of capPPPP		Catalog number	197200-47	197200 1/4 inc
-	PTFE No. 8 stopper	Graduated increment	500 ml	500 ml Yes
1/4 inch (6 mm) Yes	4 - 8 mm Yes	Hose barb Drain device	1/4 inch (6 mm) -	1/4 inc Yes Yes
	197000-60 PP - - 1/4 inch (6 mm)	197000-60       197000-65         PP       PP         -       PTFE         -       No. 8 stopper         1/4 inch (6 mm)       4 - 8 mm	197000-60197000-65Catalog numberPPPPHose barb-PTFEGraduated increment-No. 8 stopperOverflow protection1/4 inch (6 mm)4 - 8 mmHose barbYorYorYor	197000-60197000-65Catalog number197200-47PPPPHose barb1/4 inch hose barb-PTFEGraduated increment500 ml-No. 8 stopperOverflow protectionYes1/4 inch (6 mm)4 - 8 mmHose barb1/4 inch (6 mm)YesYesDrain device-



Specification	Glass fiber filte
Catalog number	167100-20
Brand	Pall

**Membrane Filters** 

Filter diameter

Material of filter

Pore size

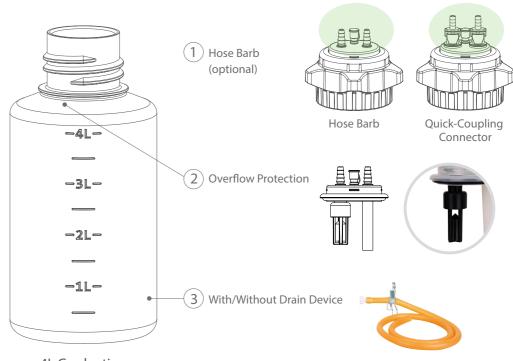
Package

Glass fiber filter	MCE membrane
167100-20	167100-52
Pall	Pall
47 mm	47 mm
1µm	0.45µm
Glass fiber	MCE
100/PK	200/PK



#### Silicone Fixing Sucker

Specification	Silicone fixing sucker	
Catalog number Material Compatible receiver flask Autoclavable	167200-45 Silicone 1000 ml receiver flask Yes	VIDEO



4L Graduation

\* PES : Polyethersulfone, PC : Polycarbonate, PP : Polypropylene





#### 4000 ml, PP vacuum bottle with drain



4000 ml, PP vacuum bottle with quick-coupling connector



200-48 nch hose barb ml

nch (6 mm)

197200-53 1/4 inch quick-coupling connector 500 ml Yes 1/4 inch (6 mm) \_ Yes

\* PES : Polyethersulfone, PC : Polycarbonate, PP : Polypropylene

# **Filtration Apparatus Selection Guide**



Filter Holder MF 3 / MF 3a / MF 5 / MF 5a LF 3 / LF 3a / LF 5 / LF 5a **Stainless Steel Filter Holder** SF 1 / SF 3 / SF 5 SS 1 / SS 3 / SS 5 LF 30 / MF 31 VF 2 / VF 11 VF5/VF8/VF6/VF7 VF 3 / VF 10 / VF 12 / VF 15 Filtration System Rocker 300 - LF 30 / Rocker 300 - MF 31 Rocker 300C - VF 12 / Chemker 300 - VF 12 Lafil 300C - VF 12 Lafil 300 - LF 30 / Lafil 300 - LF 32 Lafil 400 - LF 30 / Lafil 400 - LF 32 Manifold MutilVac 310 - MS / MutilVac 610 - MS MutilVac 300 - MS / MutilVac 600 - MS MutilVac 300 - MB / MutilVac 600 - MB MutilVac 301 - MB / MutilVac 601 - MB MultiVac 310 - MS - A / MultiVac 610 - MS - A MultiVac 301 - MB - A / MultiVac 601 - MB - A

Filtration Apparatus Selection Guide

MutilVac 310 - MS - T / MutilVac 610 - MS - T MutilVac 301 - MB - T / MutilVac 601 - MB - T **Filtration System** 

WaterVac 100 - MS / WaterVac 100 - MB / WaterVac 101 - MB WaterVac 200 - MS / WaterVac 200 - MB / WaterVac 201 - MB



**R**OCKER

\*PES : Polyethersulfone

## **MF, Magnetic Filter Holder**





#### Features

- > Compatible with various kinds of bottle, vacuum flask with or without side arm to collect filtrate directly.
- Strong magnetic seal allows one-handed operation, prevents possible twisting and tearing of the membrane.

300 ml / 500 ml

25 mm, 0.2 μm

47 mm

13.1 cm<sup>2</sup>

4-8 mm

21°C / 1 bar / 20

TAIWAN

- Membrane guide on the base helps position membrane easily.
- > PES (Polyethersulfone) construction, resistant to a wide range of chemicals and high temperature, sturdy and unbreakable.
- MF magnetic filter holder was awarded the United States (US 9.452.373B1), Taiwan (I551337) and China (ZL 2015 2 0050109.6) invention patent.
- International environmental declaration: RoHS certification

#### Specifications

Material	MF 3 / MF 5	MF 3a / MF 5a
Funnel	PES	PES
Support base	PES	PES
Membrane support	PES	PES
Funnel lid	PP	PP
Hose barb	PES	PES
Syringe filter	PTFE	PTFE

#### Specifications

Funnel capacity Filter diameter Effective filtration Syringe filter Hose barb

300 ml / 500 ml
47 mm
13.1 cm <sup>2</sup>
25 mm, 0.2 μm
4-8 mm

#### **Ordering Information**

# **LF, Spin-Lock Filter Holder**



LF 3a

LF 5a

#### Features

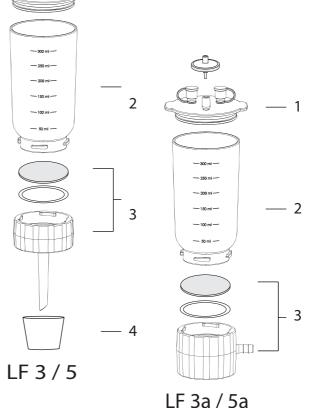
- > Funnel graduated in 50ml increments for easy measurement.
- LF 3 / 5 equips with No. 8 stopper that allows it to fit other receiver flasks.
- LF 3a / 5a is available to fit any GL45 laboratory glass bottle.

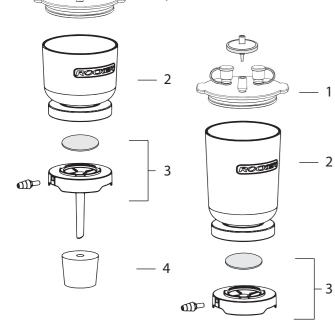
#### **Specifications** Material

#### Funnel Support base Membrane support Funnel lid Cap of lid Syringe filter

#### Specifications

Funnel capacity Filter diameter Effective filtration area Syringe filter Lid inlet fitting diameter





MF 3 / 5

MF 3a / 5a

**ROCKER** 







Spin-lock connection (M381450) facilitates fast and stable installation without clamp. > PES structure offers excellent smash, high temperature (180°C) resistance and autoclavable.

- Scroove design on membrane support facilitates filtration speed.
- Reusable, friendly to the earth and save your money.

	LF 3 / LF 5	LF 3a / LF 5a	
	PES	PES	
	PC	PC	
	PP	PP	
	PP	PP	
	Silicone	Silicone	
	PTFE	PTFE	
	300 ml / 500 ml	300 ml / 500 ml	
	47 mm	47 mm	
а	$12.5 \text{ cm}^2$	$12.5 \text{ cm}^2$	
	25 mm, 0.2 μm	25 mm, 0.2 μm	
ter	7 mm	7 mm	

LF 3, Spin-Lock Filter Holder (300 ml) 197000-01				
LF 5, Spin-Lock Filter Holder (500 ml)	197000-06			
<ol> <li>LF 3, PP lid kit</li> <li>LF 5, PP lid kit</li> <li>PES funnel, 300 ml</li> <li>PES funnel, 500 ml</li> <li>PC support base</li> <li>Silicone stopper (No. 8)</li> </ol>	197000-36 200300-36 197000-34 197000-56 197000-35 167110-16			
LF 3a, Spin-Lock Filter Holder (300 ml)	197000-02			
LF 5a, Spin-Lock Filter Holder (500 ml)	197000-07			
<ol> <li>LF 3a, PP lid kit</li> <li>LF 5a, PP lid kit</li> <li>PES funnel, 300 ml</li> <li>PES funnel, 500 ml</li> </ol>	197000-36 200300-36 197000-34 197000-56			
3 Storage bottle adaptor	197000-38			



# **SF, Stainless Steel Filter Holder**



#### Features

- New outer spin-lock connection facilitates fast and stable installation without clamp.
- Laser-marked graduation helps accurately sample addition.
- Forceps access points on support base help retrieve membrane easily.
- SS316 funnel offers excellent chemical resistance and can be fast sterilized by flame.

#### **Specifications**



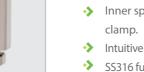
SF, Stainless Steel Funnel Lid (optional)

Material	100 ml	300 ml	500 ml
Funnel	SS316	SS316	SS316
Support base	SS316	SS316	SS316
Membrane support	SS316	SS316	SS316
Funnel lid	SS316	SS316	SS316
Specifications			
Funnel capacity	100 ml	300 ml	500 ml
Filter diameter	47 mm	47 mm	47 mm
Effective filtration area	11.6 cm <sup>2</sup>	11.6 cm <sup>2</sup>	11.6 cm <sup>2</sup>
Support pore size	70 µm	70 µm	70 µm

# **SS, Stainless Steel Filter Holder**

Features





#### **Specifications** Material

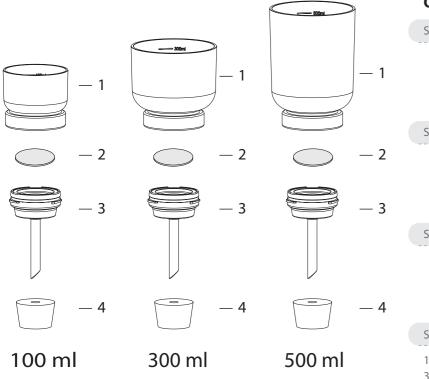


SS, Stainless Steel Funnel Lid (optional)

Membrane support Funnel lid Specifications

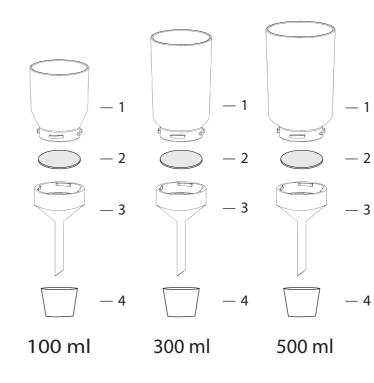
Funnel Support base

Funnel capacity Filter diameter Effective filtration area Support pore size



#### **Ordering Information**

SF 1, Stainless Steel Filter Holder (100 ml) 180100-10					
<ol> <li>Stainless steel funnel, 100 ml</li> <li>Stainless steel support screen</li> <li>Stainless steel support base</li> <li>Silicone stopper (No.8)</li> </ol>	180100-01 180100-31 180100-00 167110-16				
SF 3, Stainless Steel Filter Holder (300 ml)	180100-30				
<ol> <li>Stainless steel funnel, 300 ml</li> <li>Stainless steel support screen</li> <li>Stainless steel support base</li> <li>Silicone stopper (No.8)</li> </ol>	180100-03 180100-31 180100-00 167110-16				
SF 5, Stainless Steel Filter Holder (500 ml)	180100-50				
<ol> <li>Stainless steel funnel, 500 ml</li> <li>Stainless steel support screen</li> <li>Stainless steel support base</li> <li>Silicone stopper (No.8)</li> </ol>	180100-05 180100-31 180100-00 167110-16				
SF, Stainless Steel Lid					
100 ml Stainless steel lid         180100-11           300 ml / 500 ml Stainless steel lid         180100-13					



**R**OCKER



> Inner spin-lock connection (M381450) facilitates fast and stable installation without

Intuitive operation by 360° ring graduation mark.

SS316 funnel offers excellent chemical resistance and can be fast sterilized by flame.

	100 ml	300 ml	500 ml
	SS316	SS316	SS316
	100 ml	300 ml	500 ml
	47 mm	47 mm	47 mm
а	9.6 cm <sup>2</sup>	9.6 cm <sup>2</sup>	9.6 cm <sup>2</sup>
	70 µm	70 µm	70 µm

SS 1, 5	Stainless Steel Filter Holder (100 ml)	167103-10
1 2 3 4	Stainless steel funnel, 100 ml Stainless steel support screen Stainless steel support base Silicone stopper (No.8)	167103-61 167100-31 167103-60 167110-16
SS 3,	Stainless Steel Filter Holder (300 ml)	167103-30
1 2 3 4	Stainless steel funnel, 300 ml Stainless steel support screen Stainless steel support base Silicone stopper (No.8)	167103-63 167100-31 167103-60 167110-16
SS 5, 5	Stainless Steel Filter Holder (500 ml)	167103-50
1 2 3 4	Stainless steel funnel, 500 ml Stainless steel support screen Stainless steel support base Silicone stopper (No.8)	167103-65 167100-31 167103-60 167110-16
SS, St	ainless Steel Lid	
300 r	nl Stainless steel lid nl Stainless steel lid nl Stainless steel lid	167103-11 167103-13 167103-15



LF 30

MF 31

# **47 mm PES Filtration Apparatus**



#### **Features**

- LF 30: Spin-lock connection (M381450) and built-in overflow protection provide a fast, stable and safe operation.
- MF 31: Strong magnetic seal (I5551337) allows one-handed operation and can drain the filtrate away directly without removing tubes.

#### Applications

General filtration, such as microbiological test, suspended solid analysis etc.

#### **Specifications**

Material	LF 30	MF 31
Funnel	PES	PES
Support base	PC	PES
Membrane support	PP	PES
Receiver flask	PC	Borosilicate glass
Syringe filter	PTFE	PTFE
Drain hose	-	Rubber (non-autoclavable)
Specifications		
Funnel capacity	300 ml	300 ml
Flask capacity	1200 ml	1000 ml
Filter diameter	47 mm	47 mm
Effective filtration area	12.5 cm <sup>2</sup>	13.1 cm <sup>2</sup>
Hose barb	5/16 inch (8 mm)	5/16 inch (8 mm)
Syringe filter	25 mm, 0.2 μm	25 mm, 0.2 μm
Drain device	-	Yes

### — 1 — 2 - 2 - 3 $\bigcirc$ - 3 — 4 5 4 — б - 5 — 7 6 LF 30 MF 31

## **Ordering Information**

1       PP lid kit       197000-36         2       PES funnel, 300 ml       197000-34         3       PC support base       197000-35         4       Black PP cap       197000-40         5       PC cover       197000-32-PC         6       Overflow protection       197000-31-PC         MF 31, 47 mm Filtration Set       200320-31         1       PP lid kit for magnetic funnel       200300-36         2       PES magnetic funnel, 300ml       200300-30         3       PES magnetic support base       200300-32         4       Silicone stopper (No.8)       167110-16         5       Receiver flask with drain, 1000 ml       167300-08         (with screwthread connector)       6       Silicone fixing sucker	LF 30,	47 mm Filtration Set	197010-30
3         PC support base         197000-35           4         Black PP cap         197000-40           5         PC cover         197000-32-PC           6         Overflow protection         197000-31-PC           7         PC bottle, 1200 ml         197000-31-PC           MF 31, 47 mm Filtration Set         200320-31           1         PP lid kit for magnetic funnel         200300-36           2         PES magnetic funnel, 300ml         200300-30           3         PES magnetic support base         200300-32           4         Silicone stopper (No.8)         167110-16           5         Receiver flask with drain, 1000 ml         167300-08           (with screwthread connector )         167300-08	1	PP lid kit	197000-36
4         Black PP cap         197000-40           5         PC cover         197000-32-PC           6         Overflow protection         197000-39           7         PC bottle, 1200 ml         197000-31-PC           MF 31, 47 mm Filtration Set         200320-31           1         PP lid kit for magnetic funnel         200300-36           2         PES magnetic funnel, 300ml         200300-30           3         PES magnetic support base         200300-32           4         Silicone stopper (No.8)         167110-16           5         Receiver flask with drain, 1000 ml         167300-08           (with screwthread connector)         167400-32	2	PES funnel, 300 ml	197000-34
5PC cover197000-32-PC6Overflow protection197000-397PC bottle, 1200 ml197000-31-PCMF 31, 47 mm Filtration Set200320-311PP lid kit for magnetic funnel200300-362PES magnetic funnel, 300ml200300-303PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml167300-08( with screwthread connector )10001000	3	PC support base	197000-35
6Overflow protection197000-397PC bottle, 1200 ml197000-31-PCMF 31, 47 mm Filtration Set200320-311PP lid kit for magnetic funnel200300-362PES magnetic funnel, 300ml200300-303PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml (with screwthread connector)167300-08	4	Black PP cap	197000-40
7PC bottle, 1200 ml197000-31-PCMF 31, 47 mm Filtration Set200320-311PP lid kit for magnetic funnel200300-362PES magnetic funnel, 300ml200300-303PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml (with screwthread connector)167300-08	5	PC cover	197000-32-PC
MF 31, 47 mm Filtration Set200320-311PP lid kit for magnetic funnel200300-362PES magnetic funnel, 300ml200300-303PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml (with screwthread connector)167300-08	6	Overflow protection	197000-39
1PP lid kit for magnetic funnel200300-362PES magnetic funnel, 300ml200300-303PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml167300-08( with screwthread connector )167300-08	7	PC bottle, 1200 ml	197000-31-PC
2PES magnetic funnel, 300ml200300-303PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml167300-08( with screwthread connector )167300-08			
3PES magnetic support base200300-324Silicone stopper (No.8)167110-165Receiver flask with drain, 1000 ml167300-08( with screwthread connector )	MF 31	, 47 mm Filtration Set	200320-31
4 Silicone stopper (No.8) 167110-16 5 Receiver flask with drain, 1000 ml 167300-08 ( with screwthread connector )			
5 Receiver flask with drain, 1000 ml 167300-08 ( with screwthread connector )	1	PP lid kit for magnetic funnel	200300-36
( with screwthread connector )	1 2	PP lid kit for magnetic funnel PES magnetic funnel, 300ml	200300-36 200300-30
	1 2 3	PP lid kit for magnetic funnel PES magnetic funnel, 300ml PES magnetic support base	200300-36 200300-30 200300-32
6 Silicone fixing sucker 167200-45	1 2 3 4	PP lid kit for magnetic funnel PES magnetic funnel, 300ml PES magnetic support base Silicone stopper (No.8)	200300-36 200300-30 200300-32 167110-16
	1 2 3 4	PP lid kit for magnetic funnel PES magnetic funnel, 300ml PES magnetic support base Silicone stopper (No.8) Receiver flask with drain, 1000 m	200300-36 200300-30 200300-32 167110-16

# **47 mm Stainless Steel Filtration Apparatus**



## **Features**

### Applications

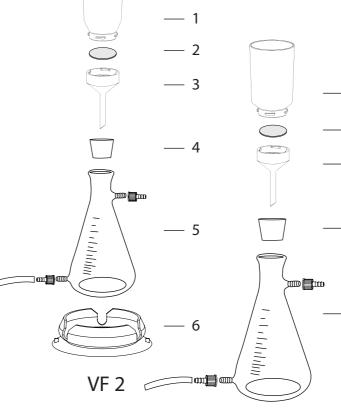
#### **Specifications**



Funnel Support base Membrane support Stopper Receiver flask Drain hose

#### Specifications

Funnel capacity Flask capacity Filter diameter Effective filtration area Hose barb Funnel graduation



VF 11



**R**OCKER

**ROCKER** 





Spin-lock connection (M381450) facilitates fast and stable installation without clamp. SS316 funnel offers excellent chemical resistance and can be fast sterilized by flame. Drains the filtrate away directly without removing the tubes.

Microbiological test and purification of corrosive liquid, solvent etc.

VF 2	VF 11
SS316	SS316
SS316	SS316
SS316	SS316
Silicone rubber (No.8)	Silicone rubber (No.18)
Borosilicate glass	Borosilicate glass
Rubber (non-autoclavable)	Rubber (non-autoclavable)
100 ml	500 ml
1000 ml	2000 ml

	100 ml	500 ml
	1000 ml	2000 ml
	47 mm	47 mm
а	9.6 cm <sup>2</sup>	9.6 cm <sup>2</sup>
	5/16 inch (8 mm)	5/16 inch (8 mm)
	50 ml / 100 ml	300 ml / 500 ml

	VF 2, 4	17 mm Stainless Steel Filtration Set	167200-02
	SS 1, 5	Stainless Steel Filter Holder (100 ml)	167103-10
1	1 2 3	Stainless steel funnel, 100 ml Stainless steel support screen	167103-61 167100-31 167103-60
2	4	Stainless steel support base Silicone stopper (No.8)	167110-16
3	5	Receiver flask with drain, 1000 ml ( with screwthread connector )	167300-08
	6	Silicone fixing sucker	167200-45
4	VF 11,	47 mm Stainless Steel Filtration Set	167200-11
	SS 5, 9	Stainless Steel Filter Holder (500 ml)	167103-50
5	1 2 3	Stainless steel funnel, 500 ml Stainless steel support screen Stainless steel support base	167103-65 167100-31 167103-60
	4	Silicone stopper (No.18)	167110-18
	5	Receiver flask with drain, 2000 ml ( with screwthread connector )	167200-13

VF 5

VF 8

# **25 mm Microanalysis Glass Filtration Apparatus**

Features

Applications

**Specifications** 

Material

Support base

Receiver flask

Specifications

Funnel capacity

Flask capacity

Filter diameter

Hose barb

VF 8

**ROCKER** 

Effective filtration area

Membrane support

Funnel

Clamp

Stopper



# **47 mm Glass Filtration Apparatus**



## Features

#### **Applications**

analysis etc.

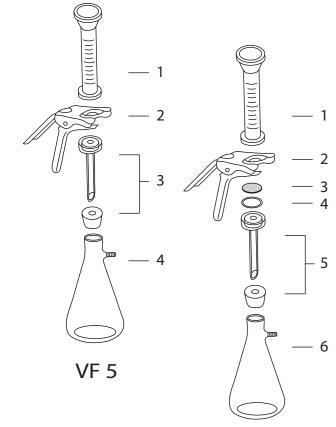
#### **Specifications**

#### Material



#### Specifications

Funnel capacity Flask capacity Filter diameter Effective filtration are Hose barb



VF 5, 2	25mm Microanalysis Glass Filtration Set	167200-05
15 ml	167120-32	
1 2 3	Glass funnel, 15 ml Aluminum clamp Sintered glass support base ( Including No.5 silicone stopper )	167220-15 167240-05 167230-04
4	Receiver flask, 125 ml	167250-05
VF 8, 2	25 mm Microanalysis Glass Filtration Set	167200-08
15 ml	Glass filter holder	167120-34
1 2 3 4 5	Glass funnel, 15 ml Aluminum clamp SS support screen PTFE gasket Glass support base ( Including No.5 silicone stopper )	167220-15 167240-05 167230-32 167230-42 167230-08
6	Receiver flask, 125 ml	167250-05

VF 8

Borosilicate glass

Borosilicate glass

Borosilicate glass

5/16 inch (8 mm)

Aluminum

15 ml

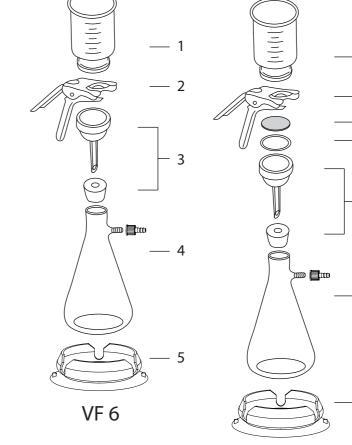
125 ml

25 mm

2.2 cm<sup>2</sup>

SS screen with PTFE gasket

Silicone rubber (No.5)



VF 7

### VF 7

### **Ordering Information**

> Clearly-marked graduations in funnel are convenient for sample addition.

VF 5

Sintered glass or stainless steel screen membrane support to meet your needs.

Small volume vacuum filtration for biological or particulate contamination analysis.

Borosilicate glass

Borosilicate glass

Borosilicate glass

5/16 inch (8 mm)

Silicone rubber (No.5)

Sintered glass

Aluminum

15 ml

125 ml

25 mm

2.2 cm<sup>2</sup>

15 ml	Glass filter holder	167120-32
1 2 3	Glass funnel, 15 ml Aluminum clamp Sintered glass support base ( Including No.5 silicone stopper )	167220-15 167240-05 167230-04
4	Receiver flask, 125 ml	167250-05
VF 8, 2	25 mm Microanalysis Glass Filtration Set	167200-08
15 ml	Glass filter holder	167120-34
15 ml 1 2 3 4 5	Glass filter holder Glass funnel, 15 ml Aluminum clamp SS support screen PTFE gasket Glass support base (Including No.5 silicone stopper)	167120-34 167220-15 167240-05 167230-32 167230-42 167230-08

25





The screwthread connector helps remove the silicone tube quickly. The silicone fixing sucker prevents the receiver flask from tipping over accidentally.

Solvent purification and general filtration such as microbiology, suspended solid

	VF 6	VF 7
	Borosilicate glass Borosilicate glass Sintered glass Aluminum Silicone rubber (No.8) Borosilicate glass	Borosilicate glass Borosilicate glass SS screen with PTFE gasket Aluminum Silicone rubber (No.8) Borosilicate glass
ea	300 ml 1000 ml 47 mm 9.6 cm <sup>2</sup> 5/16 inch (8 mm)	300 ml 1000 ml 47 mm 9.6 cm <sup>2</sup> 5/16 inch (8 mm)

1	VF 6, -	47 mm Glass Filtration Set	167200-06
	300 m	nl Glass filter holder	167120-31
2 3 4	1 2 3	Glass funnel, 300 ml Aluminum clamp Sintered glass support base ( Including No.8 silicone stopper )	167210-03 167240-01 167230-03
5	4 5	Receiver flask, 1000 ml ( with screwthread connector ) Silicone fixing sucker	167250-03 167200-45
	VF 7, 4	47 mm Glass Filtration Set	167200-07
	_	47 mm Glass Filtration Set nl Glass filter holder	167200-07 167120-33
6	_		
6	300 m 1 2 3 4	nl Glass filter holder Glass funnel, 300 ml Aluminum clamp SS support screen PTFE gasket Glass support base	167120-33 167210-03 167240-01 167230-31 167230-41

VF 3

VF 10

## 47 mm, 90 mm Glass Filtration **Apparatus**

**Features** 

corrosive liquid.

**Applications** 

HPLC and GC analysis.

**Specifications** 

Membrane support

Material

Funnel

Clamp

Support base

Receiver flask

Specifications

Funnel capacity

Flask capacity

Filter diameter

Hose barb

Effective filtration area

> The screwthread connector helps remove the silicone tube quickly.

Purification of organic, corrosive liquid such as solvent (mobile phase) for

VF 3

Borosilicate glass

Borosilicate glass

Borosilicate glass

5/16 inch (8 mm)

Sintered glass

Aluminum

300 ml

1000 ml

47 mm

9.6 cm<sup>2</sup>

> The silicone fixing sucker prevents the receiver flask from tipping over accidentally. > The filter holder and flask, connected by sintered glass, have better resistance of



## 47 mm, 90 mm Glass Filtration **Apparatus**



#### Features

- Applications

Purification of organic, corrosive liquid such as solvent (mobile phase) for HPLC and GC analysis.

#### **Specifications**

Material

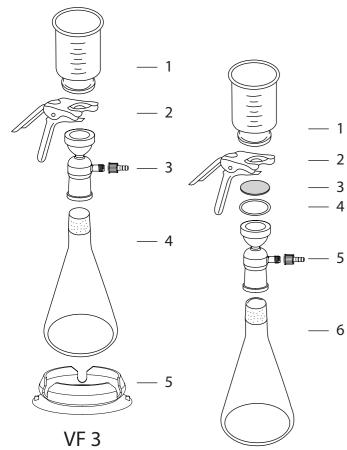
Funnel

Support base



Membrane support Clamp Filtration Adaptor Storage Bottle Specifications

Funnel capacity Flask capacity Filter diameter Effective filtration are Hose barb



VF	1	0

**Ordering Information** 

VF 3,	47 mm Glass Filtration Set	167200-03
300 n	nl Glass filter holder	167120-30
1 2 3	Glass funnel, 300 ml Aluminum clamp Sintered glass support base w/ tubulated cap ( with screwthread connector )	167210-03 167240-01 167230-01
4 5	Ground joint flask, 1000 ml Silicone fixing sucker	167250-01 167200-45

VF 10

Borosilicate glass

Borosilicate glass

Aluminum

1000 ml

4000 ml

90 mm

40.6 cm<sup>2</sup>

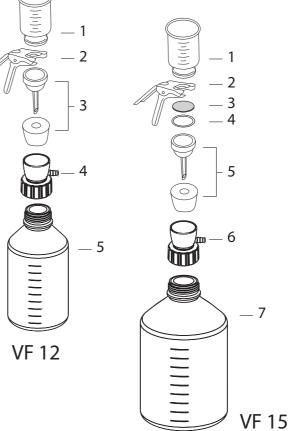
5/16 inch (8 mm)

Metal coating PTFE

Borosilicate glass

VF 10, 90 mm Glass Filtration Set 167200-10			
1000 ml Glass filter holder		167120-35	
1	Glass funnel, 1000 ml	167210-10	
2	Aluminum clamp	167240-02	
3	PTFE coating support screen	167230-33	
4	PTFE gasket	167230-43	
5	Glass support	167230-09	
	base w/ tubulated cap		
	(with screwthread connector)		
6	Ground joint flask, 4000 ml	167250-06	





**R**OCKER

**ROCKER** 





> Unique filtration adaptor design can be connected with GL45 storage bottle. > VF 12 / VF 15 can filtrate and store solution directly in GL45 storage bottle without the need of being transferred from the filtering flask.

	VF 12	VF 15
	Borosilicate glass Borosilicate glass Sintered glass Aluminum PP (Autoclavable) Borosilicate glass	Borosilicate glass Borosilicate glass Metal coating PTFE Aluminum PP (Autoclavable) Borosilicate glass
еа	300 ml 1000 ml 47 mm 9.6 cm <sup>2</sup> 5/16 inch (8 mm)	1000ml 5000 ml 90 mm 40.6 cm <sup>2</sup> 5/16 inch (8 mm)

VF 12, 47 mm Glass Filtration Set 167200-12			
300 n	167120-31		
1 2 3	Glass funnel, 300 ml Aluminum clamp Sintered glass support base ( Including No.8 silicone stopper )	167210-03 167240-01 167230-03	
4 5	Filtration Adaptor for GL45 Bottle 1000ml laboratory glass bottle	197000-65 197000-59	
VF 15, 90 mm Glass Filtration Set 167200-15			
1000	ml Glass filter holder	167120-37	
1 2 3 4 5	Glass funnel, 1000 ml Aluminum clamp PTFE coating support screen PTFE gasket Glass support base ( Including No.8 silicone stopper )	167210-10 167240-02 167230-33 167230-43 167230-10	
6 7	Filtration Adaptor for GL45 Bottle 5000ml laboratory glass bottle	197000-65 197000-55	

