

FILTRATION







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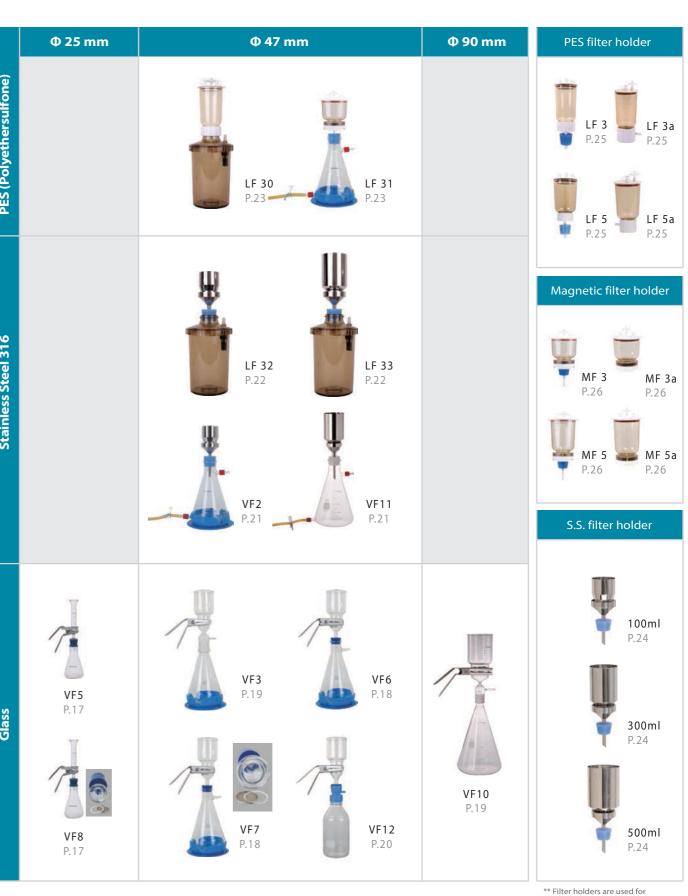
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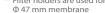
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MRC.9.16



Filtration Set Selection Guide







25 mm Glass Microanalysis Filtration Sets



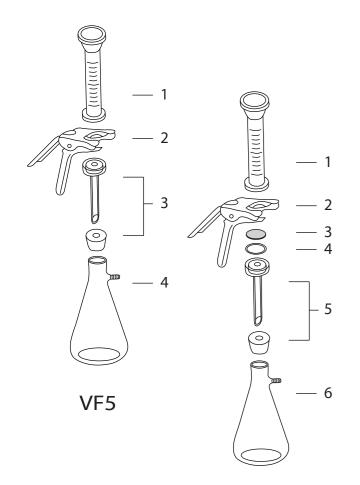


Applications

Ideal for small volume vacuum filtration for biological or particulate contamination analysis.

Specifications

Material	VF5	VF8
Filter funnel	Borosilicate glass	Borosilicate glass
Funnel support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	S.S. screen with PTFE seal
Clamp	Anodized aluminum	Anodized aluminum
Stopper	Silicone rubber (No.5)	Silicone rubber (No.5)
Receiver flask	Borosilicate glass	Borosilicate glass
Specifications		
Funnel capacity	15 ml	15 ml
Flask capacity	125 ml	125 ml
Filter diameter	25 mm	25 mm
Effective filtration area	2.2 cm ²	2.2 cm ²
Port thread (I.D. tubing)	5/16 inch (8 mm)	5/16 inch (8 mm)



Ordering Information

VF5, 2	25mm Glass Microanalysis Filtration Set	167200-05		
15 ml (1+2-	l Glass filter holder +3)	167120-32		
1	Glass funnel, 15 ml	167220-15		
2	Anodized aluminum clamp	167240-05		
3	Glass support base	167230-04		
	(Including No.5 silicone stopper)			
4	Receiver flask, 125 ml	167250-05		
VF8, 2	VF8, 25 mm Glass Microanalysis Filtration Set 167200-08			
	l Glass filter holder +3+4+5)	167120-34		
	. 0.000	167120-34 167220-15		
(1+2-	+3+4+5)			
(1+2-	+3+4+5) Glass funnel, 15 ml	167220-15		
1 2	+3+4+5) Glass funnel, 15 ml Anodized aluminum clamp	167220-15 167240-05		
1 2 3	+3+4+5) Glass funnel, 15 ml Anodized aluminum clamp Stainless steel support screen	167220-15 167240-05 167230-32		
(1+2+ 1 2 3 4	+3+4+5) Glass funnel, 15 ml Anodized aluminum clamp Stainless steel support screen PTFE gasket	167220-15 167240-05 167230-32 167230-42		

47 mm Glass Filtration Sets



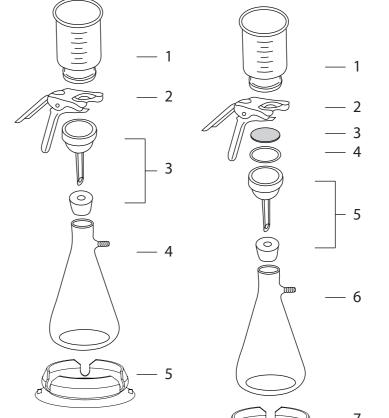


Applications

Ideal for solvent purification and general filtration for microbiology, suspended solid analysis etc.

Specifications

Material	VF6	VF7
Filter funnel	Borosilicate glass	Borosilicate glass
Funnel support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	S.S. screen with PTFE seal
Clamp	Anodized aluminum	Anodized aluminum
Stopper	Silicone rubber (No.8)	Silicone rubber (No.8)
Receiver flask	Borosilicate glass	Borosilicate glass
Specifications		
Funnel capacity	300 ml	300 ml
Flask capacity	1000 ml	1000 ml
Filter diameter	47 mm	47 mm
Effective filtration area	9.6 cm ²	9.6 cm ²
Port thread (I.D. tubing)	5/16 inch (8 mm)	5/16 inch (8 mm)



Ordering Information

VF6, 4	47 mm Glass Filtration Set	167200-06
300 n (1+2+	nl Glass filter holder +3)	167120-31
1	Glass funnel, 15 ml	167210-03
2	Anodized aluminum clamp	167240-01
3	Glass support base	167230-03
	(Including No.8 silicone stopper)	
4	Receiver flask, 1000 ml	167250-03
5	Silicone fixing sucker	167200-45

VF7, 4	7 mm Glass Filtration Set	167200-07	
300 ml Glass filter holder 167120-33 (1+2+3+4+5)			
1	Glass funnel, 300 ml	167210-03	
2	Anodized aluminum clamp	167240-01	
3	Stainless steel support screen	167230-31	
4	PTFE gasket	167230-41	
5	Glass support base	167230-07	
	(Including No.8 silicone stopper)		
6	Receiver flask, 1000 ml	167250-03	
7	Silicone fixing sucker	167200-45	





VF8

47 mm, 90 mm Glass Filtration Sets



Laboratory Filtration / Filtration Glass Set

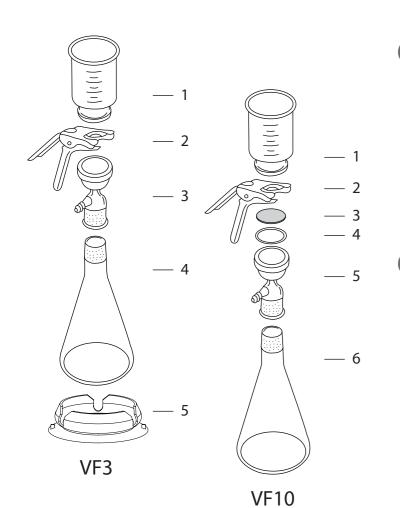


Applications

Ideal for the purification of organic, corrosive liquid such as solvent (mobile phase) for HPLC analysis .

Specifications

Material	VF3	VF10
Filter funnel	Borosilicate glass	Borosilicate glass
Funnel support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	S.S. screen with PTFE seal
Clamp	Anodized aluminum	Anodized aluminum
Receiver flask	Borosilicate glass	Borosilicate glass
Specifications		
Funnel capacity	300 ml	1000 ml
Flask capacity	1000 ml	4000 ml
Filter diameter	47 mm	90 mm
Effective filtration area	9.6 cm ²	40.6 cm ²
Port thread (I.D. tubing)	5/16 inch (8 mm)	5/16 inch (8 mm)



Ordering Information

VF3,	47 mm Glass Filtration Set	167200-03
300 n (1+2-	nl Glass filter holder +3)	167120-30
1 2 3	Glass funnel, 300 ml Anodized aluminum clamp Glass support base & tubulated cap	167210-03 167240-01 167230-01
4 5	Ground joint flask, 1000 ml Silicone fixing sucker	167250-01 167200-45

VF10,	90 mm Glass Filtration Set	167200-10
1000 ml Glass filter holder (1+2+3+4+5)		167120-35
1	Glass funnel, 1000 ml	167210-10
2	Anodized aluminum clamp	167240-02
3	PTFE coating support screen	167230-33
4	PTFE gasket	167230-43
5	Glass support base & tubulated cap	167230-09
6	Ground joint flask, 4000 ml	167250-06

47 mm Glass Filtration Sets





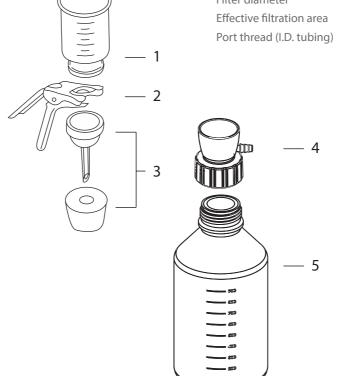
Features

- ♦ Unique filtration adaptor design can connect with GL45 storage bottle.
- VF12 can filtrate and store solution directly in GL45 storage bottle without the need of being transferred from the filtering flask.

Applications

Ideal for the purification of organic, corrosive liquid such as solvent (mobile phase) for HPLC analysis.

Material	VF12	
Filter funnel	Borosilicate glass	
Funnel support base	Borosilicate glass	
Membrane support	Borosilicate glass	
Clamp	Anodized aluminum	
Filtration Adaptor	PP (Autoclavable)	
Storage Bottle	Borosilicate glass	
Specifications		
Funnel capacity	300 ml	
Flask capacity	1000 ml	
Filter diameter	47 mm	
Effective filtration area	9.6 cm ²	
Port thread (I.D. tubing)	5/16 inch (8 mm)	



Ordering Information

VF12,	47 mm Glass Filtration Set	167200-12
300 ml Glass filter holder (1+2+3)		167120-31
1	Glass funnel, 300 ml	167210-03
2	Anodized aluminum clamp	167240-01
3	Glass support base	167230-03
	(Including No.8 silicone stopper)	
4	Filtration Adaptor	197000-65
5	1000ml Storage Bottle	197000-59







47 mm Stainless Steel Filtration Sets Internation Sets In





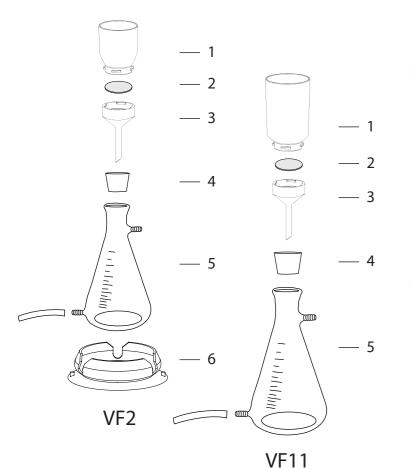


Applications

For filtration requiring the sterilization such as microbiology test or use for purification of corrosive liquid, solvent etc.

Specifications

Material	VF2	VF11
Filter funnel	SUS316	SUS316
Funnel support base	SUS316	SUS316
Membrane support	SUS316	SUS316
Stopper	Silicone rubber (No.16)	Silicone rubber (No.18)
Receiver flask	Borosilicate glass	Borosilicate glass
Drain hose	Rubber (non-autoclavable)	Rubber (non-autoclavable)
Specifications		
Funnel capacity	100 ml	500 ml
Flask capacity	1000 ml	2000 ml
Filter diameter	47 mm	47 mm
Effective filtration area	9.6 cm ²	9.6 cm ²
Port thread (I.D. tubing)	5/16 inch (8 mm)	5/16 inch (8 mm)



Ordering Information

VF2,	47 mm Stainless Steel Filtration Set	167200-02
100 n (1+2+	167103-10	
1	Stainless steel funnel, 100 ml	167103-61
2	Stainless steel support screen	167100-31
3	Stainless steel support base	167103-60
4	Silicone stopper (No.16)	167110-17
5	Receiver flask with drain, 1000 ml	167300-08
6	Silicone fixing sucker	167200-45
VF11,	47 mm Stainless Steel Filtration Set	167200-11
500 n (1+2+	nl Stainless steel filter holder +3+4)	167103-50
1	Stainless steel funnel, 500 ml	167103-65
2	Stainless steel support screen	167100-31
3	Stainless steel support base	167103-60
4	Silicone stopper (No.18)	167110-18
5	Receiver flask with drain, 2000 ml	167200-13

47 mm Stainless Steel Filtration Sets







LF 32

Features

- Spin-lock connection facilitates fast and stable installation without clamp.
- > Stainless steel funnel offers excellent chemical resistance and can be fastly sterilized by flame.
- > Built-in overflow protection to keep the filtrate from overflowing when waste bottle is full.

Specifications

Material	LF 32	LF 33	
Filter funnel	SUS316	SUS316	
Funnel support base	SUS316	SUS316	
Membrane support	SUS316	SUS316	
Waste bottle	PC	PC	
Specifications			
Funnel capacity	100 ml	300 ml	
Flask capacity	1200 ml	1200 ml	
Filter diameter	47 mm / 50 mm	47 mm / 50 mm	
Effective filtration area	9.6 cm ²	9.6 cm ²	
Port thread (I.D. tubing)	5/16 inch (8 mm)	5/16 inch (8 mm)	
Funnel graduation	50 ml / 100ml	100 ml / 300ml	

Ordering Information

			LF 32,	47 mm Stainless Steel Filtration S	set 197010-32
I			100 m (1+2+	nl Stainless steel filter holder 3+4)	167103-10
3		— 1 — 2	1 2 3 4 PC wa (5+6+	Stainless steel funnel, 100 ml Stainless steel support screen Stainless steel support base Silicone stopper (No.16) siste bottle with cover, 1200 ml 17+8)	167103-61 167100-31 167103-60 167110-17 197000-11-PC
+ 5 5		— 3 — 4 — 5	5 6 7 8	Black PP cap PC cover Overflow protection PC bottle, 1200 ml 47 mm Stainless Steel Filtration S	197000-40 197000-32-PC 197000-39 197000-31-PC Set 197010-33
			Jo		15701033
		— 6 — 7		nl Stainless steel filter holder	167103-30
3	-1200 -1100 -1000 -1000 -2000	678	300 m	nl Stainless steel filter holder	
3		ŕ	300 m (1+2+ 1 2 3 4	Stainless steel filter holder 3+4) Stainless steel funnel, 300 ml Stainless steel support screen Stainless steel support base Silicone stopper (No.16) aste bottle with cover, 1200 ml	167103-30 167103-63 167100-31 167103-60



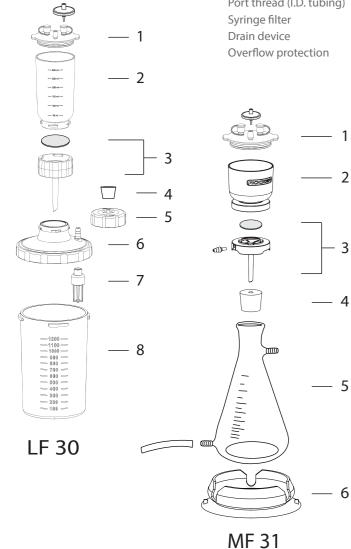


47 mm Filtration Sets









Features

- > LF 30 spin-lock connection facilitates fast and stable installation without clamp.
- → MF 31 strong magnetic seal allows one-handed operation
- > Excellent smash, high temperature resistance and autoclavable.
- > Funnel graduated in 50ml, receiver in 100ml increments for easy measurement.

Specifications

Material	LF 30	MF 31
Filter funnel	PES	PES
Funnel support base	PC	PES
Membrane support	PP	PES
Syringe filter	PTFE	PTFE
Receiver flask	PC	Borosilicate glass
Drain hose	_	Rubber (non-autoclavable)
Specifications		
Funnel capacity	300 ml	300 ml
Flask capacity	1200 ml	1000 ml
Filter diameter	47 mm / 50 mm	47 mm / 50 mm
Effective filtration area	12.5 cm ²	13.1 cm ²
Port thread (I.D. tubing)	5/16 inch (8 mm)	5/16 inch (8 mm)
Syringe filter	25 mm, 0.2 μm	4-8 mm
Drain device	_	Yes

Ordering Information

LF 30	, 47 mm Filtration Set	197010-30
	PES filter holder (300 ml) -3+4)	197000-01
1 2 3 4	PP lid kit PES funnel, 300 ml PC support base Silicone stopper (No.16)	197000-36 197000-34 197000-35 167110-17
PC wa (5+6-	aste bottle with cover, 1200 ml +7+8)	197000-11-PC
5 6 7 8	Black PP cap PC cover Overflow protection PC bottle, 1200 ml	197000-40 197000-32-PC 197000-39 197000-31-PC
MF 3	1, 47 mm Filtration Set	200320-31
MF 3,	Magnetic filter holder (300ml) +3+4)	200300-01
1 2 3 4	PP lid kit for Magnetic funnel PES magnetic funnel, 300ml PES support base Silicone stopper (No.16)	200300-36 200300-30 200300-32 167110-17
5	Receiver flask with drain, 1000 m Silicone fixing sucker	l 167300-08 167200-45

47 mm Stainless Steel Filter Holder







100ml

Features

— 1

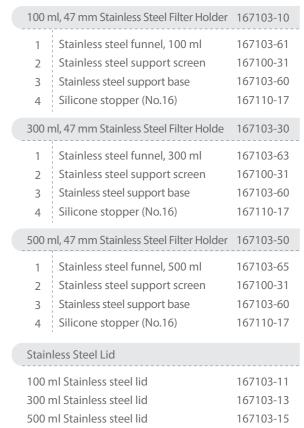
300ml

- > Spin-lock connection facilitates fast and stable installation without clamp.
- > Stainless steel funnel offers excellent chemical resistance and can be fastly sterilized by flame.

Specifications

Material	167103-10	167103-30	167103-50
Filter funnel	SUS316	SUS316	SUS316
Funnel support base	SUS316	SUS316	SUS316
Membrane support	SUS316	SUS316	SUS316
Funnel lid	SUS316	SUS316	SUS316
Specifications			
Funnel capacity	100 ml	300 ml	500 ml
Filter diameter	47 mm / 50 mm	47 mm / 50 mm	47 mm / 50 mm
Effective filtration area	9.6 cm ²	9.6 cm ²	9.6 cm ²

Ordering Information







500ml

— 3

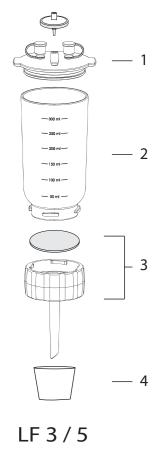
47 mm PES Filter Holder

(Polyethersulfone)





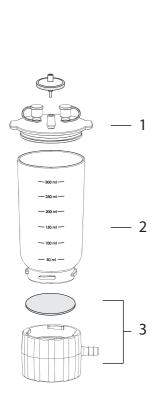




- > Spin-lock connection facilitates fast and stable installation without clamp.
- ◆ PES structure offers excellent smash, high temperature (180°C) resistance and autoclavable.
- Reusable, friendly to the earth and save your money.
- Funnel graduated in 50ml increments for easy measurement.
- ◆ LF 3/5 equips with No.16 stopper that allows it to fit other receiver flasks.
- → LF 3a/5a is available to fit different tissue bottle.

Specifications

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 / 50 mm	47 mm / 50 mm	
12.5 cm ²	12.5 cm ²	
25 mm, 0.2 μm	25 mm, 0.2 μm	
7 mm	7 mm	
	PES PC PP PP Silicone PTFE 300 ml / 500 ml 47 mm / 50 mm 12.5 cm² 25 mm, 0.2 μm	



LF 3a / 5a

Ordering Information

LF	LF 3, 47 mm PES Filter Holder (300ml) 197000-01					
LF	LF 5, 47 mm PES Filter Holder (500ml) 197000-06					
1	LF 3, PP lid kit	197000-36				
	LF 5, PP lid kit	200300-36				
2	PES funnel, 300 ml	197000-34				
	PES funnel, 500 ml	197000-56				
3	PC support base	197000-35				
4	Silicone stopper (No.16)	167110-17				
LF	LF 3a, 47 mm PES Filter Holder (300ml) 197000-02					
LF	LF 5a, 47 mm PES Filter Holder (500ml) 197000-0					
1	LF 3, PP lid kit	197000-36				
	LF 5, PP lid kit	200300-36				
2	LF 5, PP lid kit PES funnel, 300 ml	200300-36 197000-34				
2						
2	PES funnel, 300 ml	197000-34				

47 mm PES Magnetic Filter Holder (Polyethersulfone)









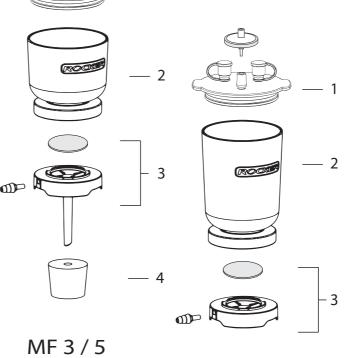
Features

- > Compatible with various kinds of bottle, vacuum flask with or without side arm to
- >> Strong magnetic seal allows one-handed operation, prevents possible twisting and tearing of the membrane. Membrane guide on the base helps position membrane easily.
- > PES (Polyether sulfone) construction, resistant to a wide range of chemicals and high temperature, sturdy and unbreakable.
- Withstands autoclave cycles (121℃, 20 minutes).
- MF magnetic filter holder was awarded the United States and Taiwan invention patent.

Specifications

Material	MF 3 / MF 5	MF 3a / MF 5a	
Filter funnel	PES	PES	
Funnel support base	PES	PES	
Membrane support	PES	PES	
Funnel lid	PP	PP	
Hose barb	PES	PES	
Syringe filter	PTFE	PTFE	
Specifications			
Funnel capacity	300 ml / 500 ml	300 ml / 500 ml	
Filter diameter	47 mm	47 mm	
Effective filtration area	13.1 cm ²	13.1 cm ²	
Syringe filter	25 mm, 0.2 μm	25 mm, 0.2 μm	
Lid inlet fitting diameter	4-8 mm	4-8 mm	





MF 3a / 5a

Ordering Information

MF 3,	47 mm PES Magnetic Filter Holder (300ml)	200300-01
MF 5,	47 mm PES Magnetic Filter Holder (500ml)	200500-01
1	PP lid kit for Magnetic funnel	200300-36
2	PES magnetic funnel, 300ml	200300-30
	PES magnetic funnel, 500ml	200500-30
3	PES support base	200300-32
4	Silicone stopper (No.16)	167110-17
	1	
MF 3a	a, 47 mm PES Magnetic Filter Holder (300ml)	200310-01
MF 5a	a, 47 mm PES Magnetic Filter Holder (500ml)	200510-01
1	PP lid kit for Magnetic funnel	200300-36
2	PES magnetic funnel, 300ml	200300-30
	PES magnetic funnel, 500ml	200500-30
	,,	





Vacuum Filtration System

Two-Year Warranty

Features

Compact and safe operation

Lafil 400 series is a unique filtration system by combining vacuum source with filtration ware. Its compact design can save much bench space than the traditional ones. With a fence-like platform design, it can prevent user's negligence from tipping over the waste bottle.

> The patented spin-lock design

The filter holder can be connected with waste bottle by patented spin-lock connection giving a fast and stable installation without clamp.

Overflow protection

Waste bottle comes with a built-in overflow protection to keep the filtrate from overflowing when waste bottle is full.

Autoclavable

Waste bottle and filter holder is made of engineering plastics which are shatterproof, high temperature resistance and autoclavable.

International safety certification
CE certification

Applications

- Filtration for microbiology test
- Suspended solid test
- Vacuum filtration

Ordering Information

197401-11(22)

Lafil 400 - LF 30, Vacuum Filtration System, AC110V, 60Hz (AC220V, 50Hz)

197402-11(22)

Lafil 400 - LF 32, Vacuum Filtration System, AC110V, 60Hz (AC220V, 50Hz)

197400-11(22)

27

Lafil 400, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)





Specification

Model	Lafil 400 - LF 30		Lafil 400 - LF 32	
Voltage	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power (W)	100	80	100	80
Max. current (A)	1.0	0.4	1.0	0.4
Max. vacuum	- 720 mmHg		- 720 mmHg	
Max. flow rate	25 l/min	22 l/min	25 l/min	22 l/min
Motor rotation	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Port thread	5/16 inch (8 mm)		5/16 inch (8 mm)	
Dimension (LxWxH)	33.5 x 23 x 45 cm		33.5 x 23 x 40 cm	
Part	Material		Material	
Filter funnel	PES (300 ml, 47 r	PES (300 ml, 47 mm / 50 mm)		47 mm / 50 mm)
Waste bottle	PC (1200 ml)	PC (1200 ml)		
Funnel support base	PP (for Φ47 mm / Φ5	50 mm membrane)	SUS316 (for Φ47 mi	m / Φ50 mm membrane)
Funnel lid	PP (Containing PTFE 25 mm, 0.2 μm	syringe filter,)	-	
Overflow protection	PP		PP	

Vacuum Filtration System

Two-Year Warranty

Features

Compact and safe operation

Lafil 400 series is a unique filtration system by combining vacuum source with filtration ware. Its compact design can save much bench space than the traditional ones. With a fence-like platform design, it can prevent user's negligence from tipping over the waste bottle.

> The patented spin-lock design

The filter holder can be connected with waste bottle by patented spin-lock connection giving a fast and stable installation without clamp.

Autoclavable

LF 5a is made of engineering plastics which shatterproof, high temperature resistance and autoclavable.

International safety certification CE certification

Applications

- Sample pretreatment
- Medium and buffer purification
- Vacuum filtration

Ordering Information

197404-11(22)

Lafil 400 - LF 5a - 500, Vacuum Filtration System, AC110V, 60Hz (AC220V, 50Hz)

197400-11(22)

Lafil 400, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

ROU-1152-RLS

Autofil, 500ml Disposable Funnel, 24PK

ROU-1153-RLS

Autofil, 1000ml Disposable Funnel, 24PK





Model	Lafil 400 - LF 5a - 500		
Voltage	110V/60Hz	220V/50Hz	
Max. power (W)	100	80	
Max. current (A)	1.0	0.4	
Max. vacuum	- 720 mmHg	- 720 mmHg	
Max. flow rate	25 l/min	22 l/min	
Motor rotation	1750 RPM	1450 RPM	
Port thread	5/16 inch (8 mm)		
Dimension (LxWxH)	33.5 x 23 x 43 cm		
Part	Material	Material	
Filter funnel	PES (500ml)	PE (500ml, 1000ml)	
Storage bottle	Borosilicate glass (500 ml)	Borosilicate glass (500 ml, *1000 ml)	
Funnel support base	PP (for Φ47 mm / Φ50 mm membrane)	_	
Membrane filter	_	PES (0.22 μm, Φ90 mm)	
Funnel lid	PP	PE	

^{* 1000}ml tissue bottle is optional



Vacuum Filtration System

Two-Year Warranty

Features

No air pollution, maintenance free

VP series pumps are piston-driven, no need of lubricant, regular oil changes and maintenance; with no oil pollution.

The patented spin-lock design

VP-17 - LF 30 filter holder can be connected with waste bottle by patented spin-lock connection giving a fast and stable installation without clamp.

> The patented magnetic design

VP-17 - MF 31 strong magnetic seal allows one-handed operation, prevents possible twisting and tearing of the membrane.

Overflow protection

VP-17 - LF 30 waste bottle comes with a built-in overflow protection to keep the filtrate from overflowing when waste bottle is full.

Applications

- Air sampling
- Suspended solid test
- Vacuum Filtration

Ordering Information

167305-11(22)

VP-17 - LF 30, Vacuum Filtration System, complete set includes :

- * VP-17, Vacuum Pump
- * LF 30, Filtration Set
- * Silicone Tube (1m)

167311-11(22)

VP-17 - MF 31, Vacuum Filtration System, complete set includes :

- * VP-17, Vacuum Pump
- * MF 31, Filtration Set
- * Silicone Tube (1m)





Specification

Model	VP-17 - LF 30		VP-17-MF31		
Voltage	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	
Max. flow rate	23 l/min	20 l/min	23 l/min	20 l/min	
Max. vacuum	- 680 mmHg		- 680 mmHg		
Capacity (Funnel / Waste bottle)	300 ml / 1200 ml		300 ml / 1000 ml		
Filter diameter	47 mm / 50 mm		47 mm / 50 mm		
Effective filtration area	12.5 cm ²	12.5 cm ²		13.1 cm ²	
Port thread	5/16 inch (8 mm)		5/16 inch (8 mm)		
Part	Material		Material		
Filter funnel	PES		PES		
Funnel support base	PC	PC		PES	
Membrane support	PP	PP		PES	
Waste bottle	PC		Borosilicate glass		
Funnel lid	PP		PP		
Overflow protection	PP		-		

Vacuum Filtration System

Features

No air pollution, maintenance free

VP series pumps are piston-driven, no need of lubricant, regular oil changes and maintenance; with no oil pollution.

Save Time

VF 12 can filtrate and store solution directly in GL45 storage bottle without the need of being transferred from the filtering flask.

Suitable for all GL45 storage bottle

Unique filtration adaptor design can connect with GL45 storage bottle (1000ml, 2000ml, 5000ml...etc.)

Applications

Ideal for the purification of organic, corrosive liquid such as solvent (mobile phase) for HPLC analysis.

Ordering Information

189302-11(22)

VP-17C - VF 12, Vacuum Filtration System, complete set includes :

- * VP-17C, Vacuum Pump
- * VF 12, Filtration Set
- * Silicone Tube (1m)

169302-11(22)

CVP-14 - VF 12, Vacuum Filtration System, complete set includes :

- * CVP-14, Vacuum Pump
- * VF 12, Filtration Set
- * Silicone Tube (1m)





Model	VP-17C - VF12		CVP-14 - VF12	
Voltage	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. flow rate	23 l/min	20 l/min	20 l/min	18 l/min -
Max. vacuum	- 630 mmHg		670 mmHg	
Capacity (Funnel / Waste bottle)	300 ml / 1000 ml		300 ml / 1000 ml	
Filter diameter	47 mm		47 mm	
Effective filtration area	9.6 cm ²		9.6 cm ²	
Port thread	5/16 inch (8 mm)		5/16 inch (8 mm)	
Part	Material		Material	
Filter funnel	Borosilicate glass		Borosilicate glass	
Funnel support base	Borosilicate glass		Borosilicate glass	
Membrane support	Borosilicate glass		Borosilicate glass	
Clamp	Anodized aluminum		Anodized aluminum	
Filtration Adaptor	PP		PP	
Storage Bottle	Borosilicate glass		Borosilicate glass	





Multi-Branch Manifold

Features

The whole set is made of SUS316 All parts of BioVac 330, 320 manifold are made of SUS316.

Adjustable vent valve design The adjustable vent valve design can avoid "Water Hammer" and help to drain residual liquid off the tube.

Individual control valve Each branch permits individual control.

The patented spin-lock design BioVac 330 manifold uses a patented spin-lock connection which allows for fast and stable installation without clamp.

Compatible with different sizes of funnels BioVac 330 manifold is available for MRC standard 100, 300, 500ml funnel at option.



* MRC standard S.S. funnels

* MRC magnetic filter holder

Applications

- > Filtration for microbiology test
- Chemistry Experiments
- General laboratory filtration

Ordering Information

167103-23 BioVac 330, 3 Places Stainless Steel Manifold (without S.S. funnel) **167110-23** BioVac 320, 3 Places Stainless

167110-23 BioVac 320, 3 Places Stainless Steel Manifold

167103-61 100ml Stainless Steel Funnel **167103-63** 300ml Stainless Steel Funnel

167103-65 500ml Stainless Steel Funnel

200300-01 MF 3, 300ml Magnetic filter holder with lid kit

200500-01 MF 5, 500ml Magnetic filter holder with lid kit







Adjustable vent valve

BioVac 320

Specification

Model	BioVac 330	BioVac 320	
Number of branch	3	3	
Filter diameter	47 mm / 50 mm	Optional	
Funnel capacity	100 ml / 300 ml / 500 ml	Optional	
Effective filtration area	9.6 cm ²	Optional	
Port thread	5/16 inch (8 mm)	5/16 inch (8 mm)	
Dimension (LxWxH)	44.5 x 12.9 x 12.5 cm	44.5 x 12.9 x 15 cm	
Part	Material	Material	
Body	SUS316	SUS316	
Control valve	SUS316	SUS316	
Funnel support base	SUS316	SUS316	
Handle	SUS316	SUS316	
Connector	SUS316	SUS316	

Vacuum Filtration System

Two-Year Warranty

Features

and filter.

Special design for microbiology filtration BioVac 330B is designed for a large number of samples filtration in microbiology test. The complete system includes vacuum pump, manifold, burner, waste bottle

◆ The manifold is made of SUS316 All parts of manifold are made of SUS316 which offer excellent chemical resistance and can be fast sterilized by flame, steam and oven etc. .

The patented spin-lock design The manifold uses a patented spin-lock connection which allows for fast and stable installation without clamp.

❖ 4 liter PP waste bottle with drain The large capacity of 4000ml waste bottle with drain offers convenience of collecting and draining waste solution.

❖ Adjustable vent valve design The adjustable vent valve design can avoid "Water Hammer" and help to drain residual liquid off the tube.

Applications

- Filtration for microbiology test
- Chemical experiment
- General laboratory filtration

Ordering Information

167403-11(22)

BioVac 330B, Vacuum Filtration System, complete set includes:

- * VP-34, Oil Free Vacuum Pump
- * BioVac 331, 3 Places Stainless Steel Manifold Set
- * 4000 ml PP Waste Bottle with drain
- * Dragon 100, Torch Burner
- * MCE Membrane, 47 mm, 0.45 µm, 200/PK





The adjustable vent valve design can avoid "Water Hammer" and help to drain residual liquid off the tube.

Specification

Model	BioVac 330B		
Voltage	110V/60Hz	220V/50Hz	
Max. flow rate	37 l/min	34 l/min	
Max. vacuum	- 680 mmHg		
Waste bottle	4000 ml, made of PP with drain		
Number of branch	3		
Filter diameter	47mm / 50mm		
Funnel capacity	100ml		
Effective filtration area	9.6 cm ²		
Port thread	5/16 inch (8 mm)		
Manifold Part	Material		
Body	SUS316		
Control valve	SUS316		
Filter funnel	SUS316		
Funnel support base	SUS316		
Connector	SUS316		





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Alumium Multi-Branch Manifold

Features

> Light and handy aluminum design

All parts of MultiVac 310-MS are made of anodized aluminum which is light, cost-effective and autoclavable.

Quick-Fit hose barb

Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.

Individual control valve Each branch permits individual control.

> Compatible with different sizes of filter holders

MultiVac 310-MS manifold include no.8 silicone stoppers which can accept various types of filter holders at option.

Applications

- Filtration for suspended solid test
- Filtration for microbiology test
- General laboratory filtration

Ordering Information

180310-01

MultiVac 310-MS, 3 Places Aluminum Manifold with No. 8 stopper x 3





The tubing to the vacuum source can be connected to the other side of manifold.

Specification

Model	MultiVac 310-MS
Number of branch	3
Filter diameter	Optional
Funnel capacity	Optional
Effective filtration area	Optional
Port thread	5/16 inch (8 mm)
Dimension (LxWxH)	47 x 13 x 16 cm
Part	Material
Body	Anodized aluminum
Control valve	Anodized aluminum
Handle	Anodized aluminum
Hose barb	Anodized aluminum

Vacuum Filtration System

Two-Year Warranty

Features

> Special design for large number samples

MultiVac 310-MS-T is an economical model for large sample filtration. This system includes vacuum pump, manifold, waste bottle and filter holders.

Light and handy aluminum design

The manifold is made of anodized aluminum which is autoclavable, light and cost-effective.

Magnetic filter holder is included

Magnetic filter holder allows for one-handed operation, and can prevent the membrane from being twisted or torn.

4 liter PP waste bottle with drain

The large capacity of 4000ml waste bottle with drain offers convenience of collecting and draining waste solution.

Applications

- Filtration for suspended solid test
- Filtration for microbiology test
- General laboratory filtration

Ordering Information

180311-11(22)-T

MultiVac 310-MS-T Vacuum Filtration System, complete set includes:

- * VP-34, Oil Free Vacuum Pump
- * MultiVac 310-MS, 3 Places Aluminum Manifold
- * MF 3, 300ml Magnetic filter holder with lid kid (3 pcs)
- * 4000 ml PP Waste Bottle with drain



Specification

Model	MultiVac 310-MS-T		
Voltage	110V/60Hz 220V/50Hz		
Max. flow rate	37 l/min	34 l/min	
Max. vacuum	- 680 mmHg		
Waste bottle	4000 ml, made of PP with drain		
Number of branch	3		
Filter diameter	47mm		
Funnel capacity	300ml		
Effective filtration area	13.1 cm ²		
Port thread	5/16 inch (8 mm)		
Manifold Part	Material		
Body	Anodized aluminum		
Control valve	Anodized aluminum		
Handle	Anodized aluminum		
Hose barb	Anodized aluminum		





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Stainless Steel Spin-Lock Design Multi-Branch Manifold

Features

Quick-assembly and disassembly

Each component can be removed easily by hand for cleaning and autoclaving to prevent biofilms and eliminate sources of contamination

Convertible funnel adaptor

Convertible funnel adaptor design allows user to fit the desired funnel (reusable or disposable) easily.

> Innovative vent valve design

An adjustable vent valve integrated with the pipe can eliminate water hammer phenomenon and help drain out residual waste water

Quick-Fit hose barb

Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.

> Individual control valve

Each branch permits individual control.

Compatible with different sizes of funnels MultiVac 300-MB / 600-MB manifolds can

accept VP standard S.S. 100, 300, 500ml funnel at option.

Applications

- Filtration for microbiology test
- Chemical experiment
- General laboratory filtration

Ordering Information

180300-02

MultiVac 300-MB, 3 Places S.S. Manifold with MRC S.S. funnel adaptor

180600-02

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MultiVac 600-MB, 6 Places S.S. Manifold with MRC S.S. funnel adaptor

167103-61 100ml S.S. filter funnel

167103-63 300ml S.S. filter funnel

167103-65 500ml S.S. filter funnel





Specification

Model	MultiVac 300-MB	MultiVac 600-MB	
Number of branch	3	6	
Filter diameter	47 mm / 50 mm	47 mm / 50 mm	
Funnel capacity	100 ml / 300 ml / 500 ml	100 ml / 300 ml / 500 ml	
Effective filtration area	9.6 cm ²	9.6 cm ²	
Port thread	5/16 inch (8 mm)	5/16 inch (8 mm)	
Dimension (LxWxH)	48 x 13 x 11 cm	85 x 13 x 11 cm	
Part	Material	Material	
Body	SUS316	SUS316	
Control valve	Anodized aluminum	Anodized aluminum	
Funnel support base	SUS316	SUS316	
Membrane support	SUS316	SUS316	
Handle	Anodized aluminum	Anodized aluminum	
Connector	SUS316	SUS316	

Stainless Steel Multi-Branch Manifold

Features

Quick-assembly and disassembly

Each component can be removed easily by hand for cleaning and autoclaving to prevent biofilms and eliminates sources of contamination.

Convertible funnel adaptor

Convertible funnel adaptor design allows user to fit the desired funnel (reusable or disposable) easily.

Innovative vent valve design

An adjustable vent valve integrated with the pipe can eliminate water hammer phenomenon and help drain out residual waste water.

Ouick-Fit hose barb

Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.

> Individual control valve

Each branch permits individual control.

Applications

- Filtration for microbiology test
- Chemical experiment
- General laboratory filtration

Ordering Information

180300-01

MultiVac 300-MS, 3 Places S.S. Manifold with No. 8 stopper funnel adaptor

180600-01

MultiVac 600-MS, 6 Places S.S. Manifold with No. 8 stopper funnel adaptor

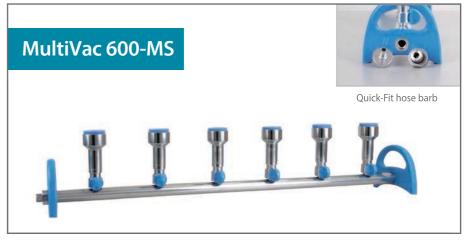
200300-01 MF 3, 300ml Magnetic filter holder with lid kit

200500-01 MF 5, 500ml Magnetic filter holder with lid kit

167110-16

No.8 ilicone stopper





Model	MultiVac 300-MS	MultiVac 600-MS	
Number of branch	3	6	
Filter diameter	Optional	Optional	
Funnel capacity	Optional	Optional	
Effective filtration area	Optional	Optional	
Port thread	5/16 inch (8 mm)	5/16 inch (8 mm)	
Dimension (LxWxH)	48 x 13 x 16 cm	85 x 13 x 16 cm	
Part	Material	Material	
Body	SUS316	SUS316	
Control valve	Anodized aluminum	Anodized aluminum	
Funnel support base	SUS316	SUS316	
Handle	Anodized aluminum	Anodized aluminum	
Connector	SUS316	SUS316	





Vacuum Filtration / MultiVac Stainless Steel Manifold

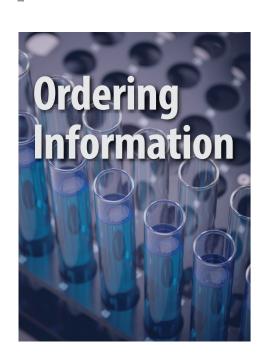
Specification

Model	MultiVac 300 - MB	MultiVac 600 -MB	
Number of branch	3	6	
Effective filtration area	47 mm / 50 mm	47 mm / 50 mm	
Port thread	5/16 inch (8 mm)	5/16 inch (8 mm)	
Dimension(L×W×H)	48 cm x 13 cm x H (depend on funnel adaptor)	85 cm x 13 cm x H (depend on funnel adaptor)	
Autoclaving conditions	121°C for 30 min		

Material	Part	
Stainless steel #316	Pipe ` Control valve ` Vent valve ` Hose barb	
Aluminum	Handles \ Knob of control valve	
FKM	Seals of control valve \ Vent valve \ Hose barb	

200500-01

167120-31



Combination A	A
180300-02	MultiVac 300-MB, 3 Places S.S. Manifold with adaptor (for Rocker's S.S. funnel)
180600-02	MultiVac 600-MB, 6 Places S.S. Manifold with adaptor (for Rocker's S.S. funnel)
167103-61	Stainless steel funnel 100ml
167103-63	Stainless steel funnel 300ml
167103-65	Stainless steel funnel 500ml
167103-11	Stainless steel cover for 100ml funnel
167103-13	Stainless steel cover for 300ml funnel
167103-15	Stainless steel cover for 500ml funnel
Carabination I	
Combination I	
180300-01	MultiVac 300-MS, 3 Places S.S. manifold with daptor (for #8 silicone stopper)
180600-01	MultiVac 600-MS, 6 Places S.S. manifold with daptor (for #8 silicone stopper)
200300-01	MF3, Magnetic Filter Holder 300ml with lid kit

Combination C	
180300-00	MultiVac 300, 3 Places S.S. Manifold without adaptor
180600-00	MultiVac 600, 6 Places S.S. Manifold without adaptor
190100-73	Adaptor for Millipore MIACFD101 (100ml), MIACFD201 (250ml) plastic funnel
190100-74	Adaptor for Sartorius 16A07 (100ml) plastic funnel
190100-75	Adaptor for Pall 4870 (100ml), 4871 (250ml) plastic funnel

MF5, Magnetic Filter Holder 500ml with lid kit

Glass Filter Holder 300m



Introduction

MultiVac stainless steel manifold family is especially developed for microbiological tests in the pharmaceutical, food, beverage, and biotech industry.

"Flexibility" is the main concept of designing MultiVac manifold. The flexible filtration head design make funnel adaptor convertible and user can change funnel adaptor to fit to Rocker's stainless steel funnel or other major brands' disposable funnels easily.

Applications

- Microbiology test filtration in food, pharmaceutical, beverage industries
- Suspended Solid test filtration for municipal, surface, ground and drinking water
- General filtration for aqueous sample

Benefits:

Vacuum Filtration

Quick-assembly and disassembly

Each component can be removed easily by hand for cleaning and autoclaving to prevent biofilms and eliminates sources of contamination.

Convertible funnel adaptor

Convertible funnel adaptor design allows user to fit their desired funnel (reusable or disposable) easily.

Innovative vent valve design

An adjustable vent valve integrated with the pipe can eliminate water hammer phenomenon and help drain out residual waste water.

Quick-Fit hose barb

Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.

make filtration easy

How to order?

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





MultiVac 300-MB 3 Places Stainless Steel Manifold (180300-02)



MultiVac 600-MB 3 Places Stainless Steel Manifold (180600-02)





100ml Stainless steel 300ml Stainless steel 500ml Stainless steel



funnel (167103-61) funnel (167103-63)





Stainless steel cover Stainless steel cover for 100ml funnel for 300ml funnel (167103-11) (167103-13)



Stainless steel cover for 500ml funnel (167103-15)

funnel (167103-65)





MultiVac 300-MS 3 Places Stainless Steel Manifold (180300-01)



MultiVac 600-MS 3 Places Stainless Steel Manifold (180600-01)

Step 2. Choose the filter holder



MF 3, Magnetic filter holder (200300-01)



MF 5, Magnetic filter holder (200500-01)



Glass filter holder (167120-31)





MultiVac 300 3 Places Stainless Steel Manifold (180300-00)



MultiVac 600 6 Places Stainless Steel Manifol (180600-00)



Step 2. Choose the disposable funnel and adaptor



Sartorius, 100ml disposable plastic funnel (16A07)



Millipore,100ml / 250ml Microfil, disposable plastic funnel (MIACFD101 / MIACFD201)



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





Adaptor for Sartorius disposable plastic funnel (190100-74)



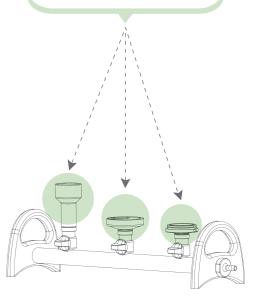
Adaptor for Millipore disposable plastic funnel (190100-73)



Adaptor for Pall disposable plastic funnel (190100-75)

Customized Design

We can offer customized adaptor for your funnel



Vacuum Filtration System

Two-Year Warranty

Features

> Special design for microbiology filtration

MultiVac 330-MB-T / 600-MB-T are designed for a large number of samples filtration in microbiology test. Each system includes vacuum pump, manifold, burner, waste bottle and filter.

> Innovative vent valve design

An adjustable vent valve integrated with the pipe can eliminate water hammer phenomenon and help drain out residual waste water.

Quick-Fit hose barb

Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.

Individual control valve

Each branch permits individual control.

Applications

- Filtration for microbiology test
- Chemical experiment
- General laboratory filtration

Ordering Information

180300-11-T (22-T)

MultiVac 300-MB-T, Vacuum Filtration System, complete set includes:

- * VP-34, Oil Free Vacuum Pump
- * MultiVac 300-MB, 3 Places Stainless Steel Manifold
- * 3 stainless steel funnels
- * 4000 ml PP Waste Bottle with drain
- * Dragon 100, Torch Burner
- * MCE Membrane, 47 mm, 0.45 μ m, 200/PK
- * Silicone Tube (2m)

180600-11-T (22-T)

MultiVac 600-MB-T, Vacuum Filtration System, complete set includes:

- * VP-34, Oil Free Vacuum Pump
- * MultiVac 600-MB, 6 Places Stainless Steel Manifold
- * 6 stainless steel funnels
- * 4000 ml PP Waste Bottle with drain
- * Dragon 100, Torch Burner
- * MCE Membrane, 47 mm, 0.45 μm, 200/PK
- * Silicone Tube (2m)

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Specification

Model	MultiVac 300-MB-T		MultiVac 600-MB-T	
Voltage	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. flow rate	37 l/min	34 l/min	37 l/min	34 l/min
Max. vacuum	- 680 mmHg		- 680 mmHg	
Waste bottle	4000 ml, made of	PP with drain	4000 ml, made of PP with drain	
Number of branch	3		6	
Filter diameter	47mm / 50mm		47mm / 50mm	
Funnel capacity	100ml		100ml	
Effective filtration area	9.6 cm ²		9.6 cm ²	
Port thread	5/16 inch (8 mm)		5/16 inch (8 mm)	
Manifold Part	Material		Material	
Body	SUS316		SUS316	
Control valve	Anodized aluminum		Anodized aluminum	
Filter funnel / base	SUS316		SUS316	
Handle	Anodized aluminum		Anodized aluminum	
Connector / vent valve	SUS316		SUS316	

WaterVac100 Vacuum Filtration System

Features

Save 70% bench space

The compact design of WaterVac 100 vacuum filtration system is ideal for use on the work bench or in the laminar flow hood where its small size can save much precious space.

> Filtration without need of waste bottle

No suction flask and waste bottle design can save lots of bench sapce and time to empty waste bottle.

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.

Applications

- Microbiological Filtration Technique for analyzing aqueous-based fluids for microbial contamination.
- Suspended Solid test for municipal, surface, ground and drinking water.
- General filtration without the need of collecting filtrate.

Ordering Information

190100-01/02

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

190110-01/02

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

190120-01/02

WaterVac 100-MB, Vacuum Filtration System with MRC S.S. funnel adaptor, AC100-240V adaptor, US /EU plug





Model	WaterVac 100 - MS	WaterVac 100 - MB	
Voltage	DC 12 V, 1.5A		
Max. flow rate	2.2 LPM (air) / 0.5 LPM (liquid)		
Max. vacuum	540 mmHg		
Weight	1.16 kg		
Effective filtration area	optional		
Dimension (LxWxH)	170 x 120 x 96 mm		
Suppose base	silicone stopper	Spin-Lock design	
Part	Material		
Housing	SUS304		
Valve plate	EPDM (Ethylene Propylene Diene Mo	nomer)	
Diaphragm	EPDM (Ethylene Propylene Diene Monomer)		
Inlet / outlet port	SUS316		
O-ring	FKM		
Tube	silicon , Ø4x8mm, 2m		







Specification

◆ Max. vacuum : 540 mmHg

Max. flowrate (air): 2.2 LPM

Max. flowrate (clean water): 0.5 LPM

♦ Weight: 1.16 Kg

Power : DC 12 V, 1.5A,

Transformer: 100-240VAC, 50/60Hz

Max. ambient temperature : 5 - 40 °C

Dimension: 170 x 120 x 96 mm (LxWxH)

Materials :

Housing material - stainless steel with powder painting

Valve plate - EPDM(Ethylene Propylene Diene Monomer)

Diaphragm - EPDM(Ethylene Propylene Diene Monomer)

Fluid Path inlet / outlet port - Stainless steel # 316

O-ring - FKM

Fluid path hose - silicone tube

Draining hose - silicone , Ø4/Ø8mm, 2 meter.

Features



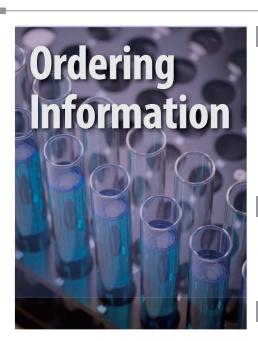
> Save space: No need of suction flask and waste bottle saving much bench space







Easy Operation: Simply put on membrane on filter holder and push on/off button to start filtration easily



Combination A

190120-01	WaterVac 100-MB with US plug (with MRC 's SS filter holder base, need funnel)
190120-02	WaterVac 100-MR with FII plug (with MRC 's SS filter holder hase need funnel)

167103-61 Stainless steel funnel 100ml

☐ **167103-63** Stainless steel funnel 300ml ☐ **167103-65** Stainless steel funnel 500ml

☐ 167103-11 Stainless steel cover for 100ml funnel ☐ 167103-13 Stainless steel cover for 300ml funnel

167103-15 Stainless steel cover for 500ml funnel

Combination B

□ 190110-01 WaterVac 100-MS with US plug (include silicone stopper No.8 adaptor)
 □ 190110-02 WaterVac 100-MS with EU plug (include silicone stopper No.8 adaptor)

200300-01 MF3, Magnetic Filter Holder 300ml with lid kit200500-01 MF5, Magnetic Filter Holder 500ml with lid kit

Combination C

190100-76

☐ 190100-01 WaterVac 100 vacuum filtration system (needs adaptor) with US plug
 ☐ 190100-02 WaterVac 100 vacuum filtration system (needs adaptor) with EU plug

190100-73 Adaptor for Millipore MIACFD101 (100ml), MIACFD201 (250ml) plastic funnel
 190100-74 Adaptor for Sartorius 16A07 (100ml) plastic funnel

190100-75 Adaptor for Pall 4870 (100ml) , 4871 (250ml) plastic funnel

☐ **199100-68** Silicone Tube Φ4.2-8 mm, 200cm

Adaptor for hose barb (Ø4-8mm)

WaterVac 100 Vacuum Filtration System



WaterVac 100 vacuum filtration system

Introduction

The WaterVac 100 is an unique vacuum filtration system which can generate sufficient vacuum for filtration through built-in air/water pump and drain the waste liquid directly. Compared with traditional filtration equipment, WaterVac 100 doesn't need additional suction flasks or bottles to collect the waste liquid which can help save much bench space to make it ideal for work in Laminar Flow Cabinet

The WaterVac 100 is ideal for sample filtration in many laboratory applications such as Microbiology Test in food, pharmaceutical, beverage industries and Suspended Solid test for municipal, surface, ground and drinking water. Also meets Membrane Filter (MF) Technique filtration parameters described in U.S. EPA, ISO and ASTM standards.

Applications

- MF Technique for analyzing aqueous-based fluids for microbial contamination.
- Suspended Solid test for municipal, surface, ground and drinking water.
- General filtration which no need to collect filtrate

Benefits:

Save Space:

No need of suction flask and waste bottle saving much bench space

Save Time:

No need of taking time to empty waste bottle

Safety:

No worry about waste liquid being sucked into pump

Versatile:

Replaceable funnel base design makes it compatible with various kinds of filter holder

Easy Operation:

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



WaterVac 100 with disposable funnel



WaterVac 100 with stainless steel funnel



WaterVac 100 with Magnetic filter hold



How to order?

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





WaterVac 100-MS

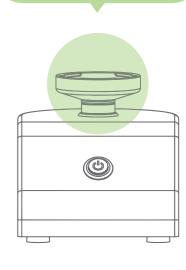
vacuum filtraion system

(190110-01/02) (U.S. plug / EU plug)





We can offer customized adaptor for your funnel











funnel (167103-65)







Adaptor for Sartorius

disposable plastic funnel

(190100-74)









Adaptor for Millipore

disposable plastic funnel

(190100-73)





Adaptor for Pall disposable plastic funnel (190100-75)

Adaptor for Hose barb (Ø4-8mm) (190100-76)



funnel (167103-61)

100ml Stainless steel 300ml Stainless steel 500ml Stainless steel

funnel (167103-63)



Stainless steel cover for 500ml funnel (167103-15)





MF 3, Magnetic filter holder

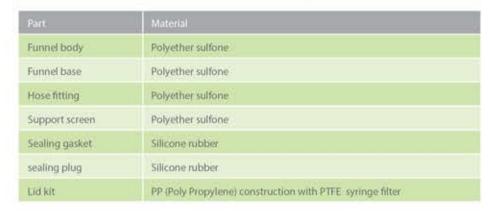
500ml MF 5, Magnetic filter holder (200500-01)

Vacuum Filtration / MF series Magnetic Filter Holder



Specification

Model	MF 3 / MF 3a	MF 5 / MF 5a
Funnel Capacity	300 ml	500 ml
Effective Filtration Area	13.1 cm²	13,1 cm ²
Effective Diameter	41 mm	41 mm
Filter Size	47 mm	47 mm
Fitting Size (Tubing)	Ø 4 – 8 mm	Ø 4 – 8 mm
Graduation Increment	50ml	50ml
Size (Diameter x H)	Ø 9 x 17 cm / Ø 9 x 10.4 cm	Ø 9 x 21.6 cm / Ø 9 x 14.6 cm
Packing Size (LxWxH)	19.5 x 10.2 x 10.2 cm	19.5 x 10.2 x 10.2 cm
Net Weight	350g / 300g	400g / 350g
Gross Weight	450g /4 00g	500g / 450g





MF 5, 500ml Magnetic Filter Holder with lid kit



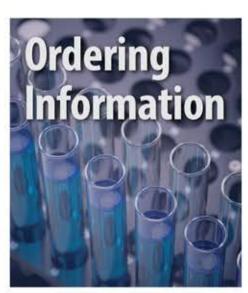
MF 3, 300ml Magnetic Filter Holder with lid kit



MF 5a, 500ml Magnetic Filter Holder (short stem) with lid kit



MF 3a, 300ml Magnetic Filter Holder (short stem) with lid kit



200300-01	MF 3, 300ml Magnetic Filter Holder with lid kit
200310-01	MF 3a, 300ml Magnetic Filter Holder (short stem) with lid kit
200500-01	MF 5, 500ml Magnetic Filter Holder with lid kit
200510-01	MF Sa, 500ml Magnetic Filter Holder (short stem) with lid kit
200300-36	PP lid kit for MF3,MF3a, MF5, MF5a Filter Holder
200300-37	Membrane support screen
194225-01	Syringe filter
167110-17	#16 Silicone stopper
167100-20	PALL 61631, Type A/ E Glass Fiber Discs, 1 um
167100-52	PALL 66278, GN-6 Metricel Membrane Disc Filter, 0.45um, grid (200/PK)

MF Magnetic Filter Holder



MF series Magnetic Filter Holder

Introduction

MRC MF series magnetic filter holders are designed with double-layer magnets to ensure a tight seal between the funnel and support base. The user-friendly design can allow one-handed operation and prevent possible twisting and tearing of the membrane.

Innovative design of a hose fitting detachable to the support base can allow a direct connection to vacuum source and a flexible use with various kinds of vacuum flask and bottle. Constructed of Polyether sulfone (PES) material,

MF series filter holders can be resistant to a wide range of solvents, sturdy and autoclavable.

Applications

- Suspended Solid test filtration for municipal, surface, ground and drinking water
- Microbiology test filtration in food, pharmaceutical, beverage industries
- Medium purification in life science laboratory
- General filtration for aqueous sample

Benefits:

Compatible with various kinds of bottle, vacuum flask with or without hose barb to collect filtrate directly

Strong magnetic seal allows one-handed operation and prevents possible twisting and tearing of the membrane. Membrane guide helps position membrane easily

PES (Polyether sulfone) construction, resistant to a wide range of chemicals and high temperature, sturdy and unbreakable

Reusable:

Withstands autoclave cycles (121°C, 15 minutes), save money and energy consumption



Easy to use







Compatible with suction flask Compatible with general flask Compatible with tissue bottle

Waste Bottle Accessories



1200 ml PES Waste Bottle (197000-11)

Specification		Material	
Port thread (I.D. tubing)	5/16 in. (8 mm)	Container	PES
Graduated increment	100 ml	Cover	PES
Overflow protection	Yes	Overflow protection	PP
Cap with suction fitting	Yes		
Autoclavable	Yes		



1200 ml PC Waste Bottle (197000-11-PC)

Specification		Materi	al
Port thread (I.D. tubing)	5/16 in. (8 mm)	Container	PC
Graduated increment	100 ml	Cover	PC
Overflow protection	Yes	Overflow protection	PP
Cap with suction fitting	Yes		
Autoclavable	Yes		



1000 ml Receiver Flask with Drain & Silicone Fixing Sucker (167100-15)

Specification		Material	
Port thread (I.D. tubing)	5/16 in. (8 mm)	Container	Borosilicate glass
Graduated increment	100 ml	Connector	PP
Drain	Yes		
Stopper	No.16 (option)		
Silicone fixing sucker	Yes		



4000 ml PP Waste Bottle (167200-47)

Specification		Material	
Port thread (I.D. tubing)	1/4 in. (6.5 mm)	Container	PP
Graduated increment	500 ml	Cover	PP
Overflow protection	Yes	Overflow protection	PP
Autoclavable	Yes		



4000 ml PP Waste Bottle with Drain (167200-48)

Specification		Material	
Port thread (I.D. tubing)	1/4 in. (6.5 mm)	Container	PP
Graduated increment	500 ml	Cover	PP
Overflow protection	Yes	Overflow protection	PP
Drain	Yes	Tube	Rubber
Autoclavable	Yes	l	

^{*} PES: Polyethersulfone, PC: Polycarbonate, PP: Polypropylene

Waste Bottle Accessories



HDPE Waste Bottle

Specification	2000ml waste bottle	4000ml waste bottle
Catalog number	162-2102-OEM	167200-46
Port thread (I.D. tubing)	1/4 in. (6.5 mm)	1/4 in. (6.5 mm)
Graduated increment	500 ml	500 ml
Overflow protection	No	Yes
Material of cover	PP	PP



PP Funnel Lid

Specification	For LF3 /3a	For LF 5/5a, MF 3/3a/5/5a
Catalog number	197000-36	200300-36
Syringe filter	Ø25 mm, 0.2 μm	Ø25 mm, 0.2 μm
Material of body	PP	PP
Material of cap	Silicone	Silicone
Material of Syringe filter	PTFE	PTFE



Syringe Filters

Specification	Syringe filter	Small disc filter	Large disc filter
Catalog number	194225-01	167200-35	167200-36
Brand	Pall	Pall	Pall
Filter diameter/ pore size	$25~mm$ / $0.2~\mu m$	$35~mm$ / $0.2~\mu m$	50 mm / 0.2 μm
Shell diameter	30 mm	45 mm	72 mm
Material of filter	PTFE	PTFE	PTFE
Material of shell	PP	PP	PP



Membrane Filters

Specification	Glass fiber filter	MCE membrane	
Catalog number	167100-20	167100-52	
Brand	Pall	Pall	
Filter diameter	47 mm	47 mm	
Pore size	1 μm	0.45 μm	
Material of filter	Glass fiber	MCE	
Package	100/PK	200/PK	



Silicone Fixing Sucker (167200-45)

Specification		Material		
Suitable flask size	1000 ml	Fixing sucker	Silicone	

^{*} PES: Polyethersulfone, PC: Polycarbonate, PP: Polypropylene



