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Get more information for Rocker Find us at **www.rocker.com.tw**

Product specifications are subject to change without prior notification.

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2025 ~ 2026 **PRODUCT CATALOG**

Laboratory Filtration Laboratory Pump / Life Sciences Food Analysis / Water Analysis

www.rocker.com.tw









ROCKER **Global Expert in**

Laboratory Vacuum Filtration Equipment

Rocker Scientific Co., Ltd. established in 2007 in Taiwan, is a professional vacuum filtration solutions provider and manufacturer for laboratories in food, water, pharmaceutical, biotech industries, and academia. Our manufacturing factories are in compliance with ISO 9001-2015 guality management system and majority of products are CE/CSA/RoHS certified.

Our R&D excels over time and have been awarded with Taiwan Excellence for 2 times - MF Magnetic Filter Holder in 2019 and Alligator 200 Diaphragm Liquid Pump in 2022. By continuously creating solutions that are time-saving, space-saving, budget-saving and safe-to-use for all lab scientists, Rocker Scientific has been granted numerous patents in various countries and has over 10K laboratories in more than 70 countries that had chosen Rocker value and products.

ROCKER, as an expert of laboratory filtration, is committed to continuously providing safer, more efficient and eco-friendlier lab solutions for all scientists.



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LABORATORY

PUMP

Oil Free Vacuum Pump Rocker 300 / 300DC Rocker 400 / 410 Rocker 900 / 901 / 910 / 911 PTFE Coated Chemical Resistant Vacuum Pump Rocker 300C Rocker 400C / 410C Rocker 900C / 910C **Chemical Resistant Vacuum Pump** Chemker 300 / 400 Chemker 410 / 411 Chemker 600 / 610 / 611 **Vacuum Controller** Pilot 100 Auto Vacuum System DC Chem 610 Pro Diaphragm Liquid Pump Alligator 200 **Rotary Vane Vacuum Pump** Tanker 130 / 150 / 215 / 230 **Dispensing Peristaltic Pump** Buller 600 Oil Free Vacuum Pump / Compressor Rocker 430 **Oil Free Compressor** Rocker 320 / 420 Air Supply System Rocker 440 **Pump Accessories**

Oil Free Vacuum Pump

Small & space-saving The compact design makes Rocker pumps light, space-saving and easy-to-carry for various applications. Overheat protection Pump shuts down when overheated and resumes once cooled down. ROCKER 300 Quieter and more stable Enhanced rubber assemblies make all Rocker pumps work much quieter and more stable.



° ≫

Prote[™] overflow protection

Prevents liquid from being sucked into the pump. (*Rocker 300/300DC/400/410/430)





Air inlet protection

Filter cartridge absorbs particle and moisture to prolong pump life.

Quality compliance

• CE certification CSA certification

- IP 30 protection
- RoHS certification





Oil Free Vacuum Pump

Features

Compact & care-free Rocker oil-free pumps are compact in size, light in weight and oil-mist-free, making them the best pal in laboratory.

▶ Prote[™] overflow protection

Equipped with Prote[™] overflow protection to prevent liquid from being sucked into the pump.

Air inlet protection

Filter cartridge at air inlet filters particles and moisture, which prevents pumps from damage.

Vacuum regulation

Equipped with vacuum gauge and regulator for vacuum monitoring and adjustment.

Overheat protection

All Rocker oil-free pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

International certification CE certification CSA certification (Rocker 300) IP 30 protection (Rocker 300) **RoHS** certification

▶ Two-Year Warranty

Applications

- ► Vacuum filtration
- Suspended solid test
- Microbiological test
- Air sampling

Ordering Information

167300-11(22)

Rocker 300, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

167330-00

Rocker 300DC, DC Power Vacuum Pump (DC12V)





Specification

Model
PERFORMANCE DAT
Max. vacuum
Max. flow rate
Hose barb
Noise level
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Voltage
Frequency
Max. power
Max. current
Safety
OTHER DATA
Equipped with

ROCKER



Rocker 300		Rocker 300DC
Ą		
99 mbar abs.		99 mbar abs.
23 L/min @60Hz	20 L/min @50Hz	25 L/min
ID8		ID8
50 dB		50 dB
4.1 Kg		3.5 Kg
27 x 14 x 20 cm		27 x 12 x 17 cm
110V	220V	DC12V
50/60Hz		-
65W (1/8 HP)	60W (1/8 HP)	35W (1/8 HP)
0.7A	0.3A	3.0A
Overheat Protection		Overheat Protection
Vacuum regulator Overflow protection / Filter cartridge		Vacuum regulator Overflow protection / Filter cartridge



Oil Free Vacuum Pump



Features

- Compact & care-free Rocker oil-free pumps are compact in size, light in weight and oil-mist-free, making them the best pal in laboratory.
- ▶ Prote[™] overflow protection Equipped with Prote[™] overflow protection to prevent liquid from being sucked into the pump.
- Air inlet protection Filter cartridge at air inlet filters particles and moisture, which prevents pumps from damage.
- Vacuum regulation Equipped with vacuum gauge and

regulator for vacuum monitoring and adjustment.

Overheat protection

All Rocker oil-free pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

International certification

CE certification CSA certification IP 30 certification **RoHS** certification

Two-Year Warranty

Applications

- Suspended solid test
- Vacuum filtration
- Microbiological test
- Air sampling

Ordering Information

167400-11(22) Rocker 400, Vacuum Pump

AC110V, 60Hz (AC220V, 50Hz)

167410-11(22)

Rocker 410, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)





Specification

Mardal	De alum 400		De due 410	
Model	Rocker 400		Rocker 410	
PERFORMANCE DATA				
Max. vacuum	99 mbar abs.		25 mbar abs.	
Max. flow rate	37 L/min @60Hz	34 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz
Hose barb	ID8		ID8	
Noise level	52 dB		52 dB	
Net weight	5.2 Kg		5.2 Kg	
Dimension (LxWxH)	31 x 14 x 20 cm		31 x 14 x 20 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50/60Hz		50 / 60Hz	
Max. power	100W (1/6 HP)	80W (1/6 HP)	100W (1/6 HP)	80W (1/6 HP)
Max. current	1.0A	0.4A	1.0A	0.4A
Safety	Overheat Protection		Overheat Protection	
OTHER DATA				
Equipped with	Vacuum regulator Overflow protection / Filter cartridge		Vacuum regulator Overflow protection / Filter cartridge	

Oil Free Vacuum Pump

Features

Compact & care-free Rocker oil-free pumps are compact in

size, light in weight and oil-mist-free, making them the best pal in laboratory.

Vacuum regulation Equipped with vacuum gauge and regulator for vacuum monitoring and adjustment.

Overheat protection

All Rocker oil-free pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

Air inlet protection

Filter cartridge at air inlet filters particles and moisture, which prevents pumps from damage.

International certification CE certification IP 30 certification **RoHS** certification



Applications

- Vacuum filtration
- Vacuum drying / oven / defoaming
- Suspended solid test
- Microbiological test
- Air sampling

Ordering Information

167900-11(22) Rocker 900, Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)

167901-11(22) Rocker 901, Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)





Specification Model

PERFORMANCE DATA
Max. vacuum
Max. flow rate
Hose barb
Noise level
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Voltage
Frequency
Max. power
Max. current
Safety
OTHER DATA
Equipped with

* Overflow protection is not included.



Rocker 900

Rocker 901

Rocker 900		Rocker 901		
85 mbar abs.		85 mbar abs.		
100 L/min @60Hz	90 L/min @50Hz	120 L/min @60Hz	100 L/min @50Hz	
ID8		ID10		
68 dB		68 dB		
7.3 Kg		7.0 Kg		
35 x 13 x 21 cm		35 x 13 x 21 cm		
110V	220V	110V	220V	
50/60Hz		50 / 60Hz		
270W (1/3 HP)	250W (1/3 HP)	270W (1/3 HP)	250W (1/3 HP)	
2.4A	1.2A	2.4A	1.2A	
Overheat Protection		Overheat Protection		
Vacuum regulator Filter cartridge		Vacuum regulator		

Oil Free Vacuum Pump



Features

- Compact & care-free Rocker oil-free pumps are compact in
- size, light in weight and oil-mist-free, making them the best pal in laboratory.

Vacuum regulation Equipped with vacuum gauge and

regulator for vacuum monitoring and adjustment.

Overheat protection

All Rocker oil-free pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

Air inlet protection

Filter cartridge at air inlet filters particles and moisture, which prevents pumps from damage.

- International certification CE certification IP 30 certification **RoHS** certification
- Two-Year Warranty

Applications

- Vacuum filtration
- Vacuum drying / oven / defoaming
- Suspended solid test
- Microbiological test
- Air sampling

Ordering Information

167910-11(22)

Rocker 910, Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)

167911-11(22)

Rocker 911, Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)





Specification

-				
Model	Rocker 910		Rocker 911	
PERFORMANCE DATA				
Max. vacuum	25 mbar abs.		25 mbar abs.	
Max. flow rate	55 L/min @60Hz	45 L/min @50Hz	65 L/min @60Hz	55 L/min @50Hz
Hose barb	ID8		ID10	
Noise level	68 dB		68 dB	
Net weight	7.3 Kg		7.0 Kg	
Dimension (LxWxH)	35 x 13 x 21 cm		35 x 13 x 21 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50/60Hz		50 / 60Hz	
Max. power	270W (1/3 HP)	250W (1/3 HP)	270W (1/3 HP)	250W (1/3 HP)
Max. current	2.4A	1.2A	2.4A	1.2A
Safety	Overheat Protection		Overheat Protection	
OTHER DATA				
Equipped with	Vacuum regulator Filter cartridge		Vacuum regulator	

* Overflow protection is not included.

ROCKER

PTFE Coated **Chemical Resistant** Vacuum Pump Guide



Rocker 300C Max. vacuum : 99 mbar abs. Max. flow rate : 23 (20) L/min



Rocker 400C Max. vacuum : 99 mbar abs. Max. flow rate : 34 (31) L/min



Rocker 410C Max. vacuum : 25 mbar abs. Max. flow rate : 23 (20) L/min

Pumping Speed Graph





FFKM valve plates are available (Cat. No. 189301-32-1).



Rocker 900C Max. vacuum : 99 mbar abs. Max. flow rate : 60 (55) L/min



Rocker 910C Max. vacuum : 25 mbar abs. Max. flow rate : 37 (31) L/min





PTFE Coated Chemical Resistant Vacuum Pump



PTFE Coated Chemical Resistant Vacuum Pump

Features

Chemical resistance & effective

Applied with PTFE-coated diaphragm and pump head with FKM valves, Rocker 300C pumps are adequate to work in milder chemical gases and be cost-effective at the same time.

Oil-free & care-free

Rocker 300C pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

- Minimized vibration & guiet Superior weight distribution and assemblies minimize the vibration and noises and maximize stability.
- Overheat protection

Rocker 300C pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

- International certification CE certification IP 30 protection
- **RoHS** certification Ono-Year Warranty

Applications

- Solvent purification
- Solid-Phase Extraction (SPE)
- ► Vacuum filtration

Ordering Information

189300-11(22) Rocker 300C, PTFE Coated Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)



Specification

Model
PERFORMANCE DA
Max. vacuum
Max. flow rate
Hose barb
Noise level
Net weight
Dimension (LxWxH
ELECTRICAL DATA
Voltage
Frequency
Max. power
Max. current
Safety
OTHER DATA
Equipped with



* For aggressive solvents and solutions, please refer to Chemker pumps.

	Rocker 300C	
TA		
	99 mbar abs.	
	23 L/min @60Hz	20 L/min @50Hz
	ID8	
	50 dB	
	4.1 Kg	
)	29 x 14 x 20 cm	
	110V	220V
	50/60Hz	
	65W (1/8 HP)	60W (1/8 HP)
	0.7A	0.3A
	Overheat Protection	
	Glass moisture trap Vacuum regulator	



PTFE Coated Chemical Resistant Vacuum Pump

Features

Chemical resistance & effective

Applied with PTFE-coated diaphragm and pump head with FKM valves, Rocker 400C / 410C pumps are adequate to work in milder chemical gases and be costeffective at the same time.

Oil-free & care-free

Rocker 400C / 410C pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Minimized vibration & quiet

Superior weight distribution and assemblies minimize the vibration and noises and maximize stability.

Overheat protection

All Rocker 400C / 410C pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

International certification

CE certification IP 30 protection **RoHS** certification

One-Year Warranty

Applications

- Solvent purification
- Gel drying
- Vacuum desiccator
- Vacuum filtration

Ordering Information 189400-11(22)

Rocker 400C, PTFE Coated Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

189410-11(22)

Rocker 410C, PTFE Coated Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)





* For aggressive solvents and solutions, please refer to Chemker pumps.

Specification

				opeaneaton				
Model	Rocker 400C		Rocker 410C					
PERFORMANCE DATA	A							
Max. vacuum	99 mbar abs.		25 mbar abs.					
Max. flow rate	34 L/min @60Hz	31 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz				
Hose barb	ID8		ID8					
Noise level	52 dB		52 dB					
Net weight	5.7 Kg		5.6 Kg					
Dimension (LxWxH)	31 x 14 x 20 cm		31 x 14 x 20 cm					
ELECTRICAL DATA								
Voltage	110V	220V	110V	220V				
Frequency	50/60Hz		50 / 60Hz					
Max. power	100W (1/6 HP)	80W (1/6 HP)	100W (1/6 HP)	80W (1/6 HP)				
Max. current	1.0A	0.4A	1.0A	0.4A				
Safety	Overheat Protection		Overheat Protection					
OTHER DATA								
Equipped with	Glass moisture trap Vacuum regulator		Glass moisture trap Vacuum regulator					



PTFE Coated Chemical Resistant Vacuum Pump

Features

Chemical resistance & effective

Applied with PTFE-coated diaphragm and pump head with FKM valves, Rocker 900C / 910C pumps are adequate to work in milder chemical gases and be costeffective at the same time.

Oil-free & care-free

Rocker 900C / 910C pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Minimized vibration & quiet

Superior weight distribution and assemblies minimize the vibration and noises and maximize stability.

Overheat protection

All Rocker 900C / 910C pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

International certification

CE certification IP 30 protection **RoHS** certification

One-Year Warranty

Applications

- Vacuum evaporation and concentration
- Vacuum drying / oven / defoaming
- Solvent purification
- Vacuum filtration

Ordering Information

189900-11(22)

Rocker 900C, PTFE Coated Chemical Resistant Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)

189910-11(22)

Rocker 910C, PTFE Coated Chemical Resistant Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)





* For aggressive solvents and solutions, please refer to Chemker pumps.

Specification

Model	Rocker 900C		Rocker 910C	
PERFORMANCE DATA	A			
Max. vacuum	99 mbar abs.		25 mbar abs.	
Max. flow rate	60 L/min @60Hz	55 L/min @50Hz	37 L/min @60Hz	31 L/min @50Hz
Hose barb	ID8		ID8	
Noise level	60 dB		60 dB	
Net weight	6.8 Kg		6.8 Kg	
Dimension (LxWxH)	37 x 13 x 21 cm		37 x 13 x 21 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50/60Hz		50 / 60Hz	
Max. power	250W (1/3 HP)	190W (1/3 HP)	250W (1/3 HP)	190W (1/3 HP)
Max. current	1.2A	0.9A	1.2A	0.9A
Safety	Overheat Protection		Overheat Protection	
OTHER DATA				
Equipped with	Glass moisture trap Vacuum regulator		Glass moisture trap Vacuum regulator	















Chemker 300 Max. vacuum : 99 mbar Max. flow rate : 20 (18) L/min



Chemker 400 Max. vacuum : 99 mbar Max. flow rate : 38 (33) L/min



Chemker 410 Max. vacuum : 10 mbar Max. flow rate : 20 (18) L/min



Chemker 411 Max. vacuum : 10 mbar Max. flow rate : 20 (18) L/min



Max. vacuum : 65 mbar Max. flow rate : 65 (60) L/min

Max. flow rate : 34 (30) L/min

Chemker 600

Chemker 610

Max. vacuum : 7 mbar





Chemker 611 Max. vacuum : 7 mbar Max. flow rate : 34 (30) L/min

* The value in () is the max. flow rate at 50Hz. ** The mbar value is the gas particles left in the system, the less particles left in, the higher vacuum it is.



Pumping Speed Graph





PTFE

Provide superior pressure balance and ensure pump durability.

Chemical Resistant Vacuum Pump

Superior corrosion resistance

Fully PTFE-made pump head and FFKM valves.



Vacuum regulator & moisture trap

Make operation easier and pump life longer. (*Chemker 411 / 611)



Chemical Resistant Vacuum Pump



Chemker 400

Features

- Superior chemical resistance All wetted parts of Chemker pumps are made of PTFE and FFKM material, making them resistant to most of corrosive gases.
- ► Oil-free & care-free
- Chemker pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Quieter & more stable

Motor-driven transmission and vibration-proof assembly, making Chemker pumps much quieter and more stable.

Overheat protection

All Chemker pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

- International certification CE certification **RoHS** certification
- One-Year Warranty

Applications

- Solvent purification
- Solid-Phase Extraction (SPE)
- Gel electrophoresis
- Vacuum filtration

Ordering Information

169300-11(22)

Chemker 300, **Chemical Resistant Vacuum Pump** AC110V, 60Hz (AC220V, 50Hz)

169400-11(22)

Chemker 400, **Chemical Resistant Vacuum Pump** AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Chemker 300		Chemker 400	
PERFORMANCE DATA				
Max. vacuum	99 mbar abs.		99 mbar abs.	
Max. flow rate	20 L/min @60Hz	18 L/min @50Hz	38 L/min @60Hz	33 L/min @50Hz
Hose barb	ID8		ID8	
Noise level	50 dB		52 dB	
Net weight	5.0 Kg		7.0 Kg	
Dimension (LxWxH)	20 x 11 x 21 cm		27 x 11 x 18 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50/60Hz		50 / 60Hz	
Max. power	70W (1/8 HP)	60W (1/8 HP)	90W (1/6 HP)	90W (1/6 HP)
Max. current	0.8A	0.4A	1.1A	0.5A
Safety	Overheat Protection		Overheat Protection	
OTHER DATA				
Equipped with	-		-	

Chemical Resistant Vacuum Pump

Features

Superior chemical resistance All wetted parts of Chemker pumps are made of PTFE and FFKM material, making them resistant to most of corrosive gases.

Oil-free & care-free

Chemker pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Ouieter & more stable Motor-driven transmission and vibration-proof assembly, making Chemker pumps much quieter and

more stable. Overheat protection

All Chemker pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

- International certification CE certification **RoHS** certification
- One-Year Warranty

Applications

- Solvent purification
- Gel drying
- Rotary evaporation
- Vacuum filtration

Ordering Information

169410-11(22) Chemker 410,

Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

169411-11(22)

Chemker 411, Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)





Specification

Model

Max. vacuum

Max. flow rate

Hose barb

Noise level

Net weight

Voltage Frequency Max. power Max. current Safety

Dimension (LxWxH)

ELECTRICAL DATA

Equipped with





Chemker 410





Chemker 411

Chemker 410		Chemker 411		
Â				
10 mbar abs.		10 mbar abs.		
20 L/min @60Hz	18 L/min @50Hz	20 L/min @60Hz	18 L/min @50Hz	
ID8		ID8		
52 dB		52 dB		
7.0 Kg		7.4 Kg		
26 x 15 x 18 cm		26 x 24 x 19 cm		
110V	220V	110V	220V	
50/60Hz		50/60Hz		
90W (1/6 HP)	90W (1/6 HP)	90W (1/6 HP)	90W (1/6 HP)	
1.2A	0.5A	1.2A	0.5A	
Overheat Protection		Overheat Protectio	n	
-		Glass moisture tra Vacuum regulator		



Chemical Resistant Vacuum Pump



Features

Superior chemical resistance All wetted parts of Chemker pumps are made of PTFE and FFKM material, making them resistant to most of corrosive gases.

Start against vacuum

Chemker 600 series pumps, designed to start against vacuum, are ideal for various kinds of laboratory instruments which need to stop and restart pump repeatedly during operating process.

▶ Oil-free & care-free

Chemker pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Quieter & more stable

Motor-driven transmission and vibrationproof assembly, making Chemker pumps much quieter and more stable.

Overheat protection

All Chemker pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

International certification CE certification **RoHS** certification

One-Year Warranty

Applications

- Rotary evaporation
- Vacuum concentration and distillation
- ► Vacuum drying / oven / defoaming
- Solvent purification
- Vacuum filtration

Ordering Information

169600-11(22)

Chemker 600, **Chemical Resistant Vacuum Pump** AC110V, 60Hz (AC220V, 50Hz)



Cposification

Specification		
Model	Chemker 600	
PERFORMANCE DATA		
Max. vacuum	65 mbar abs.	
Max. flow rate	65 L/min @60Hz	60 L/min @50Hz
Hose barb	ID10	
Noise level	60 dB	
Net weight	13.2 Kg	
Dimension (LxWxH)	35 x 15 x 23 cm	
ELECTRICAL DATA		
Voltage	110V	220V
Frequency	50 / 60Hz	
Max. power	220W (1/3 HP)	200W (1/3 HP)
Max. current	2.0A	1.2A
Safety	Overheat Protection	
OTHER DATA		
Equipped with	-	

Chemical Resistant Vacuum Pump

S

Features

Superior chemical resistance

All wetted parts of Chemker pumps are made of PTFE and FFKM material, making them resistant to most of corrosive gases.

Start against vacuum

Chemker 600 series pumps, designed to start against vacuum, are ideal for various kinds of laboratory instruments which need to stop and restart pump repeatedly during operating process.

Vacuum regulation

Chemker 611 is equipped with vacuum regulator and moisture trap for vacuum adjustment and condensation collection to enhance pump durability.

Oil-free & care-free

Chemker pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Quieter & more stable

Motor-driven transmission and vibrationproof assembly, making Chemker pumps much quieter and more stable.

Overheat protection

All Chemker pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

International certification

CE certification **RoHS** certification

One-Year Warranty

Applications

- Rotary evaporation
- Vacuum concentration and distillation
- Vacuum drying / oven / defoaming
- Solvent purification
- Vacuum filtration

Ordering Information

169610-11(22)

Chemker 610, Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

169611-11(22)

Chemker 611, Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

Model Max. vacuum Max. flow rate Hose barb Noise level Net weight Dimension (LxWxH) ELECTRICAL DATA Voltage Frequency Max. power

Specification

Max. current Safety

Equipped with

ROCKER





Chemker 610



Chemker 611

Chemker 610		Chemker 611			
7 mbar abs.		7 mbar abs.			
34 L/min @60Hz	30 L/min @50Hz	34 L/min @60Hz	30 L/min @50Hz		
ID10		ID10			
60 dB		60 dB			
13.3 Kg		13.7 Kg			
35 x 16 x 23 cm		35 x 20 x 24 cm			
110V	220V	110V	220V		
50 / 60Hz		50 / 60Hz			
220W (1/3 HP)	200W (1/3 HP)	220W (1/3 HP)	200W (1/3 HP)		
2.0A	1.2A	2.0A	1.2A		
Overheat Protectio	n	Overheat Protection			
-		Glass moisture trap Vacuum regulator			



Vacuum Controller



Vacuum Controller



Features

Auto evaporation mode Pilot 100 detects the vapor pressure and keep vacuum at optimal level to avoid

bumping. Feel free to start and leave.

Graphical user interface

Processes of Pilot 100 can be defined via its user-friendly GUI. With intuitive dropdown lists and modules up to 10 steps, it provides user full flexibility of control.

High compatibility

Pilot 100 Vacuum Controller can be installed with most of vacuum sources including diaphragm pumps, piston pumps, rotary vane pumps, etc.

Touch panel

Touch panel of Pilot 100 reads the taps underneath thick lab gloves, making the control easy and convenient.

Detachable & remote control

Control panel of Pilot 100 is detachable from its magnetic mount base, and can be remotely controlled.

International certification

CE certification IP 42 protection (front) **RoHS** certification

One-Year Warranty

Applications

- Laboratory vacuum control
- Rotary evaporation
- Vacuum concentration and distillation

Ordering Information

183100-01(02)

Pilot 100, Vacuum Controller with AC100-240V adaptor, US plug (EU plug)

169410-11(22)

Chemker 410, Chemical Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

169610-11(22)

Chemker 610, **Chemical Resistant Vacuum Pump** AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Pilot 100
PERFORMANCE DATA	
Measuring range	1100 ~ 0 mbar abs.
Measurement accuracy	± 2 mbar (after adjustment, constant temp.)
Setting range	1013 ~ 0 mbar
Resolution	1 digit
Pressure display	mbar, hPa, torr
Hose barb	ID8~ID10
Net weight	2.2 Kg
Dimension (LxWxH)	21 x 20 x 18 cm
ELECTRICAL DATA	
Power input	DC24V, 1.0A
Max. power	15W
Safety	Overpressure Protection, Error Message



106

Auto evaporation mode

Avoid bumping and keep optimal vacuum level. Feel free to start and leave.



A # @



Leave your gloves on The 7 " panel reads the taps underneath thick lab gloves.



GUI & flex in control

Intuitive and modularized settings, set up to 10 steps per program.



Auto Vacuum System



Features

BLDC motor-driven

DC Chem 610 Pro is driven by brushless DC motor that consumes 40% or less power and contributes to less wear and tear.

Precise & zero lag

DC Chem 610 Pro performs more precise and stabler vacuum control as compared to general solenoid valve controllers by direct controlling motor rotation.

Self-cleaning mechanism

DC Chem 610 Pro draws and bypasses clean air automatically to evacuate remaining moisture and gas every time after use without detaching any connected equipment. Making the maintenance easy and effortless.

Auto evaporation mode

DC Chem 610 Pro detects the vapor pressure and keep vacuum at optimal level to avoid bumping. Feel free to start and leave.

Detachable & remote control Control panel of DC Chem 610 Pro is detachable from its magnetic mount base, and can be remotely controlled.

International certification CE certification IP 42 protection (front) **RoHS** certification

One-Year Warranty

Applications

- Laboratory vacuum control
- Rotary evaporation
- Vacuum concentration and distillation

Ordering Information

182610-01(02)-P

DC Chem 610 Pro, Auto Vacuum System, AC100-240V, 50/60Hz, US plug (EU plug) 182610-50 Glass flask set for DC Chem 610 Pro

182610-51-P

Emission condenser for DC Chem 610 Pro



Specification

DC Chem 610 Pro 7 mbar abs. 37 L/min
371/min
57 6/11111
1100 ~ 0 mbar abs.
\pm 2 mbar (after adjustment, constant temp.)
1013 ~ 0 mbar
1 ~ 100%, adjustable
1 digit
mbar, hPa, torr
ID10
50 dB
15.0 Kg
44 x 38 x 25 cm
100-240V
50 / 60Hz
120W (1/6 HP)
Brushless DC Motor (BLDC)
Fuse, Error Message
Glass moisture trap

Auto Vacuum System







Diaphragm Liquid Pump



Features

Save 30% time

Alligator 200 comes with a built-in liquid pump to transfer the filtered liquid directly to waste. It saves time by simplifying filtration process.

Save 40% bench space

Alligator 200 pump can be connected directly to filtration system without attaching to waste bottles, which can save up to 40% of bench space in limited lab area.

Touchless operation, contamination-free Equipped with an infrared sensor switch that activates filtration with a wave of your hand. No touch necessary.

In compliance with ISO 8199

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

Clean and efficient

Alligator 200 is diaphragm pump with no needs for lubricant and oil-mist-free. Its built-in brushless DC motor offers stronger and stabler flow than other equivalent models.

International certification CE certification IP 64 protection **RoHS** certification

One-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- ► General filtration without collecting filtrate

Ordering Information 181200-01(02)

Alligator 200, Diaphragm Liquid Pump with AC100-240V adaptor, US plug (EU plug)



Alligator 200

313 mbar abs.

4.5 L/min

ID8

60 dB

2.4 Kg

24 x 19 x 20 cm

DC24V, 1.8A

44W

SS316, FKM, Silicone, PP, PPS

Brushless DC Motor (BLDC)

Overload Protection



Specification

PERFORMANCE DATA

Max. liquid flow rate

Dimension (LxWxH)

ELECTRICAL DATA

Power input

Max. power

Motor

Safety

Material contact with filtrate

Model

Max. vacuum

Hose barb

Noise level

Net weight



Adjustable vent valve

Quick-Fit hose barb

Rotary Vane Vacuum Pump

Features

- ▶ High vacuum, high flow rate Tanker pumps are high-flow-rate and high vacuum driven by rotary vane that can reach up to 10⁻¹ torr. Suitable for experiments require medium to high flow rate and vacuum capacity.
- Quiet and low vibration Tanker pumps feature low noise level, low vibration and long product life.

Overheat protection

All Tanker pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

- International certification CE certification
- One-Year Warranty

Applications

- Vacuum filtration
- ► Vacuum drying / oven / defoaming
- Various vacuum applications

Ordering Information

187130-11(22) Tanker 130, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

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187150-11(22)
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Tanker 150, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

187215-11(22)

Tanker 215, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

187230-11(22)

Tanker 230, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz) 187100-05 Lubricant (500 mL) 187100-30 Exhause filter 187100-25 Oil mist outlet





187100-30 (Optional) Exhaust filter Exhaust filter with stainless steel housing can be used to prevent oil mist from being sprayed into the room and keep laboraotry clean.

ROCKER

187100-25 (Optional) Oil mist outlet Oil mist outlet is to be connected to an optional hose barb (Thread 1/8 PT) and tube to exhaust oil mist.

Specification

Specification									
Model	Tanker 130		Tanker 150		Tanker 215		Tanker 230		
PERFORMANCE DATA									
Max. vacuum	1 x 10 ⁻¹ torr abs.		1 x 10 ⁻¹ torr abs.		5×10^{-2} torr abs.		5×10^{-2} torr abs.		
Max. flow rate	85 L/min @60Hz	70 L/min @50Hz	142 L/min @60Hz	127 L/min @50Hz	42 L/min @60Hz	36 L/min @50Hz	85 L/min @60Hz	70 L/min @50Hz	
Hose barb	ID10		ID10		ID10		ID10		
Noise level	52 dB		52 dB		52 dB		52 dB		
Net weight	9.6 Kg		13.0 Kg 11.4 Kg		11.4 Kg	11.4 Kg		14.0 Kg	
Dimension (LxWxH)	32 x 12 x 36 cm		34 x 13 x 38 cm		32 x 12 x 36 cm		34 x 13 x 38 cm		
ELECTRICAL DA	ATA								
Voltage	110V	220V	110V	220V	110V	220V	110V	220V	
Frequency	50 / 60Hz		50 / 60Hz		50/60Hz		50 / 60Hz		
Max. power	250W (1/3 HP)	250W (1/3 HP)	375W (1/2 HP)	375W (1/2 HP)	250W (1/3 HP)	250W (1/3 HP)	375W (1/2 HP)	375W (1/2 HP)	
Max. current	4.2A	2.5A	6.5A	3.0A	4.2A	2.5A	6.5A	3.0A	
Safety	Overheat Protection		Overheat Protection		Overheat Protection		Overheat Protection		

Dispensing Peristaltic Pump

Features

Accurate dispensing Accurate dosage volume from 1 mL to 9999 mL ensured by back-suction function.

Make calibration easy

No more repetitive number entries, Buller 600 calls all required parameters automatically. Finish calibration in a single tap.

User-defined program

Set your own dispensing program to maximum 8 steps with constant, ramp, dispensing, interval or cycle steps.

In compliance with ISO 7218

Built-in microbial program in compliance with ISO 7218 guidance, ideal for dispensing media and dilute buffer in all microbiological tests.

International certification

CE certification IP 33 protection

- **RoHS** certification
- One-Year Warranty

Applications

- Liquid dispensing and transferring Sterile solution, buffer, chemicals Beverage, winery, dairy products
- Instrument dosing and feeding Fermenter, analyzer, etc.

Ordering Information

185600-01(02) Buller 600, Dispensing Peristaltic Pump, AC100-240V, 50/60Hz, US plug (EU plug)

185601-01(02)

Buller 600 - DSP, Dispensing Peristaltic Pump, AC100-240V, 50/60Hz,

US plug (EU plug) 184100-15

Normal flow rate pump head, ~ 1950 mL/min

184100-20 High flow rate pump head,

~ 2130 mL/min

185600-10 Handling dispenser, DB9 connector,

200 cm 185600-41

Foot switch, DB9 connector, 200 cm

*Please refer to P.106 for optional accessories.





Specification

Model Speed Speed accuracy Max. flow rate Control type Channel Net weight Dimension (L×W×H) ELECTRICAL DATA Voltage Frequency Max. power Motor External inputs Remote control Safety





185601-01(02) Buller 600 - DSP The included ergonomic dispenser facilitates easy dispensing with a single click, refer to P.105.

Buller 600
1 ~ 600 rpm
1 %
1950 mL/min
Digital, variable-speed
1
5.5 Kg
17 x 33 x 24 cm
100-240V
50 / 60Hz
80W
Step Motor
0 ~ 5V / 4 ~ 20mA / 0 ~ 10kHz
RS 232
Fuse

* Each unit includes a normal flow rate pump head and a silicone tube.



Oil Free Vacuum Pump / Compressor



Features

> 2-in-1 machine Rocker 430 works as both vacuum pump and compressor. Equipped with gauges and regulators for easy monitoring and adjusting the vacuum level or delivery pressure.

Oil-free & care-free

Rocker pumps are driven by piston that needs no lubricant, making them maintenance-free and oil-mist-free.

- ▶ Prote[™] overflow protection Equipped with Prote[™] overflow protection to prevent liquid from being sucked into the pump.
- Overheat protection

All Rocker pumps are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

- Moisture trap with filter cartridge Filter cartridge filters particles and moisture to ensure air cleanness of both inlet and supply.
- International certification CE certification IP 30 protection **RoHS** certification
- Two-Year Warranty

Applications

- ► Vacuum filtration
- Microbiological test
- Suspended solid test
- Air sampling
- Pressure filtration

Ordering Information

167430-11(22)

Rocker 430, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Rocker 430			
PERFORMANCE DATA				
Max. vacuum	145 mbar abs.			
Max. pressure	80 psig			
Max. flow rate	34 L/min @60Hz	28 L/min @50Hz		
Hose barb	ID8			
Noise level	52 dB			
Net weight	5.5 Kg			
Dimension (LxWxH)	25 x 24 x 20 cm			
ELECTRICAL DATA				
Voltage	110V	220V		
Frequency	50 / 60Hz			
Max. power	147W (1/6 HP)	125W (1/6 HP)		
Max. current	1.5A	0.6A		
Safety	Overheat Protection			
OTHER DATA				
Equipped with	Vacuum regulator / Pressure regulator Overload Protection / Filter cartridge			

Oil Free Compressor

Features

Compact & care-free

Rocker oil-free compressors are compact in size, light in weight and oil-mist-free, making them the best pal in laboratory.

- Quieter & more stable Motor-driven transmission and vibration-proof assembly, making Rocker compressors much quieter and much stabler.
- Overheat protection All Rocker compressors are equipped

with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

► Air outlet filter Every Rocker compressor is equipped with filter cartridge at the air outlet to filter particles and moisture to supply

International certification CE certification CSA certification IP 30 protection

RoHS certification Two-Year Warranty

Applications

Aeration

clean air.

Pressure filtration

Ordering Information

167320-11(22) Rocker 320, Compressor AC110V, 60Hz (AC220V, 50Hz)

167420-11(22)

Rocker 420, Compressor AC110V, 60Hz (AC220V, 50Hz)





Specification Mode

Model
PERFORMANCE DATA
Max. pressure (w/o moist
Max. pressure (w/ moistu
Max. flow rate
Hose barb
Noise level
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Voltage
Frequency
Max. power
Max. current
Safety

Equipped with





Rocker 320

Rocker 420

	Rocker 320		Rocker 420		
ure trap)	90 psig		90 psig		
ire trap)	80 psig		80 psig		
	14 L/min @60Hz	12 L/min @50Hz	27 L/min @60Hz	25 L/min @50Hz	
	ID8		ID8		
	50 dB		52 dB		
	4.1 Kg		5.2 Kg		
	27 x 14 x 17 cm		30 x 14 x 17 cm		
	110V	220V	110V 220V		
	50 / 60Hz		50 / 60Hz		
	90W (1/8 HP)	85W (1/8 HP)	147W (1/6 HP)	125W (1/6 HP)	
	0.9A	0.4A	1.5A	0.6A	
	Overheat Protec	ction	Overheat Protection		
	Pressure regulat Filter cartridge	tor	Pressure regulator Filter cartridge		



Air Supply System



Features

Compact & care-free

Rocker oil-free compressors are compact in size, light in weight and oil-mist-free, making them the best pal in laboratory.

Quieter & more stable

Motor-driven transmission and vibrationproof assembly, making Rocker compressors much quieter and stabler.

Overheat protection

All Rocker compressors are equipped with overheat protection device that shuts down when overheated and resumes once cooled down, making the pumps safer and long-lasting.

Air outlet filter

Every Rocker series compressor is equipped with filter cartridge at the air outlet to filter particles and moisture to supply clean air.

International certification

CE certification CSA certification IP 30 protection **RoHS** certification

► Two-Year Warranty

Applications

- ► Fermenter
- Bioreactor
- Gas chromatograph

Ordering Information

167440-11(22)

Rocker 440, Air Supply System AC110V, 60Hz (AC220V, 50Hz)

167304-31

Auto stop switch, 60 ~ 80 psig



Specification

-						
Model		Rocker 440				
PERFORMANCE DATA						
Pressure range		40 ~ 60 psig	40 ~ 60 psig			
Max. flow rate (w	ı/o tank)	27 L/min @60Hz	25 L/min @50Hz			
Max. flow rate	20 psig	40 L/min @60Hz	40 L/min @50Hz			
Max. flow rate (w/ tank)	40 psig	52 L/min @60Hz	50 L/min @50Hz			
(W/ CATIK)	60 psig	65 L/min @60Hz	60 L/min @50Hz			
Hose barb		ID8				
Noise level		52 dB				
Net weight		8.4 Kg				
Dimension (LxW	/xH)	29 x 31 x 25 cm				
ELECTRICAL DAT	ΓA					
Voltage		110V 220V				
Frequency		50 / 60Hz				
Max. power		147W (1/6 HP)	125W (1/6 HP)			
Max. current		1.5A 0.6A				
Safety		Overheat Protection				
OTHER DATA						
Equipped with		Pressure regulator Filter cartridge				

* The pressure range can be regulated by replacing the auto stop switch.

Pump Accessories



nose barb								
Series Pump								
167300-20	167300-21	167300-63	167300-23	167300-24	167300-25	167800-25		
3/8 inch	5/16 inch	1/4 inch	3/16 inch	1/8 inch	5/16 inch	3/8 inch		
ID10	ID8	ID6	ID5	ID3	ID8	ID10		
1/4 PT	1/8 PT	1/8 PT	1/8 PT	1/8 PT	1/8 PT	1/4 PT		
	Series Pump 167300-20 3/8 inch ID10	Series Pump 167300-20 3/8 inch JD10	Series Pump 167300-20 167300-21 167300-63 3/8 inch 5/16 inch 1/4 inch ID10 ID8 ID6	Series Pump 167300-20 167300-21 167300-63 167300-23 3/8 inch 5/16 inch 1/4 inch 3/16 inch ID10 ID8 ID6 ID5	Series Pump 167300-20 167300-21 167300-63 167300-23 167300-24 3/8 inch 5/16 inch 1/4 inch 3/16 inch 1/8 inch ID10 ID8 ID6 ID5 ID3	Series Pump 167300-20 167300-21 167300-63 167300-23 167300-24 167300-25 3/8 inch 5/16 inch 1/4 inch 3/16 inch 1/8 inch 5/16 inch ID10 ID8 ID6 ID5 ID3 ID8 1/4 PT 1/8 PT 1/8 PT 1/8 PT 1/8 PT 1/8 PT		



1103C Dai	D			Moisture hap / v	acuum negulator	
Tanker Se	ries Pump					
Cat.No. :	187100-32	187100-31	187100-34	167301-06	169411-06	189300-06
Barb :	1/2 inch	3/8 inch	1/4 inch	For Rocker	For Chemker	For Rocker
	ID12	ID10	ID6	300/400/410/430	300/400/410/411	300C/400C/410C
Thread :	1/4 SAE	1/4 SAE	1/4 SAE	167801-06	169611-06	189900-06
				For Rocker	For Chemker	For Rocker
				900/910	600/610/611	900C/910C



440

For Rocker For Rocker 300/400/410 300C/400C/410C Max. 118 mm



1/4 SAE

Hose Barb

For Rocker

320/420/430





Chemical Resistant Hose Barb

ump
169300-20
3/8 inch
ID10
1/4 NPS







Moisture Trap / Vacuum Regulator





λ.	

Filter Cartridge

189300-37	167301-07	167801-07
For Rocker	For Rocker	For Rocker
300/400/410	300/400/410/430	900/910
300C/400C/410C	(with Prote [™] overflow protection)	(without Prote [™] overflow protection)
Max. 103 mm	•••••••••••••••••••••••••••••••••••••••	





one Tul	De		Universal Foo	ot Switch
0-38	199100-68	180300-68	167200-41	167200-41-1
12 mm	Ø 4.2 x 8 mm	Ø 8 x 14 mm	Momentary action	Maintained action
:100 cm	Length: 200 cm	Length: 200 cm		



LABORATORY FILTRATION

Filtration Apparatus Selection Guide PPSU / PES Filter Holder MF 3 Pro / MF 3a Pro / MF 5 Pro / MF 5a Pro

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

Filtration Apparatus

LF 30 / MF 31 SF 10 / SF 30 / SF 11 / SF 52 VF5/VF8/VF6/VF7 VF 3 / VF 12 / VF 14 / VF 20 / VF 21 VF 15 / VF 16 / Stream 3 / Stream 10 VFC 47 / SFC 142

Filtration System

Rocker 300 - LF 30 / Rocker 300 - MF 31 Rocker 300C - VF 12 / Chemker 300 - VF 12 / Lafil 300C - VF 12 Rocker 300C - VFC 47 / Rocker 400 - SFC 142 Lafil 300 - LF 30 / Lafil 300 - SF 10 Lafil 400 - LF 30 / Lafil 400 - SF 10

Filtration System

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

Manifold and Filtration System

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 MutilVac 310 - MS - T / MutilVac 610 - MS - T MutilVac 301 - MB - T / MutilVac 601 - MB - T

Rotary Manifold and Filtration System

SolarVac 600 - MS / SolarVac 600 - MB SolarVac 601 - MB / SolarVac 1201 - MB SolarVac 601 - MB - A / SolarVac 1201- MB - A SolarVac 601 - MB - T / SolarVac 1201 - MB - T Filtration Accessories

Filtration Apparatus Selection Guide SELECT THE BEST COMPONENTS

FOR YOUR NEEDS





* PPSU : Polyphenylsulfone, PES : Polyethersulfone







Manifold Selection Guide



Model: MultiVac 300 / 600 - MB Feature: SS316-made

Page **65** ►



Model: SolarVac 600 - MS / MB Feature: 60% space-saving

Page **73**

Page **74** ►



Model: SolarVac 601 / 1201 - MB Feature: Whole set for microbial analysis





ROCKER

9

SS 31(

Glass

Borosilicate



MF, Magnetic Filter Holder



MF 3 Pro MF 5 Pro MF 3a Pro MF 5a Pro

Features

- Magnetic seal enables one-handed operation and prevents membrane twisting.
- Compatible with various kinds of bottles and vacuum flasks.
- Membrane guide at support base helps position membrane easily.
- ▶ Forceps access points on support base help retrieve membrane without damage.
- ▶ MF Pro filter holders are made of PPSU, offering better chemical and heat resistance compared to PES, ensuring greater durability.
- ▶ Volume error \leq 2.5% at Max. graduation.
- ▶ International certification : RoHS certification

Recommended for applications that require frequent autoclaves in pharmaceutical and biotech labs.

Specification

Material	MF 3 Pro / MF 5 Pro	MF 3a Pro / MF 5a Pro
Funnel	PPSU	PPSU
Support base	PPSU	PPSU
Membrane support	PPSU	PPSU
Funnel lid	PP	PP
Hose barb	PPSU	PPSU
Cap of lid	Silicone	Silicone
Specification		
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
Hose barb	ID4 ~ ID8	ID4 ~ ID8
Graduated increment	50 mL	50 mL



	-				
MF 3 I	MF 3 Pro, Magnetic Filter Holder (300 mL) 200300-01-P				
MF 5 I	Pro, Magnetic Filter Holder (500 mL)	200500-01-P			
1	PP lid kit	200300-36			
2	PPSU magnetic funnel, 300 mL	200300-30-P			
	PPSU magnetic funnel, 500 mL	200500-30-P			
3	PPSU magnetic support base	200300-32-P			
4	Silicone stopper (No.8)	167110-16			
MF 3a	MF 3a Pro, Magnetic Filter Holder (300 mL) 200310-01-P				
MF 5a	Pro, Magnetic Filter Holder (500 mL)	200510-01-P			
1	PP lid kit	200300-36			
2	PPSU magnetic funnel, 300 mL	200300-30-P			
	PPSU magnetic funnel, 500 mL	200500-30-P			
3	PPSU magnetic support base (short)	200310-32-P			
	* PPSU: Polyphenylsulfone				

MF, Magnetic Filter Holder



MF 5a

MF 3a



Features

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
Cap of lid	Silicone	Silicone

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
Hose barb	ID4 ~ ID8	ID4 ~ ID8
Graduated increment	50 mL	50 mL



MF 3a / MF 5a



P

MF 3a Pro / MF 5a Pro

MF 3 Pro / MF 5 Pro

P

ROCKER









- Magnetic seal enables one-handed operation and prevents membrane twisting. Compatible with various kinds of bottles and vacuum flasks.
- Membrane guide at support base helps position membrane easily.
- ▶ Forceps access points on support base help retrieve membrane without damage.
- > PES construction resists a wide range of chemicals and heat, ensuring durability.
- ▶ Volume error \leq 2.5% at Max. graduation.
- International certification : RoHS certification

Recommended for applications that require less frequent autoclaves in general and environmental labs.

MF 3,	Magnetic Filter Holder (300 mL)	200300-01	
MF 5,	Magnetic Filter Holder (500 mL)	200500-01	
1	PP lid kit	200300-36	
2	PES magnetic funnel, 300 mL	200300-30	
	PES magnetic funnel, 500 mL	200500-30	
3	PES magnetic support base	200300-32	
4 Silicone stopper (No.8) 167110-16			
MF 3a	, Magnetic Filter Holder (300 mL)	200310-01	
MF 5a	, Magnetic Filter Holder (500 mL)	200510-01	
1	PP lid kit	200300-36	
2	PES magnetic funnel, 300 mL	200300-30	
	PES magnetic funnel, 500 mL	200500-30	
3	PES magnetic support base (short)	200310-32	
	* PES: Polyethersulfone		



LF, Spin-Lock Filter Holder





LF 5a

LF 3a

Features

- Clamp-free spin-lock design.
- Shock-proof and heat-resistant (180°C) PES funnel.
- Groove design on membrane support facilitates filtration speed.
- Durable & reusable, less waste and more cost-efficient.
- ▶ LF 3 / 5 : Fits most of lab flasks with No.8 silicone stopper.
- ▶ LF 3a / 5a : Fits GL45 laboratory glass bottles.

Recommended for applications that require less frequent autoclaves in general and environmental labs.

C / 1bar / 20

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utoclavab

Specification

-		
Material	LF 3 / LF 5	LF 3a / LF 5a
Funnel	PES	PES
Support base	PC	PC
Membrane support	PP	PP
Funnel lid	PP	PP
Cap of lid	Silicone	Silicone
Specification		
Funnel capacity	300 mL / 500 mL	300 mL / 500 mL
Filter diameter	47 mm / 50 mm	47 mm / 50 mm
Effective filtration area	12.5 cm ²	12.5 cm ²
Hose barb	-	ID8

Ordering Information

LF 3,	Spin-Lock Filter Holder (300 mL)	197000-01
LF 5,	Spin-Lock Filter Holder (500 mL)	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.8)	167110-16
LF 3a	a, Spin-Lock Filter Holder (300 mL)	197000-02
LF 5a	a, Spin-Lock Filter Holder (500 mL)	197000-07
1	LF 3a, PP lid kit	197000-36
	LF 5a, PP lid kit	200300-36
2	PES funnel, 300 mL	197000-34
	PES funnel, 500 mL	197000-56
3	Storage bottle adaptor	197000-38
	* PES: Polyethersulfone	



SF, Stainless steel funnel lid (optional)





Features

Two-Year Warranty

Specification

Material Funnel Support base Membrane supp Funnel lid

Specification

Funnel capacity Filter diameter Effective filtration Graduated increm











3







Clamp-free spin-lock design.

▶ Precise laser-marking ensures ≤ 2.5% volume error at max. graduation.

• Membrane guide at the support base helps position membrane easily.

▶ Forceps access points on support base help retrieve membrane without damage.

SS316 funnel is shatterproof, durable and can be fast sterilized by flame.

Recommended for microbiological applications that require fast flame sterilization.

	SF 1	SF 3	SF 5
	SS316	SS316	SS316
	SS316	SS316	SS316
oort	SS316	SS316	SS316
	SS316	SS316	SS316

	100 mL	300 mL	500 mL
	47 mm	47 mm	47 mm
on area	11.6 cm ²	11.6 cm ²	11.6 cm ²
ement	50 / 100 mL	100 / 250 / 300 mL	250 / 500 mL

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



PES Filtration Apparatus









Features

- ▶ LF 30 : A safe and sturdy combination of clamp-free spin-lock PES filter holder, and bottle with built-in overflow protection.
- MF 31 : Combination of a glass flask with direct-drain, spill-proof silicone sucker, and a magnetic filter holder. Allows simple single-hand operation.

Applications

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

Specification

2

-3

- 5

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Material	LF 30	MF 31
Funnel	PES	PES
Support base	PC	PES
Membrane support	PP	PES
Receiver flask	PC	Borosilicate glass
Drain hose	-	Rubber (non-autoclavable)

Specification			
Funnel capacity	300 mL	300 mL	
Flask capacity	1200 mL	1000 mL	
Filter diameter	47 mm / 50 mm	47 mm	
Effective filtration area	12.5 cm ²	13.1 cm ²	
Hose barb	ID8	ID8	
Drain device	-	Yes	
Overflow protection	Yes	-	

Ordering Information

LF 30), Filtration Set	197010-30
1	PP lid kit	197000-36
2	PES funnel, 300 mL	197000-34
3	PC support base	197000-35
4	PC cover set	197000-32-PC
5	PC bottle, 1200 mL	197000-31-PC
MF 3	1, Filtration Set	200320-31
1	PP lid kit for magnetic funnel	200300-36
2	PES magnetic funnel, 300 mL	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	167200-45

Stainless Steel Filtration Apparatus



Features

Applications

Specification

Material Funnel Support base Membrane supp Receiver bottle

Specification

Funnel capacity Bottle capacity Filter diameter Effective filtratio Hose barb Overflow protect



SF 30

ROCKER



- ▶ Handy, clamp-free SF filter holder with spin-lock design.
- SS316 funnel is shatterproof, durable and can be fast sterilized by flame.
- Built-in overflow protection makes filtration easier and care-free.
- Two-Year Warranty (SF Filter Holder)

General filtration, such as medium purification, microbiological test etc.

	SF 10	SF 30
	SS316	SS316
	SS316	SS316
port	SS316	SS316
	PC	PC

/	100 mL	300 mL
	1200 mL	1200 mL
	47 mm	47 mm
on area	11.6 cm ²	11.6 cm ²
	ID8	ID8
ction	Yes	Yes

SF 10), Stainless Steel Filtration Set	197010-32
1	Stainless steel funnel, 100 mL	180100-01
2	Stainless steel support screen	180100-31
3	Stainless steel support base	180100-00
4	Silicone stopper (No.16)	167110-17
5	PC cover set	197000-32-PC
6	PC bottle, 1200 mL	197000-31-PC
SF 30), Stainless Steel Filtration Set	197010-33
SF 30	0, Stainless Steel Filtration Set Stainless steel funnel, 300 mL	197010-33 180100-03
1	Stainless steel funnel, 300 mL	180100-03
1 2	Stainless steel funnel, 300 mL Stainless steel support screen	180100-03 180100-31
1 2 3	Stainless steel funnel, 300 mL Stainless steel support screen Stainless steel support base	180100-03 180100-31 180100-00



Stainless Steel Filtration Apparatus



25 mm Microanalysis **Glass Filtration Apparatus**

VF 8





Features

- Fast and stable installation with the filter holder's clamp-free spin-lock design.
- SS316 funnel is shatterproof, durable and can be fast sterilized by flame.
- Drains the filtrate away directly without removing the tubes.
- Two-Year Warranty (SF Filter Holder)

Applications

General filtration, such as medium purification, microbiological test, etc.

Specification

Material	SF 11	SF 52
Funnel	SS316	SS316
Support base	SS316	SS316
Membrane support	SS316	SS316
Stopper	Silicone rubber	Silicone rubber
Receiver flask	Borosilicate glass	Borosilicate glass
Drain hose	Rubber (non-autoclavable)	Rubber (non-autoclavable)

Specification

— 1

— 2

— 3

Specification		
Funnel capacity	100 mL	500 mL
Flask capacity	1000 mL	2000 mL
Filter diameter	47 mm	47 mm
Effective filtration area	11.6 cm ²	11.6 cm ²
Hose barb	ID8	ID8
Drain device	Yes	Yes

* The flask withstands nearly full vacuum for use in vacuum filtration.

Ordering Information

SF 1	1, Stainless Steel Filtration Set	167200-02
SF 1,	Stainless Steel Filter Holder (100 mL)	180100-10
1	Stainless steel funnel, 100 mL	180100-01
2	Stainless steel support screen	180100-31
3	Stainless steel support base	180100-00
4	Silicone stopper (No.8)	167110-16
5	Receiver flask with drain, 1000 mL	167300-08
	(with screwthread connector)	
6	Silicone fixing sucker	167200-45
0	Silicone fixing sucker	107200-45
-	2, Stainless Steel Filtration Set	167200-43
SF 52	-	
SF 52	2, Stainless Steel Filtration Set	167200-11
SF 5; SF 5;	2, Stainless Steel Filtration Set Stainless Steel Filter Holder (500 mL)	167200-11 180100-50
SF 5: SF 5; 1	2, Stainless Steel Filtration Set Stainless Steel Filter Holder (500 mL) Stainless steel funnel, 500 mL	167200-11 180100-50 180100-05
SF 52 SF 52 1 2	2, Stainless Steel Filtration Set Stainless Steel Filter Holder (500 mL) Stainless steel funnel, 500 mL Stainless steel support screen	167200-11 180100-50 180100-05 180100-31
SF 5. SF 5, 1 2 3	2, Stainless Steel Filtration Set Stainless Steel Filter Holder (500 mL) Stainless steel funnel, 500 mL Stainless steel support screen Stainless steel support base	167200-11 180100-50 180100-05 180100-31 180100-00



Features

Applications

Small-volume sample filtration for biological or particulate contamination analysis.

Specification

Material	VF 5	VF 8
Funnel	Borosilicate glass	Borosilicate glass
Support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	SS screen with PTFE gasket
Clamp	Aluminum	Aluminum
Stopper	Silicone rubber	Silicone rubber
Receiver flask	Borosilicate glass	Borosilicate glass
Specification		
Funnel capacity	15 mL	15 mL
Flask capacity	125 mL	125 mL
Filter diameter	25 mm	25 mm
Effective filtration area	3.1 cm ²	2.5 cm ²

Funnel capacity
Flask capacity
Filter diameter
Effective filtration
Hose barb



SF 52

ROCKER



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Accurate graduations enable precise sample addition.

Membrane supports are available in sintered glass or stainless steel.

* The flask withstands nearly full vacuum for use in vacuum filtration.

ID8

Ordering Information

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

ID8



VF 6

47 mm Glass Filtration Apparatus



Features

- > Quick and easy disconnection with screwthread connector at side arm.
- Equipped with spill-proof silicone fixing sucker.

Applications

Solvent purification and general filtration such as microbiology, suspended solid analysis, etc.

Specification

Material	VF 6	VF 7
Funnel	Borosilicate glass	Borosilicate glass
Support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	SS screen with PTFE gasket
Clamp	Aluminum	Aluminum
Stopper	Silicone rubber	Silicone rubber
Receiver flask	Borosilicate glass	Borosilicate glass
Specification		
Funnel capacity	300 mL	300 mL
Flask capacity	1000 mL	1000 mL
Filter diameter	47 mm / 50 mm	47 mm / 50 mm
Effective filtration area	12.6 cm ²	9.6 cm ²
Hose barb	ID8	ID8
* The fleel		Eltration

* The flask withstands nearly full vacuum for use in vacuum filtration.

Ordering Information

-1 -2 -3 -4	-1 -2 -3 -4 -5 -6
VF 6	
	VF 7

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

47 mm Glass Filtration Apparatus



Features

- Applications

and AA analysis.

Specification



Receiver flask Specification Funnel capacity Flask capacity

Filter diameter Effective filtration Hose barb



VF 14



- ▶ Filter and store directly in GL45 bottle. No cross-contamination.
- Membrane supports are available in sintered glass or stainless steel.

Purification of organic, corrosive liquid such as solvent, mobile phase for HPLC, GC

Material	VF 12	VF 14
Funnel	Borosilicate glass	Borosilicate glass
Support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	SS screen with PTFE gasket
Clamp	Aluminum	Aluminum
Filtration adaptor	PP	PP
Receiver flask	Borosilicate glass	Borosilicate glass
Specification		
Funnel capacity	300 mL	300 mL
Flask capacity	1000 mL	1000 mL
Filter diameter	47 mm / 50 mm	47 mm / 50 mm
Effective filtration area	12.6 cm ²	9.6 cm ²
Hose barb	ID 4 ~ ID8	ID 4 ~ ID8

* The flask withstands nearly full vacuum for use in vacuum filtration.

VF 1.	2, 47 mm Glass Filtration Set	167200-12
Glass	s Filter Holder (300 mL)	167120-31
1	Glass funnel, 300 mL	167210-03
2	Aluminum clamp, 47 mm	167240-01
3	Sintered glass support base, 47 mm	167230-03
	(Including No.8 silicone stopper)	
4	GL45 filtration adaptor	197000-65
5	Laboratory glass bottle, 1000 mL	197000-59
VF 14, 47 mm Glass Filtration Set 1		167200-14
Glass	s Filter Holder (300 mL)	167120-33
1	Glass funnel, 300 mL	167210-03
2	Aluminum clamp, 47 mm	167240-01
3	SS support screen, 47 mm	167230-31
4	PTFE gasket, 47 mm	167230-41
5	Glass support base, 47 mm	167230-07
	(including No.8 silicone stopper)	
6	GL45 filtration adaptor	197000-65
7	Laboratory glass bottle, 1000 mL	197000-59



47 mm Glass Filtration Apparatus





Features

- Borosilicate glass-made filter holder and flask provides extraordinary chemical resistance.
- Equipped with spill-proof silicone fixing sucker.

Applications

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

Specification

Material	VF 3
Funnel	Borosilicate glass
Support base	Borosilicate glass
Membrane support	Sintered glass
Clamp	Aluminum
Receiver flask	Borosilicate glass

Constitution

Specification	
Funnel capacity	300 mL
Flask capacity	1000 mL
Filter diameter	47 mm / 50 mm
Effective filtration area	12.6 cm ²
Hose barb	ID8

* The flask withstands nearly full vacuum for use in vacuum filtration.

Ordering Information

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

47 mm Glass Filtration Apparatus



Features

Applications

extraction of oil in water.

Specification

Material Funnel Support base Membrane suppor Clamp Evaporating flask

Specification

Funnel capacity
Flask capacity
Filter diameter
Effective filtration
Hose barb
Joint size
* Filtration cots and

* Filtration sets and flasks are available with various sizes and joints, such as TS 29/38.



VF 21





45



▶ Filtration, concentration and evaporation - all in one bottle.

Less transfer, less sample loss.

Chemical experiments that require both filtration and concentration, such as

	VF 20	VF 21
	Borosilicate glass	Borosilicate glass
	Borosilicate glass	Borosilicate glass
ort	Sintered glass	SS screen with PTFE gasket
	Aluminum	Aluminum
	Borosilicate glass	Borosilicate glass
	300 mL	300 mL
	1000 mL	1000 mL
	47 mm / 50 mm	47 mm / 50 mm
area	12.6 cm ²	9.6 cm ²
	ID8	ID8
	TS 24/40	TS 24/40
~ .		

VF 20	0, 47 mm Glass Filtration Set for Evaporation	167200-20
Glass	s Filter Holder (300 mL)	167120-31-1
1	Glass funnel, 300 mL	167210-03
2	Aluminum clamp, 47 mm	167240-01
3	Sintered glass support base, 47 mm	167230-03-1
	(for TS 24/40 joint)	
4	Evaporating flask, 1000 mL, TS 24/40	167250-10
VF 2	1, 47 mm Glass Filtration Set for Evaporation	167200-21
Glass	s Filter Holder (300 mL)	167120-33-1
Glas: 1	s Filter Holder (300 mL) Glass funnel, 300 mL	
	· · · · · · · · · · · · · · · · · · ·	167120-33-1
1	Glass funnel, 300 mL	167120-33-1 167210-03
1 2	Glass funnel, 300 mL Aluminum clamp, 47 mm	167120-33-1 167210-03 167240-01
1 2 3	Glass funnel, 300 mL Aluminum clamp, 47 mm SS support screen, 47 mm	167120-33-1 167210-03 167240-01 167230-31
1 2 3 4	Glass funnel, 300 mL Aluminum clamp, 47 mm SS support screen, 47 mm PTFE gasket, 47 mm	167120-33-1 167210-03 167240-01 167230-31 167230-41

90 mm Glass Filtration Apparatus



VF 15



Features

▶ Filter and store directly in GL45 bottle. No cross-contamination.

Applications

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

* VF 15 membrane support may not withstand strong acids. Refer to the chemical compatibility chart before use.

* VF 17 is similar to VF 16 but features a 3500 mL laboratory glass bottle.

Specification

Material	VF 15	VF 16
Funnel	Borosilicate glass	Borosilicate glass
Support base	Borosilicate glass	Borosilicate glass
Membrane support	SS screen with PTFE gasket	Sintered glass
Clamp	Aluminum	Aluminum
Filtration adaptor	PP	PP
Storage bottle	Borosilicate glass	Borosilicate glass
Specification		
Funnel capacity	1000 mL	1000 mL
Bottle capacity	5000 mL	5000 mL
Filter diameter	90 mm	90 mm
Effective filtration area	45.5 cm ²	45.5 cm ²
Hose barb	ID4 ~ ID8	ID4 ~ ID8

* The bottle withstands nearly full vacuum for use in vacuum filtration.

Ordering Information

Glass Filter Holder (1000 mL) 167200-15				
Glass Filter Holder (1000 mL) 167120-37				
1	Glass funnel, 1000 mL 167210-			
2	Aluminum clamp, 90 mm 16724			
3	SS support screen, 90 mm	167230-33-1		
4	PTFE gasket, 90 mm	167230-43		
5	Glass support base, 90 mm	167230-10		
	(Including No.8 silicone stopper)			
6	GL45 filtration adaptor	197000-65		
7	Laboratory glass bottle, 5000 mL	197000-55		
VF 1	6, 90 mm Glass Filtration Set	167200-16		
Glas	s Filter Holder (1000 mL)	167120-38		
1	Glass funnel, 1000 mL	167210-10		
2	Aluminum clamp, 90 mm	167240-02		
3	Sintered glass support base, 90 mm 167230-11			
	(Including No.8 silicone stopper)			
4	GL45 filtration adaptor	197000-65		
5	Laboratory glass bottle, 5000 mL	197000-55		



Stream 3 / Stream 10

1.00

Stream, Continuous Filtration System



Applications

Large-volume liquid purification and filtration, such as solvents used in HPLC, GC, AA analysis, and culture medium purification.

Specification

Material	Stream 3	Stream 10	
Continuous filtration kit	PTFE, Silicone	PTFE, Silicone	
Funnel	Borosilicate glass	Borosilicate glass	
Support base	Borosilicate glass	Borosilicate glass	
Membrane support	Sintered glass	Sintered glass	
Clamp	Aluminum	Aluminum	
Filtration adaptor	PP	PP	
Specification			
Funnel capacity	300 mL	1000 mL	
Filter diameter	47 mm / 50 mm	90 mm	
Effective filtration area	13.2 cm ²	45.5 cm ²	
Hose barb	ID4 ~ ID8	ID4 ~ ID8	

Funnel capacity
Filter diameter
Effective filtratio
Hose barb





— 5



- A smart kit enables continuous sample feeding. No more repetitive pouring tasks.
- Equipped with a sinker that misses no drops till the end.
- ▶ Filtration adaptor can be connected to all GL45 bottles.

eam 3, Continuous Filter Holder (300 mL)	167200-S3
Continuous filtration kit for 300 mL glass filter holder	167210-36
Glass funnel, 300 mL	167210-03
Aluminum clamp, 47 mm	167240-01
Sintered glass support base, 47 mm	167230-03
(Including No.8 silicone stopper)	
GL45 filtration adaptor	197000-65
eam 10, Continuous Filter Holder (1000 mL)	167200-S10
eam 10, Continuous Filter Holder (1000 mL) Continuous filtration kit for 1000 mL glass filter holder	
Continuous filtration kit for 1000 mL glass filter holder	167210-35
Continuous filtration kit for 1000 mL glass filter holder Glass funnel, 1000 mL	167210-35 167210-10
Continuous filtration kit for 1000 mL glass filter holder Glass funnel, 1000 mL Aluminum clamp, 90 mm	167210-35 167210-10 167240-02



47 mm Continuous Filter Holder



VFC 47



Rocker 300C - VFC 47 refer to P.53



VFC 47

49

Features

- Enables continuous sample feeding. No more repetitive pouring tasks.
- Equipped with a sinker that misses no drops till the end.
- ▶ Borosilicate glass construction offers extraordinary chemical resistance.

Applications

Large-volume liquid purification and degassing, such as solvents used in HPLC, GC, AA analysis.

Specification

Material	VFC 47
Cover	Borosilicate glass
Support base	Borosilicate glass
Membrane support	Sintered glass
Inlet hose barb	PP, Silicone
Clamp	Aluminum
Tube	Silicone
Sinker	PTFE
Specification	
Filter diameter	47 / 50 mm
Effective filtration area	12.6 cm ²
Inlet hose barb	ID8
Flask capacity	-

Ordering Information

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VFC 47, Continuous Filter Holder 167200-S4					
1	Glass cover	167210-01			
2	Aluminum clamp, 47 mm	167240-01			
3	Sintered glass support base, 47 mm	167230-03			
	(Including No.8 silicone stopper)				
4	Silicone tube, Ø 6 x 12 mm, 100 cm	167200-38			
5	PTFE sinker	167210-36-05			
Opti	onal				
GL4	5 filtration adaptor	197100-65			
Laboratory glass bottle, 500 mL 197000-58					
Laboratory glass bottle, 1000 mL 197000-59					
Rocker 300C - VFC 47, Continuous Solvent Purification 189303-11(22) System, AC110V, 60Hz (AC220V, 50Hz)					

142 mm **Continuous Filter Holder**



Rocker 400 - SFC 142

refer to P.54

3

5

6

SFC 142



- pouring tasks.

- ► Two-Year Warranty

Applications

Large-volume liquid purification and filtration, such as medium purification, wine filtration, etc.

Specification

Material	SFC 142
Cover	SS304
Support base	SS304
Membrane support	SS304
Inlet hose barb	SS304
Tube	Silicone
Sinker	SS304
Specification	
Filter diameter	142 mm

Effective filtration Inlet hose barb Flask capacity

Ordering Information

SFC 142, Conti

- Stainless 1 2 Stainless Stainless 3
- Silicone 4 Silicone 5
- Stainless 6
- Optional
- GL45 filtration Laboratory gla Laboratory gla PALL Supor[™] P 0.2 µm, tabbed PALL Nylaflo™ 0.2 µm, 25/PK **RONE PES mem**
- RONE Nylon me Rocker 400 - SF
- System, AC110





Enables continuous sample feeding for larger volume. No more repetitive

- Equipped with sinker that misses no drops till the ends.
- Stainless steel construction is durable and reusable.

n area	124.6 cm ²
	ID8
	-

inuous Filter Holder	180200-S1
s steel cover	180200-11
s steel support screen, 142 mm	180200-31
s steel support base, 142 mm	180200-00
stopper (No.8)	167110-16-1
tube, Ø 8 x 14 mm, 200 cm	180300-68
s steel sinker	180200-32
adaptor	107100 65
ass bottle, 10 L	107000 60
ass bottle, 20 L	197000-70
PES membrane disc filters, 142 mm,	
d, 25/PK	
Nylon membrane disc filters, 142 mm,	201PAL66604
mbrane, 142 mm, 0.2 μm, 50/PK	201PES-142-022-50
nembrane, 142 mm, 0.2 μm, 50/PK	201NY-142-022-50
FC 142, Continuous Vacuum Filtration	167405-11(22)
)V, 60Hz (AC220V, 50Hz)	





Features

► Oil-free & care-free

Rocker pumps are driven by piston that needs no lubricant, making them maintenance-free and oil-mist-free.

Clamp-free with spin-lock

LF 30 bottles are equipped with LF filter holders that can be mounted with revolutionary spin-lock and totally clamp-free.

Clamp-free with magnet

MF 31 bottles are equipped with patented magnetic MF filter holders. Its strong magnetic seal enables one-hand and clamp-free operation.

Drain out directly MF 31 can drain the filtrate away directly without disassembly.

International certification CE certification CSA certification (Rocker 300) IP 30 protection (Rocker 300) RoHS certification (Rocker 300)

Two-Year Warranty (Rocker 300)

Applications

- Suspended solid test
- Vacuum filtration

Ordering Information 167305-11(22)

Rocker 300 - LF 30, Vacuum Filtration System, complete set includes : * Rocker 300, Vacuum Pump * LF 30, Filtration Set

* Silicone tube

167311-11(22)

Rocker 300 - MF 31, Vacuum Filtration System, complete set includes : * Rocker 300, Vacuum Pump

* MF 31, Filtration Set

* Silicone tube

167300-37

Hoop holder for Rocker 300 - LF 30 / SF 30 / SF 10





Specification

Model	Rocker 300 - LF 30		Rocker 300 - MF 31		
PERFORMANCE DATA					
Max. vacuum	99 mbar abs.		99 mbar abs.		
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz	
Noise level	50 dB				
Net weight	4.7 Kg		4.7 Kg		
Dimension (LxWxH)	28 x 25 x 39 cm		50 x 16 x 43 cm		
ELECTRICAL DATA					
Voltage	110V	220V	110V	220V	
Frequency	50 / 60Hz		50/60Hz		
Max. power	65W (1/8 HP)	60W (1/8 HP)	65W (1/8 HP)	60W (1/8 HP)	
Max. current	0.7A	0.3A	0.7A	0.3A	
Safety	Overheat Protection		eat Protection		
FILTRATION APPARATU	JS				
Filter holder	300 mL		300 mL		
Receiver bottle	1200 mL		1000 mL (with drain)		
Filter diameter	47 mm / 50 mm		47 mm		
Equipped with Vacuum regulator, Overlfow protection					

Solvent Purification System

Features

Oil-free & care-free

Rocker 300C / Chemker 300/ Lafil 300C pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.

Chemical resistant

Rocker 300C / Chemker 300 / Lafil 300C -VF12 are resistant in different degrees to wide range of chemicals and solvents.

One-step filtration

Filter and store directly in all GL45 bottles to prevent repetitive transfers and crosscontamination.

International certification

CE certification IP 30 protection (Rocker 300C) **RoHS** certification (Rocker 300C, Chemker 300)

One-Year Warranty (Rocker 300C / Chemker 300 / Lafil 300C)

Applications

Solvent purification

- HPLC mobile phase purification
- Vacuum filtration

Ordering Information

189302-11(22)

Rocker 300C - VF 12, Solvent Purification System, complete set includes :

* Rocker 300C, Vacuum Pump

- * VF 12, Filtration Set
- * Silicone tube

169302-11(22)

Chemker 300 - VF 12, Solvent Purification System, complete set includes :

* Chemker 300, Vacuum Pump * VF 12, Filtration Set

* Silicone tube

197331-11(22)

Lafil 300C - VF 12, Solvent Purification System, complete set includes : * Lafil 300C, Vacuum Pump * VF 12, Filtration Set * Silicone tube

197330-11(22)

Lafil 300C, PTFE Coated Chemical **Resistant Vacuum Pump** AC110V, 60Hz (AC220V, 50Hz)

189300-37

Hoop holder for Rocker 300C - VF12



Chemker 300 - VF 12

Specification

Model

PERFORMANCE DATA
Max. vacuum
Max. flow rate
Noise level
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Voltage
Frequency
Max. power
Max. current
Safety
FILTRATION APPARAT
Filter holder
Storage bottle
Filter diameter
Equipped with







* Not resistant to strong acid and alkali.





Rocker 300C - VF 12		Chemker 300 - VF 12		Lafil 300C - VF 12	
99 mbar abs		99 mbar abs.		99 mbar abs.	
23 L/min @60Hz	20 L/min @50Hz	20 L/min @60Hz	18 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz
50 dB		50 dB		50 dB	
5.3 Kg		6.1 Kg		6.7 Kg	
28 x 25 x 44 cm 25 x 21 x 44 cm		cm	34 x 24 x 50 cm		
110V	220V	110V	220V	110V	220V
50 / 60Hz		50 / 60Hz		50 / 60Hz	
65W (1/8HP)	60W(1/8HP)	70W (1/8HP)	60W(1/8HP)	65W (1/8HP)	60W(1/8HP)
0.7A	0.3A	0.8A	0.4A	0.7A	0.3A
Overheat Pro	otection				
US					
300 mL					
1000 mL					
47 mm / 50 mm					
Vacuum regulator		-		Vacuum regu	ulator



Continuous Vacuum Filtration System

Features

Ideal for large volume clarification

parts are made of SS304 and silicone, making them shatterproof and durable. * For solvent filtration, please use the Rocker 400C vacuum pump.

locking mechanism to prevent tipping during operation.

that needs no lubricant, making it maintenance-free and oil-mist-free.

- Two-Year Warranty
- Wine filtration

Ordering Information

Rocker 400 - SFC 142, Continuous Vacuum Filtration System, complete set includes:

- * SFC 142, Continuous Filter Holder
- * GL45 filtration adaptor
- * Laboratory glass bottle, 10L

197000-69

Laboratory glass bottle, 10L

189400-11(22)

Rocker 400C, PTFE Coated Chemical

SFC 142 is designed for efficient liquid purification and clarification. All wetted

Laboratory Filtration / Filtration System

No more repetitive tasks

Rocker 400 - SFC 142 enables continuous sample feeding with direct storage in GL45 bottles, eliminating pouring and transferring steps. No crosscontamination risks.

Clamp-free operation SFC 142 is gravity-sealed with an additional

Oil-free & care-free

Rocker 400 pump is driven by piston

Aspiration till the last drop Equipped with a sinker to ensure minimal residue, leaving no drops behind.

International certification

CE certification (Rocker 400) IP 30 protection (Rocker 400) RoHS certification (Rocker 400)

Applications

- ► HPLC solvent purification and degassing
- Microbial and contaminants removal

167405-11(22)

* Rocker 400, Vacuum Pump

197000-70

Laboratory glass bottle, 20L

Resistant Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Rocker 300C - VFC 47	
PERFORMANCE DATA		
Max. vacuum	99 mbar abs.	
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz
Noise level	50 dB	
Net weight	5.2 Kg	
Dimension (LxWxH)	28 x 25 x 37 cm	
ELECTRICAL DATA		
Voltage	110V	220V
Frequency	50/60Hz	
Max. power	65W (1/8 HP)	60W (1/8 HP)
Max. current	0.7A	0.3A
Safety	Overheat Protection	
FILTRATION APPARATUS		
Filter holder	VFC 47	
Storage bottle	1000 mL	
Filter diameter	47 mm / 50 mm	
Equipped with	Vacuum regulator, Silicon tube, Sink	er

ROCKER

Features

Ideal for HPLC solvent purification VFC 47 is a perfect kit for HPLC mobile phase purification. All wetted parts are made of borosilicate glass, PP, PTFE and silicone, ensuring resistance to common HPLC solvents.

No more repetitive tasks

Rocker 300C - VFC 47 enables continuous sample feeding with direct storage in GL45 bottles, eliminating pouring and transferring steps. No crosscontamination risks.

Oil-free & care-free

Rocker 300C pump is driven by diaphragm that needs no lubricant, making it maintenance-free and oil-mistfree.

Aspiration till the last drop

Equipped with a sinker to ensure minimal residue, leaving no drops behind.

International certification CE certification (Rocker 300C) IP 30 protection (Rocker 300C) RoHS certification (Rocker 300C)

One-Year Warranty (Rocker 300C)

Applications

- ► HPLC mobile phase purification
- Solvent purification and degassing
- Microbial and contaminants removal

Ordering Information 189303-11(22)

Rocker 300C - VFC 47, Continuous Solvent Purification System, complete set includes: * Rocker 300C, Vacuum Pump

- * VFC 47, Continuous Filter Holder
- * GL45 filtration adaptor
- * Laboratory glass bottle, 1000 mL
- * Silicone tube
- 197000-59 Laboratory glass bottle, 1000 mL

197000-58

Laboratory glass bottle, 500 mL

53



Voltage Frequency Max. power Max. current

Dimension (LxWxH)

Specification

Model

Max. vacuum

Max. flow rate

Noise level

Net weight

- Safety
- Filter holder
- Storage bottle
- Filter diameter
- Equipped with





	Rocker 400 - SFC 142	
A		
	99 mbar abs.	
	37 L/min @60Hz	34 L/min @50Hz
	52 dB	
	11.2 Kg	
	60 x 23 x 56 cm	
	110V	220V
	50/60Hz	
	100W (1/6 HP)	80W (1/6 HP)
	1.0A	0.4A
	Overheat Protection	
λTL	JS	
	SFC 142	
	10000 mL	
	142 mm	
	Vacuum regulator, Overlfow protect	ion, Silicon tube, Sinker





Features

Compact & safe

Lafil 300 filtration system integrates vacuum source, and all other filtration accessories into one single system. Save 50% bench space and stay safe with its tripping-proof and spill-proof fence-like platform.

Clamp-free with spin-lock

LF 30 and SF 10 bottles are equipped with filter holders that can be mounted with revolutionary spin-lock and be totally clamp-free.

Overflow protection

The PC waste bottle comes with a builtin overflow protection to keep the filtrate from overflowing when it is full.

Autoclavable and shatterproof

The waste bottle and filter holder are made of engineering plastics and SS316 stainless steel which are shatterproof, heat-resistant and autoclavable.

- International certification CE certification
- Two-Year Warranty (Lafil 300)

Applications

- Vacuum filtration
- Suspended solid test
- Microbiological test

Ordering Information

197301-11(22) Lafil 300 - LF 30, Vacuum Filtration System AC110V, 60Hz (AC220V, 50Hz)

197302-11(22)

Lafil 300 - SF 10, Vacuum Filtration System AC110V, 60Hz (AC220V, 50Hz)

197300-11(22)

Lafil 300, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

180100-11

Stainless steel funnel lid for SF funnel, 100 mL





Specification

Model	Lafil 300 - LF 30		Lafil 300 - SF 10	
PERFORMANCE DATA				
Max. vacuum	99 mbar abs.		99 mbar abs.	
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz
Noise level	50 dB			
Net weight	6.4 Kg		7.4 Kg	
Dimension (LxWxH)	34 x 24 x 44 cm		34 x 24 x 37 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50 / 60Hz		50/60Hz	
Max. power	65W (1/8 HP)	60W (1/8 HP)	65W (1/8 HP)	60W (1/8 HP)
Max. current	0.7A	0.3A	0.7A	0.3A
Safety	Overheat Protecti	on		
FILTRATION APPARATUS				
Filter holder	300 mL		100 mL	
Receiver bottle	1200 mL		1200 mL	
Filter diameter	47 mm / 50 mm		47 mm	
Equipped with	Vacuum regulato	r, Overlfow protect	ion	

Vacuum Filtration System

Features

Compact & safe

Lafil 400 filtration system integrates vacuum source, and all other filtration accessories into one single system. Save 50% bench space and stay safe with its tripping-proof and spill-proof fence-like platform.

Clamp-free with spin-lock

LF 30 and SF 10 bottles are equipped with filter holders that can be mounted with revolutionary spin-lock and be totally clamp-free.

Overflow protection

The PC waste bottle comes with a builtin overflow protection to keep the filtrate from overflowing when it is full.

Autoclavable and shatterproof The waste bottle and filter holder are

made of engineering plastics and SS316 stainless steel which are shatterproof, heat-resistant and autoclavable.

- International certification
- CE certification
- Two-Year Warranty (Lafil 400)

Applications

- Vacuum filtration
- Suspended solid test
- Microbiological test

Ordering Information

197401-11(22)

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

197402-11(22)

Lafil 400 - SF 10, Vacuum Filtration System, AC110V, 60Hz (AC220V, 50Hz) 197400-11(22)

Lafil 400, Vacuum Pump

AC110V, 60Hz (AC220V, 50Hz)

180100-11

Stainless steel funnel lid for SF funnel, 100 mL

Specification Model

PERFORMANCE DA

Max. vacuum Max. flow rate Noise level Net weight Dimension (LxWxH) ELECTRICAL DATA Voltage Frequency Max. power Max. current Safety Filter holder Receiver bottle Filter diameter Equipped with

ROCKER







	Lafil 400 - LF 30		Lafil 400 - SF 10	
ΓA				
	25 mbar abs.		25 mbar abs.	
	23 L/min @60Hz	20 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz
	52 dB			
	7.8 Kg		8.5 Kg	
	34 x 24 x 44 cm		34 x 24 x 37 cm	
	110V	220V	110V	220V
	50 / 60Hz		50 / 60Hz	
	100W (1/6 HP)	80W (1/6 HP)	100W (1/6 HP)	80W (1/6 HP)
	1.0A	0.4A	1.0A	0.4A
	Overheat Protecti	on		
ATL	IS			
	300 mL		100 mL	
	1200 mL		1200 mL	
	47 mm / 50 mm		47 mm	
	Vacuum regulato	r, Overlfow protect	ion	





Features

Save 70% bench space

WaterVac 100 is a revolutionary filtration system that integrates filter holder with a liquid pump that bypasses liquid directly to waste. Kiss all tubes and bottles goodbye.

Improve efficiency

Built-in liquid pump transfers filtered liquid directly to waste, saving time for emptying and cleaning bottles.

Versatile & compatible

Replaceable adaptors make WaterVac 100 compatible with most available filter funnels and holders.

- International certification CE certification
- One-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

190110-01(02)

WaterVac 100 - MS, Vacuum Filtration System with AC100-240V adaptor, US plug (EU plug) 200300-01

MF 3, Magnetic Filter Holder, 300 mL 200500-01

MF 5, Magnetic Filter Holder, 500 mL

WaterVac 100 - MS



0

Compatible with various kinds of adaptors and filter holders

Specification

Improve operation time

Model	WaterVac 100 - MS
PERFORMANCE DATA	
Max. vacuum	313 mbar abs.
Max. liquid flow rate	0.5 L/min
Hose barb	ID6
Noise level	55 dB
Net weight	1.2 Kg
Dimension (LxWxH)	17 x 12 x 10 cm
Material contact with filtrate	SS316, FKM, Silicone, PP, PA66
ELECTRICAL DATA	
Power input	DC12V, 1.0A
Max. power	12W
Motor	Brushless DC Motor (BLDC)
OTHER DATA	
Number of branch	1
Adaptor	No.8 Stopper
Filter holder	(Optional) MF 3 / MF 5, Magnetic Filter Holder, 300 mL / 500 mL

Vacuum Filtration System

Features

Save 70% bench space

WaterVac 100 is a revolutionary filtration system that integrates filter holder with a liquid pump that bypasses liquid directly to waste. Kiss all tubes and bottles goodbye.

Improve efficiency

Built-in liquid pump transfers filtered liquid directly to waste, saving time for emptying and cleaning bottles.

Versatile & compatible Replaceable adaptors make WaterVac

100 compatible with most available filter funnels and holders.

Use with ROCKER SF funnels

These SF stainless steel 316 funnels can be sterilized with flame and made this system super handy for microbiological tests.

- International certification
- CE certification
- One-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

190120-01(02)

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

WaterVac 101 - MB, Vacuum Filtration System with AC100-240V adaptor, US plug (EU plug)

180100-01 SF stainless steel funnel, 100 mL

180100-03 SF stainless steel funnel, 300 mL 180100-05

SF stainless steel funnel, 500 mL

Max. vacuum Max. liquid flow rate Hose barb Noise level Net weight Dimension (LxWxH) Material contact with Power input Max. power Motor Number of branch Adaptor

Specification

Model

Filter holder

190121-01(02)











	WaterVac 100 - MB	WaterVac 101 - MB
ΓA		
	313 mbar abs.	
	0.5 L/min	
	ID6	
	55 dB	
	1.2 Kg	
	17 x 12 x 10 cm	
n filtrate	SS316, FKM, Silicone, PP, PA66	
	DC12V, 1.0A	
	12W	
	Brushless DC Motor (BLDC)	
	1	1
	Spin-lock design	Spin-lock design
	(Optional) SF stainless steel funnel, 100 mL / 300 mL / 500 mL	(Standard) SF stainless steel funnel, 100 mL



Features

Save 70% bench space

WaterVac 200 is a revolutionary filtration system that integrates filter holders with a liquid pump that bypasses liquid directly to waste. Kiss all tubes and bottles goodbye.

Improve operation efficiency Built-in liquid pump transfers filtered liquid directly to waste, saving time for emptying and cleaning bottles.

In 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 & compatible

Replaceable adaptors make WaterVac 200 compatible with most available filter funnels and holders.

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

MF 3, Magnetic Filter Holder, 300 mL

200500-01

MF 5, Magnetic Filter Holder, 500 mL



Specification

-	
Model	WaterVac 200 - MS
PERFORMANCE DATA	
Max. vacuum	313 mbar abs.
Max. liquid flow rate	4.5 L/min
Hose barb	ID8
Noise level	60 dB
Net weight	2.8 Kg
Dimension (LxWxH)	21 x 18 x 26 cm
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS
ELECTRICAL DATA	
Power input	DC24V, 1.8A
Max. power	44W
Motor	Brushless DC Motor (BLDC)
Safety	Overload Protection
OTHER DATA	
Number of branch	2
Adaptor	No.8 Stopper
Filter holder	(Optional) MF 3 / MF 5, Magnetic Filter Holder, 300 mL / 500 mL

Vacuum Filtration System

Features

Save 70% bench space

WaterVac 200 is a revolutionary filtration system that integrates filter holders with a liquid pump that bypasses liquid directly to waste. Kiss all tubes and bottles goodbye.

Improve efficiency

Built-in liquid pump transfers filtered liquid directly to waste, saving time for emptying and cleaning bottles.

In 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)

Use with ROCKER SF funnels

These SF stainless steel 316 funnels can be sterilized with flame and made this system super handy for microbiological tests.

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 AC100-240V adaptor, US plug (EU plug)

180100-01

SF stainless steel funnel, 100 mL 180100-03

SF stainless steel funnel, 300 mL

180100-05

SF stainless steel funnel, 500 mL

Specification

Model PERFORMANCE DA

Max. vacuum Max. liquid flow rate Hose barb Noise level Net weight Dimension (LxWxH) Material contact with ELECTRICAL DATA Power input Max. power Motor Safety Number of branch Adaptor Filter holder

ROCKER









	WaterVac 200 - MB	WaterVac 201 - MB
ΓA		
	313 mbar abs.	
	4.5 L/min	
	ID8	
	60 dB	
	2.8 Kg	
	21 x 18 x 26 cm	
h filtrate	SS316, FKM, Silicone, PP, PPS	
	DC24V, 1.8A	
	44W	
	Brushless DC Motor (BLDC)	
	Overload Protection	
	2	
	Spin-lock design	Spin-lock design
	(Optional) SF stainless steel funnel, 100 mL / 300 mL / 500 mL	(Standard) SF stainless steel funnel, 100 mL x 2



Maximize Your WaterVac Versatility!







Aluminum Manifold

Features

- Quick-assembly and disassembly Each component can be easily removed for cleaning and autoclaving.
- Light and handy All parts of MultiVac 310 / 610 manifold are made of aluminum, making it 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 Control feeds of each filter holder individually.
- Versatile & compatible MultiVac 310 / 610 - MS manifolds include No.8 silicone stoppers that are adaptable to most filter holders.
- Two-Year Warranty

Applications

- Suspended solid test
- Microbiological test
- Vacuum filtration

Ordering Information

180310-01 MultiVac 310 - MS, 3 Places Aluminum Manifold 180610-01 MultiVac 610 - MS, 6 Places Aluminum Manifold 200300-01 MF 3, Magnetic Filter Holder, 300 mL 167110-16 No.8 silicone stopper



Specification

MultiVac 310 - MS	MultiVac 610 - MS
3	6
Depends on filter holder	Depends on filter holder
Depends on filter holder	Depends on filter holder
ID8	ID8
1.8 Kg	3.0 Kg
48 x 13 x 16 cm	85 x 13 x 16 cm
Material	Material
Aluminum	Aluminum
Aluminum	Aluminum
	3 Depends on filter holder Depends on filter holder ID8 1.8 Kg 48 x 13 x 16 cm Material Aluminum Aluminum

* Materials in contact with the filtrate are aluminum, FKM

ROCKER

Stainless Steel Manifold

Features

2

YEAR

Quick-assembly and disassembly Each component can be easily removed for cleaning and autoclaving .

- SS316 stainless steel All wetted parts of MultiVac 300 / 600 manifold are made of SS316 stainless steel, which is more durable.
- Quick-Fit hose barb Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.
- Innovative vent valve design Adjustable vent valve eliminates water

hammer phenomenon and helps drain residual liquid in pipe.

- Individual control valve Control feeds of each filter holder individually.
- Versatile & compatible

MultiVac 300 / 600 - MS manifolds include No.8 silicone stoppers that are adaptable to most filter holders.

Two-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

180300-01

MultiVac 300 - MS, 3 Places SS Manifold 180600-01

MultiVac 600 - MS, 6 Places SS Manifold 200300-01

MF 3, Magnetic Filter Holder, 300 mL 167110-16

No.8 silicone stopper





Specification

Model

model
Number of branch
Filter diameter
Funnel capacity
Hose barb
Net weight
Dimension (LxWxH)
Part
Body
Control valve
Adaptor
Hose barb / Vent va
Handle / Knob
O-ring
Materials in contact

63

_		
	MultiVac 300 - MS	MultiVac 600 - MS
	3	6
	Depends on filter holder	Depends on filter holder
	Depends on filter holder	Depends on filter holder
	ID8	ID8
	3.0 Kg	5.1 Kg
	48 x 13 x 16 cm	85 x 13 x 16 cm
	Material	Material
	SS316	SS316
	SS316	SS316
	SS316	SS316
ve	SS316	SS316
	Aluminum	Aluminum
	FKM, Silicone	FKM, Silicone

with the filtrate are SS316, FKM.



Stainless Steel Manifold

Features

- Quick-assembly and disassembly Each component can be easily removed for cleaning and autoclaving.
- SS316 stainless steel All wetted parts of MultiVac 300 / 600
- manifold are made of SS316 stainless steel, making it durable and autoclavable.

Quick-Fit hose barb Detachable hose barb can be connected

to either side of the manifold quickly towards the vacuum source.

Innovative vent valve design

Adjustable vent valve design eliminates water hammer phenomenon and helps drain residual liquid in pipe.

- Individual control valve Control feeds of each funnel individually.
- Use with ROCKER SF funnels Use MultiVac 300 / 600 - MB with ROCKER SF funnels. These stainless steel 316 funnels can be sterilized with flame and made this system super handy for microbiological tests.
- ► Two-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

180300-02 MultiVac 300 - MB, 3 Places SS Manifold

180600-02 MultiVac 600 - MB, 6 Places SS Manifold

180100-01 SF stainless steel funnel, 100 mL

180100-03 SF stainless steel funnel, 300 mL

180100-05

SF stainless steel funnel, 500 mL





Specification

Model	MultiVac 300 - MB	MultiVac 600 - MB
Number of branch	3	6
Filter diameter	47 mm	47 mm
Funnel capacity	(Optional) 100 mL / 300 mL / 500 mL	(Optional) 100 mL / 300 mL / 500 mL
Hose barb	ID8	ID8
Net weight	2.9 Kg	5.0 Kg
Dimension (LxWxH)	48 x 13 x 11 cm	85 x 13 x 11 cm
Part	Material	Material
Body	SS316	SS316
Control valve	SS316	SS316
Adaptor	SS316	SS316
Membrane support	SS316	SS316
Hose barb / Vent valve	SS316	SS316
Handle / Knob	Aluminum	Aluminum
O-ring	FKM, Silicone	FKM, Silicone

* Materials in contact with the filtrate are SS316, FKM.

Stainless Steel Manifold

Features

2

YEAR

WARRANTY

0

Adjustable vent valve

Quick-Fit hose barb

Quick-assembly and disassembly Each component can be easily removed for cleaning and autoclaving .

- SS316 stainless steel All wetted parts of MultiVac 301 / 601 manifold are made of SS316 stainless steel, making it durable and autoclavable.
- Quick-Fit hose barb Detachable hose barb can be connected to either side of the manifold quickly towards the vacuum source.
- Innovative vent valve design

Adjustable vent valve eliminates water hammer phenomenon and helps drain residual liquid in pipe.

Individual control valve

- Control feeds of each funnel individually.
- Two-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

180301-02

MultiVac 301 - MB, 3 Places SS Manifold 180601-02 MultiVac 601 - MB, 6 Places SS Manifold 180100-01 SF stainless steel funnel, 100 mL 180100-03 SF stainless steel funnel, 300 mL 180100-05 SF stainless steel funnel, 500 mL



Specification

Model
Number of branch
Filter diameter
Funnel capacity
Hose barb
Net weight
Dimension (LxWxH)
Part
Body
Control valve
Adaptor
Membrane support
Hose barb / Vent va
Handle / Knob
Funnel
O-ring
Materials in contact

	MultiVac 301 - MB	MultiVac 601 - MB
	3	6
	47 mm	47 mm
	100 mL	100 mL
	ID8	ID8
	3.7 Kg	6.6 Kg
	48 x 13 x 14 cm	85 x 13 x 14 cm
	Material	Material
	SS316	SS316
ve	SS316	SS316
	Aluminum	Aluminum
	SS316	SS316
	FKM, Silicone	FKM, Silicone

with the filtrate are SS316, FKM.



Features

For large number of samples MultiVac 310 / 610 - MS - A is an economical kit for filtration with large number samples.

Save time & space

Alligator 200 liquid pump bypasses filtrate directly to waste without connecting to additional waste bottles. Saving time for doing tedious cleaning works and more than 40% of bench space.

Light and handy

This aluminum-made manifold is autoclavable, light and cost-effective.

Magnetic filter holder is included Magnetic filter holder allows one-handed operation and prevents the membrane from being twisted or torn.

International certification

CE certification IP 64 protection (Alligator 200) RoHS certification (Alligator 200)

- One-Year Warranty (Alligator 200)
- Two-Year Warranty (MultiVac 310 / 610 - MS)

Applications

- Suspended solid test
- Microbiological test
- Vacuum filtration

Ordering Information

180311-01(02)-A 180611-01(02)-A

MultiVac 310 / 610 - MS - A, Vacuum Filtration System, complete set includes:

- * Alligator 200, Diaphragm Liquid Pump
- * MultiVac 310 / 610 MS, 3 / 6 Places
- Aluminum Manifold
- * MF 3, Magnetic Filter Holder, 300 mL (3 / 6 pcs)
- * Silicone tube

67



Specification

ROCKER

Model	MultiVac 310 - MS - A	MultiVac 610 - MS - A			
PERFORMANCE DATA					
Max. vacuum	313 mbar abs.				
Max. liquid flow rate	4.5 L/min				
Noise level	60 dB				
Net weight	6.5 Kg	10.3 Kg			
Dimension (LxWxH)	75 x 19 x 30 cm	114 x 19 x 30 cm			
ELECTRICAL DATA					
Power input	DC24V, 1.8A				
Max. power	44W				
Motor	Brushless DC Motor (BLDC)				
Safety	Overload Protection				
OTHER DATA					
Number of branch	3	6			
Filter holder	MF 3, 300 mL x 3	MF 3, 300 mL x 6			
Filter diameter	47 mm	47 mm			
Material contact with filtrate PES, Aluminum, SS316, FKM, Silicone, PP, PPS		one, PP, PPS			

Vacuum Filtration System

Features

For microbiological filtration

MultiVac 301 / 601 - MB - A is a perfect kit for microbiological tests with large number samples. All wetted parts of manifold are made of SS316 stainless steel, which can be fast sterilized by flame.

Save time & space

Alligator 200 liquid pump bypasses filtrate directly to waste without connecting to additional waste bottles. Saving time for doing tedious cleaning works and more than 40% of bench space.

- Quick-assembly and disassembly Each component of manifold can be easily removed for cleaning and autoclaving.
- Innovative vent valve design Adjustable vent valve eliminates water hammer phenomenon and helps drain residual liquid in pipe.
- International certification CE certification IP 64 protection (Alligator 200)

RoHS certification (Alligator 200)

- One-Year Warranty (Alligator 200)
- Two-Year Warranty (MultiVac 301 / 601 - MB)

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

180301-01(02)-A 180601-01(02)-A

MultiVac 301 / 601 - MB - A, Vacuum

Filtration System, complete set includes:

- * Alligator 200, Diaphragm Liquid Pump * MultiVac 300 / 600 - MB, 3 / 6 Places Stainless Steel Manifold
- * SF stainless steel funnel, 100 mL (3 / 6 pcs)
- * Dragon 100, Torch Burner
- * MCE membrane, 47 mm, 0.45 µm (200 pcs)
- * Silicone tube

Filter diameter

Material contact with



Specification Model

Max. vacuum Max. liquid flow rate Noise level Net weight Dimension (LxWxH) ELECTRICAL DATA Power input

- Max. power Motor Safetv
- Number of branch
- Funnel

	MultiVac 301 - MB - A	MultiVac 601 - MB - A
ΓA		
	313 mbar abs.	
	4.5 L/min	
	60 dB	
	7.7 Kg	10.5 Kg
	89 x 19 x 20 cm	128 x 19 x 20 cm
	DC24V, 1.8A	
	44W	
	Brushless DC Motor (BLDC)	
	Overload Protection	
	3	6
	SF stainless steel funnel 100 mL x 3	SF stainless steel funnel 100 mL x 6
	47 mm	47 mm
n filtrate	SS316, FKM, Silicone, PP, PPS	


Vacuum Filtration System



Features

- For large number of samples MultiVac 310 / 610 - MS - T is an economical kit for filtration with large number samples.
- Light and handy This aluminum-made manifold is light, cost-effective and autoclavable. Each component can be easily removed for cleaning and autoclaving.
- Magnetic filter holder is included Magnetic filter holder allows one-handed operation and prevents the membrane from being twisted or torn.
- > 4000 mL PP vacuum bottle with drain The large capacity of 4000 mL vacuum bottle with drain offers convenience of collecting and draining liquid waste.
- International certification

CE certification CSA certification (Rocker 400) IP 30 protection (Rocker 400) RoHS certification (Rocker 400)

- Two-Year Warranty (Rocker 400)
- ► Two-Year Warranty (MultiVac 310 / 610 - MS)

Applications

- Suspended solid test
- Microbiological test
- ► Vacuum filtration

Ordering Information

180311-11(22)-T 180611-11(22)-T

MultiVac 310 / 610 - MS - T, Vacuum Filtration System, complete set includes :

- * Rocker 400, Oil Free Vacuum Pump
- * MultiVac 310 / 610 MS, 3 / 6 Places
- Aluminum Manifold
- * MF 3, Magnetic Filter Holder, 300 mL (3 / 6 pcs) * PP vacuum bottle with drain, 4000 mL
- * Silicone tube



Specification

Model	MultiVac 310 - MS	5-Т	MultiVac 610 - MS	5-T
PERFORMANCE DATA				
Max. vacuum	99 mbar abs.			
Max. flow rate	37 L/min @60Hz	34 L/min @50Hz	37 L/min @60Hz	34 L/min @50Hz
Noise level	52 dB			
Net weight	10.6 Kg		14.4 Kg	
Dimension (LxWxH)	105 x 16 x 45 cm		144 x 16 x 45 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50 / 60Hz		50 / 60Hz	
Max. power	100W (1/6HP)	80W (1/6HP)	100W (1/6HP)	80W (1/6HP)
Max. current	1.0A	0.4A	1.0A	0.4A
Safety	Overheat Protect	ion		
OTHER DATA				
Number of branch	3		6	
Filter holder	MF 3, 300 mL x 3		MF 3, 300 mL x 6	
Filter diameter	47 mm		47 mm	
Vacuum bottle	4000 mL (with dra	ain)	4000 mL (with drain)	
Material contact with filtrate	PES, Aluminum, F	KM, Silicone, PP		

Vacuum Filtration System

Features

► For microbiological filtration

MultiVac 301 / 601 - MB - A is a perfect kit for microbiological tests with large number samples. All wetted parts of manifold are made of SS316 stainless steel, which can be fast sterilized by flame.

- Quick-assembly and disassembly Each component can be easily removed for cleaning and autoclaving
- Innovative vent valve design Unique adjustable vent valve design eliminates water hammer phenomenon and helps drain residual liquid in pipe.
- 4000 mL PP vacuum bottle with drain The large capacity of 4000 mL vacuum bottle with drain offers convenience of collecting and draining liquid waste.
- International certification CE certification

CSA certification (Rocker 400) IP 30 protection (Rocker 400) RoHS certification (Rocker 400)

Two-Year Warranty (Rocker 400)

Two-Year Warranty (MultiVac 301 / 601 - MB)

Applications

- Microbiological test
- Suspended solid test
- ► Vacuum filtration

Ordering Information

180301-11(22)-T 180601-11(22)-T

MultiVac 301 / 601 - MB - T, Vacuum Filtration System, complete set includes :

- * Rocker 400, Oil Free Vacuum Pump
- * MultiVac 300 / 600 MB, 3 / 6 Places Stainless Steel Manifold
- * SF stainless steel funnel, 100 mL (3 / 6 pcs)
- * PP vacuum bottle with drain, 4000 mL
- * Dragon 100, Torch Burner
- * MCE membrane, 47 mm, 0.45 μm (200 pcs)
- * Silicone tube



Specification

Model
PERFORMANCE DAT
Max. vacuum
Max. flow rate
Noise level
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Voltage
Frequency
Max. power
Max. current
Safety
OTHER DATA
Number of branch
Funnel
Filter diameter
Vacuum bottle

Material contact with filtrate









	MultiVac 301 - MB - T		MultiVac 601 - MB - T	
Ą				
	99 mbar abs.			
	37 L/min @60Hz	34 L/min @50Hz	37 L/min @60Hz	34 L/min @50Hz
	52 dB			
	11.8 Kg		15.6 Kg	
	105 x 16 x 45 cm		144 x 16 x 45 cm	
	110V	220V	110V	220V
	50 / 60Hz		50 / 60Hz	
	100W (1/6HP)	80W (1/6HP)	100W (1/6HP)	80W (1/6HP)
	1.0A	0.4A	1.0A	0.4A
	Overheat Protection			
	3		6	
	SF stainless steel funnel 100 mL x 3		SF stainless steel funnel 100 mL x 6	
	47 mm		47 mm	
	4000 mL (with drain)		4000 mL (with dra	ain)
٦	SS316, FKM, Silico	one, PP		
	SSSTO, FRM, SINCOLE, FT			



Maximize Your MultiVac Versatility!





ROCKER



Rotary Manifold

Features

Rotary design

Turn the funnels and add samples at same position and prevent crosscontamination.

Save 60% space

Compared to conventional linear manifolds, SolarVac's rotary design saves 60% of space and fits better in laminar flow hoods.

Easy tracking

Each funnel position is marked clearly with numbers, making tracking easy and effortless.

Durable and autoclavable

The wetted parts of SolarVac manifold are made of SS316 and silicone which is durable and autoclavable.

- Individual control valve Control feeds of each funnel individually.
- International certification **RoHS** certification
- Two-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

186600-01 SolarVac 600 - MS, 6 Places Rotary Manifold 186600-02

SolarVac 600 - MB, 6 Places Rotary Manifold 180100-01

SF stainless steel funnel, 100 mL

180100-03

SF stainless steel funnel, 300 mL 180100-05

SF stainless steel funnel, 500 mL 200300-01

MF 3, Magnetic Filter Holder, 300 mL

200300-01-P

MF 3 Pro, Magnetic Filter Holder, 300 mL 200500-01

MF 5, Magnetic Filter Holder, 500 mL 200500-01-P

MF 5 Pro, Magnetic Filter Holder, 500 mL





utoclavable

5

4

YEAR

WARRANTY



Specification

Model	SolarVac 600 - MS	SolarVac 600 - MB
Number of branch	б	б
Filter diameter	Depends on filter holders	47 mm
Funnel capacity	Depends on filter holders	(Optional) 100 mL / 300 mL / 500 mL
Hose barb	ID8	ID8
Net weight	8.6 Kg	8.4 Kg
Dimension (LxWxH)	Ø 34 x 18 cm	Ø 34 x 14 cm
Part	Material	Material
Body	SS304	SS304
Control valve	SS316	SS316
Adaptor	SS316	SS316
Membrane support	SS316	SS316
Hose barb / Vent valve	SS316	SS316
Knob	Aluminum	Aluminum
O-ring	FKM, Silicone	FKM, Silicone

* Materials in contact with the filtrate are SS316, FKM, and silicone

ROCKER

Rotary Manifold

Features

Rotary design

Turn the funnels and add samples at same position and prevent crosscontamination.

Save 60% space

Compared to conventional linear manifolds, SolarVac's rotary design saves 60% of space and fits better in laminar flow hoods.

Each funnel position is marked clearly with numbers, making tracking easy and effortless.

Durable and autoclavable

The wetted parts of SolarVac manifold are made of SS316 and silicone which is durable and autoclavable.

- Individual control valve Control feeds of each funnel individually.
- International certification **RoHS** certification
- Two-Year Warranty

Applications

- Microbiological test
- Suspended solid test
- ► Vacuum filtration

Ordering Information

186601-02

SolarVac 601 - MB, 6 Places Rotary Manifold 1861201-02 SolarVac 1201 - MB, 12 Places Rotary Manifold

180100-01

SF stainless steel funnel, 100 mL

180100-03 SF stainless steel funnel, 300 mL

180100-05 SF stainless steel funnel, 500 mL

Model Number of branch Filter diameter Funnel capacity Hose barb Net weight Dimension (LxWx Body Control valve Adaptor Membrane suppo Hose barb / Vent Knob Funnel O-ring



Patenter

Patentee

Easy tracking







Adjustable vent valve

SolarVac 601 - MB



SolarVac 1201 - MB

Specification

	SolarVac 601 - MB	SolarVac 1201 - MB
:h	6	12
	47 mm	47 mm
	100 mL	100 mL
	ID8	ID8
	10.0 Kg	17.6 Kg
κH)	Ø 34 x 19 cm	Ø 45 x 19 cm
	Material	Material
	SS304	SS304
	SS316	SS316
	SS316	SS316
ort	SS316	SS316
valve	SS316	SS316
	Aluminum	Aluminum
	SS316	SS316
	FKM, Silicone	FKM, Silicone

* Materials in contact with the filtrate are SS316, FKM, and silicone.



Vacuum Filtration System



Features

For microbiological filtration

SolarVac 601 / 1201 - MB - A, include Alligator 200 diaphragm liquid pump, rotary manifold, burner and MCE membrane, are designed for a large number of samples in microbiological test.

Rotary manifold design Turn the funnels and add samples at same

position and prevent cross-contamination.

Save time & space Alligator 200 is a liquid pump that bypasses filtrate directly to drain without additional

- bottles. Save 60% bench space and save time from tedious cleaning works.
- Durable and autoclavable The wetted parts of SolarVac series are made of SS316 and silicone that is durable and autoclavable.
- International certification CE certification (Alligator 200) IP 64 protection (Alligator 200) **RoHS** certification
- One-Year Warranty (Alligator 200)
- Two-Year Warranty (SolarVac 601 / 1201 - MB)

Applications

- Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

186601-01(02)-A

1861201-01(02)-A SolarVac 601 / 1201 - MB - A, Vacuum Filtration

System, complete set includes:

- * Alligator 200, Diaphragm Liquid Pump * SolarVac 601 / 1201 - MB, 6 / 12 Places Rotary
- Manifold * SF stainless steel funnel, 100 mL (6 / 12 pcs)
- * Dragon 100, Torch Burner
- * MCE membrane, 47 mm, 0.45 µm (200 pcs)
- * Silicone tube

SolarVac 1201- MB - A

Specification

SolarVac 601 - MB - A

Model	SolarVac 601 - MB - A	SolarVac 1201 - MB - A	
PERFORMANCE DATA			
Max. vacuum	313 mbar abs.		
Max. liquid flow rate	4.5 L/min		
Noise level	60 dB		
Net weight	13 Kg	21 Kg	
Dimension (LxWxH)	76 x 34 x 20 cm	77 x 45 x 20 cm	
ELECTRICAL DATA			
Power input	DC24V, 1.8A		
Max. power	44W		
Motor	Brushless DC Motor (BLDC)		
Safety	Overload Protection		
OTHER DATA			
Number of branch	6	12	
Funnel	SF stainless steel funnel 100 mL x 6	SF stainless steel funnel 100 mL x 12	
Filter diameter	47 mm	47 mm	
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS		

Vacuum Filtration System

Features

For microbiological filtration

SolarVac 601 / 1201 - MB - T, include Rocker 400 vacuum pump, rotary manifold, waste bottle, burner, and MCE membrane, are designed for a large number of samples in microbiological test.

Rotary manifold design Turn the funnels and add samples at same

position and prevent cross-contamination.

- 4000 mL PP vacuum bottle with drain The large capacity of 4000 mL vacuum bottle with drain offers convenience of collecting and draining waste solution.
- Durable and autoclavable The wetted parts of SolarVac manifold are made of SS316 and silicone which is durable and autoclavable.
- International certification CE certification (Rocker 400) CSA certification (Rocker 400) IP 30 protection (Rocker 400) **RoHS** certification



Two-Year Warranty (SolarVac 601 / 1201 - MB)

Applications

Microbiological test

- Suspended solid test
- ► Vacuum filtration

Ordering Information

186601-11(22)-T 1861201-11(22)-T

SolarVac 601 / 1201 - MB - T, Vacuum Filtration System, complete set includes:

- * Rocker 400, Oil Free Vacuum Pump
- * SolarVac 600 / 1200 MB, 6 / 12 Places Rotary Manifold
- * SF stainless steel funnel, 100 mL (6 / 12 pcs)
- * PP vacuum bottle with drain, 4000 mL
- * Dragon 100, Torch Burner
- * MCE membrane, 47 mm, 0.45 µm (200 pcs)
- * Silicone tube







Specification

Model	SolarVac 601 - MB - T		SolarVac 1201 - MB - T	
PERFORMANCE DATA				
Max. vacuum	99 mbar abs.			
Max. flow rate	37 L/min @60Hz	34 L/min @50Hz	37 L/min @60Hz	34 L/min @50Hz
Noise level	52 dB			
Net weight	16.7 Kg		24.2 Kg	
Dimension (LxWxH)	108 x 34 x 45 cm	n	119 x 45 x 45 ci	m
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50 / 60Hz		50 / 60Hz	
Max. power	100W (1/6HP)	80W (1/6HP)	100W (1/6HP)	80W (1/6HP)
Max. current	1.0A	0.4A	1.0A	0.4A
Safety	Overheat Protection			
OTHER DATA				
Number of branch	6		12	
Filter holder	SF stainless steel funnel 100 mL x 6		SF stainless ste 100 mL x 12	el funnel
Filter diameter	47 mm		47 mm	
Vacuum bottle	4000 mL (with drain)		4000 mL (with	drain)
Material contact with filtrate	SS316, Silicone, FKM, PP			



Maximize Your SolarVac Versatility!



ROCKER





197200-53

197200-47

PP Heavy-Duty Vacuum Bottle



PP Heavy-Duty Vacuum Bottle

The perfect container for your applications





PP Heavy-Duty Vacuum Bottle, 4000 mL

97200-47	197200-48	197200-53	197200-46
83	B83	B83	B83
lose barb	Hose barb	Quick-coupling connector	-
00 mL	500 mL	500 mL	500 mL
es	Yes	Yes	-
D4 ~ ID8	ID4~ID8	ID6	-
	Yes	-	-

97202-47	197202-53	197202-46
83	B83	B83
lose barb	Quick-coupling connector	-
00 mL	500 mL	500 mL
es	Yes	-
04 ~ ID8	ID6	-

97100-10	197100-10SC	197100-10SCN
L45	GL45	GL45
lose barb	Hose barb	Hose barb
50 mL	250 mL	250 mL
	Yes	-
06	ID4 ~ ID8	ID4 ~ ID8



Filtration Accessories



PES / PC Vacuum Bottle

Specification	PES vacuum bottle, 1200 mL	PC vacuum bottle, 1200 mL
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	ID8	ID8
Autoclavable	Yes	Yes

Multilayer Filtration Adaptor

Specification	Multilayer filtration adaptor
Catalog number	167230-05
Main material	PTFE
Material of membrane support	SS screen
Filter diameter	47 mm
Filter holder	(Optional) Glass filter holder 300 mL
Autoclavable	Yes



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Specification	Hoop Holder	Hoop Holder
Catalog number	167300-37	189300-37
Applicable pump	Rocker 300 / 400 / 410 Rocker 300C / 400C / 410C	Rocker 300 / 400 / 410 Rocker 300C / 400C / 410C
Applicable filtration apparatus	LF 30 / SF 10 / SF 30	VF 12
Applicable apparatus diameter	Max. 118 mm	Max. 103 mm



Membrane Filters **NEW**

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

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

Filtration Accessories



Specification

Specification	GL45 filtration adaptor
Catalog number	197000-65
Material of cap	PP
Material of gasket	PTFE
Stopper	No.8 stopper
Hose barb	ID4 ~ ID8
Autoclavable	Yes



Catalog number Material of cap Material of gaske Overflow protecti Hose barb Autoclavable

SC45 Suction Cap **GL45** Bottle Applications

► On waste bottle

Collecting liquid waste by being connected to vacuum pumps and filtration accessories.







► Vapor absorption (neutralization) bottle Ideal for absorbing acid or alkaline vapor to prevent harmful vapors from spreading into the environment or pump



GL45 Filtration Adaptor

GL45 Suction Cap NEW

	GL45 suction cap	SC45 Suction Cap	SC45 Suction Cap Kit
	197000-60	197000-61-P2N	197000-61-P2
	PP	PP	PP
5	Silicone	EPDM	EPDM
tion	-	-	Yes
	ID6	ID4 ~ ID8	ID4 ~ ID8
	Yes	Yes	Yes





Attaching to GL45 bottle filled with desiccant to prevent moisture from entering the vacuum pump.



* Please refer to P.92 to select laboratory glass bottle.



Suction Kit

Features

Quick connection Easy installation between handle and adaptors.

- One-finger tip ejection Ergonomic ejector makes tip removal easy and effortless.
- Easy lock switch

Keep continuous suction with a single click to save efforts during repetitive procedures.

Multi-functional storage rack

Accommodating all accessories in this rack to keep a tidy working environment. Built-in liquid tray collects dripping liquid from the adaptors and can be cleaned easily.

Autoclavable

The complete kit except the storage rack are made of autoclavable materials including POM and SS304.

Applications

- Cell culture aspiration
- Laboratory waste suction

Ordering Information

199100-00 BioDolphin Suction Kit (Light Blue) 199200-00

Plus Suction Kit (Light Blue) 199110-00

BioDolphin Suction Kit (Deep Blue) 199210-00 Plus Suction Kit (Deep Blue)

199130-00 BioDolphin Suction Kit (Green) 199230-00

Plus Suction Kit (Green)

BioDolphin



2

Standard accessory :

- 1. 199100-30 Handle

Specification Operation Hose barb Suction kit material

Rack material Net weight Dimension (LxWxH)

Suction kit

* The storage rack is NOT autoclavable.

Plus / BioDolphin **Suction System**

Suction Kit

Lafil 400 - Plus / Lafil 400 - BioDolphin

Tangential Flow Filtration System

Life

ROCKER

Sciences

Low Profile Magnetic Stirrer

Dry Bath Microplate Vacuum Manifold

Gravity-fed Microplate Washer

Ultrasonic Cleaner





2. 199100-46 1-channel tip adaptor (50 mm) 3. 199100-76 1-channel tip adaptor (150 mm) 4. 199100-47 1-channel SS adaptor (40 mm) 5. 199100-48 1-channel SS adaptor (80 mm)

- 9. 199100-6

6. 199100-49 8-channel SS adaptor (40 mm)

7. 199100-75 1-channel tip adaptor with ejector

- 8. 199100-50 8-channel tip adaptor with ejector

61	Rack		

BioDolphin	Plus
Press to suck	
ID6	
POM, SS304	
ABS	-
600 g	100 g
15 x 15 x 20 cm	15 x 8 x 6 cm
1. Handle	1. Handle
2. 1-channel tip adaptor (50 mm)	3. 1-channel tip adaptor (150 mm)
3. 1-channel tip adaptor (150 mm)	7.1-channel tip adaptor with ejector
4. 1-channel SS adaptor (40 mm)	8.8-channel tip adaptor with ejector
5. 1-channel SS adaptor (80 mm)	
6.8-channel SS adaptor (40 mm)	
6. 8-channel SS adaptor (40 mm)7. 1-channel tip adaptor with ejector	



Portable Suction System



Portable Suction System



Features

- All in One, saving 65% space Lafil 100 suction system integrates vacuum sources, waste bottle and suction kit into one single system. Saving 65% bench space.
- Ideal size for in-hood operation Lafil 100 suction system is in perfect size that allows operations in laminar flow hood.

Safe and convenient

(1) Tripping-proof and spill-proof fence-like bottle platform. (2) Syringe filter at air inlet prevents liquid from entering the pump. (3) Smart built-in tool storage makes it convenient and easy to use.

Eco control feature (Lafil 100^{eco})

Lafil 100^{eco}'s pump pauses when maximum vacuum is detected and resumes operation to maintain a constant and stable suction, making Lafil 100^{eco} more energy-saving and quieter machine to work with.

International certification CE certification

One-Year Warranty (Lafil 100 / Lafil 100^{eco})

Applications

- Cell culture aspiration
- Laboratory waste suction

Ordering Information

197100-01(02)

Lafil 100, Portable Suction System with AC100-240V adaptor, US plug (EU plug) 197110-01(02)

Lafil 100^{eco}, Portable Suction System with AC100-240V adaptor, US plug (EU plug)

197100-10

PP vacuum bottle with GL45 suction cap, 1000 mL

197000-60-500

Laboratory glass bottle with GL45 suction cap, 500 mL





500 mL laboratory glass bottle is available.

Specification

Model	Lafil 100	Lafil 100 ^{eco}
PERFORMANCE DATA		
Max. vacuum	345 mbar abs.	480 mbar abs.*
Max. flow rate	4.0 L/min	
Aspiration rate	9 mL/sec	
Waste bottle	PP vacuum bottle, 1000 mL / (Option	nal) Laboratory glass bottle, 500 mL
Auto shut-off	-	Yes
Noise level	50 dB	
Net weight	1.3 Kg	1.5 Kg
Dimension (LxWxH)	27 x 13 x 28 cm	
ELECTRICAL DATA		
Power input	DC12V, 0.5A	
Max. power	6W	
OTHER DATA		
Suction Kit	• Handle	
	• 1-channel tip adaptor (150 mm)	
	• 1-channel tip adaptor with ejector	r
	• 8-channel tip adaptor with ejector	r

* Lafil 100^{eco} will shut off at 480 mbar and restart at 813 mbar.

ROCKER

85





X2

Large Capacity Suction System



Large Capacity Suction System

Doubled efficiency

same time.

Features

All in One, saving 50% space

Lafil 200 suction system integrates vacuum source, waste bottle and suction kit into one single system. Saving 50% bench space.

Large volume, effort-saving

Equipped with 4L large-capacity PP bottle, saves efforts of repetitive waste draining. (Optional 3.5L glass bottles are also available)

Safety features

Multiple safety featured designs protect both the operator and the machine. (1) Easier and safer waste drain with quickcoupling bottle connectors.

(2) Tripping-proof and spill-proof fence-like bottle platform.

(3) Overflow protection prevents liquid from entering the pump

Eco control feature (Lafil 200^{eco})

Lafil 200^{eco}'s pump pauses when maximum vacuum is detected and resumes operation to maintain a constant and stable suction. Making Lafil 200^{eco} more energy-saving and quieter machine to work with.

International certification

CE certification IP 41 protection

RoHS certification (Lafil 200) One-Year Warranty (Lafil 200 / Lafil 200^{eco})

Applications Cell culture aspiration

Biochemical waste suction

Laboratory waste suction

Ordering Information

197205-01(02)

Lafil 200 - Plus, Suction System with AC100-240V adaptor, US plug (EU plug)

197203-01(02)

Lafil 200 - BioDolphin, Suction System with AC100-240V adaptor, US plug (EU plug)

197215-01(02)

Lafil 200^{eco}- Plus, Suction System with AC100-240V adaptor, US plug (EU plug)

197213-01(02)

Lafil 200^{eco}- BioDolphin, Suction System with AC100-240V adaptor, US plug (EU plug)

197200-53

PP vacuum bottle with quick-coupling connector, 4000 mL

197000-60-3500

Laboratory glass bottle with GL45 suction cap, 3500 mL





* The nameplate is different on Lafil 200 and Lafil 200^{eco}.

Specification

specification				
Model	Lafil 200 - Plus / BioDolphin	Lafil 200 ^{eco} - Plus / BioDolphin		
PERFORMANCE DATA				
Vacuum range	1013 ~ 213 mbar abs.	880 ~ 370 mbar abs.		
Max. flow rate	10 L/min			
Aspiration rate	17 mL/sec			
Waste bottle	4L PP vacuum bottle / (Optional) 3.	5L laboratory glass bottle		
Auto shut-off	-	Yes		
Noise level	55 dB			
Net weight	2.1 Kg	2.3 Kg		
Dimension (LxWxH)	38 x 26 x 22 cm			
ELECTRICAL DATA				
Power input	DC12V, 1.5A			
Max. power	18W			
OTHER DATA	Plus	BioDolphin		
Suction Kit	 Handle 1-channel tip adaptor (150 mm) 1-channel tip adaptor with ejector 8-channel tip adaptor with ejector 	 Handle 1-channel tip adaptor (50 mm) 1-channel tip adaptor (150 mm) 1-channel SS adaptor (40 mm) 1-channel SS adaptor (80 mm) 8-channel SS adaptor (40 mm) 1-channel tip adaptor with ejector 8-channel tip adaptor with ejector Rack 		



Supporting up to 2 suction kits work at the

The product can be disinfected with 70% ethanol or isopropanol (IPA).



Suction System

Features

All in One, saving 50% space

Lafil 300 suction system integrates vacuum source, waste bottle and suction kit into one single system. Saving 50% bench space.

Safety features

Multiple safety featured designs protect both the operator and the machine. (1) Tripping-proof and spill-proof fence-like bottle platform.

(2) Overflow protection prevents liquid from entering the pump.

Oil-free & care-free

Lafil systems are built-in with oil-free pumps that need no lubricant, making it maintenance-free and oil-mist-free.

Autoclavable

The waste bottle and all fittings are made of autoclavable materials such as PES or POM.

- International certification CE certification
- Two-Year Warranty (Lafil 300)

Applications

- Cell culture aspiration
- Laboratory waste suction

Ordering Information

197305-11(22)

Lafil 300 - Plus, Suction System AC110V, 60Hz (AC220V, 50Hz)

197303-11(22)

Lafil 300 - BioDolphin, Suction System AC110V, 60Hz (AC220V, 50Hz)

197300-11(22)

Lafil 300, Vacuum Pump AC110V, 60Hz (AC220V, 50Hz)

Lafil 300 - Plus





Specification

Model	Lafil 300 - Plus		Lafil 300 - BioDol	phin
PERFORMANCE DATA				
Max. vacuum	99 mbar abs.			
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	23 L/min@60Hz	20 L/min @50Hz
Aspiration rate	18 mL/sec			
Waste bottle	PES vacuum bott	le, 1200 mL		
Noise level	50 dB			
Net weight	5.9 Kg	5.9 Kg		
Dimension (LxWxH)	34 x 25 x 30 cm			
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50/60Hz		50 / 60Hz	
Max. power	65W (1/8 HP)	60W (1/8 HP)	65W (1/8 HP)	60W (1/8 HP)
Max. current	0.7A	0.3A	0.7A	0.3A
Safety	Overheat Protect	ion		
OTHER DATA	Plus		BioDolphin	
Suction Kit	 Handle 1-channel tip adaptor (150 mm) 1-channel tip adaptor with ejector 8-channel tip adaptor with ejector 			aptor (150 mm) aptor (40 mm) aptor (80 mm)

Rack

Suction System

Features

All in One, saving 50% space

Lafil 400 suction system integrates vacuum source, waste bottle and suction kit into one single system. Saving 50% bench space.

Safety features

Multiple safety featured designs protect both the operator and the machine. (1) Tripping-proof and spill-proof fence-like bottle platform.

(2) Overflow protection prevents liquid from entering the pump.

▶ Oil-free & care-free

Lafil systems are built-in with oil-free pumps that need no lubricant, making it maintenance-free and oil-mist-free.

Autoclavable

The waste bottle and all fittings are made of autoclavable materials such as PES or POM.

International certification

CE certification

Two-Year Warranty (Lafil 400)

Applications

Cell culture aspiration

Laboratory waste suction

Ordering Information

197405-11(22) Lafil 400 - Plus, Suction System AC110V, 60Hz (AC220V, 50Hz)

197403-11(22)

Lafil 400 - BioDolphin, Suction System AC110V, 60Hz (AC220V, 50Hz)

197400-11(22)

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

Specification

PERFORMANC Max. vacuum Max. flow rate

Aspiration rate

Waste bottle

Noise level

Net weight

Dimension (Lx

ELECTRICAL D

Voltage

Frequency

Max. power Max. current

Safety

Suction Kit



4 YEAR

WARRANTY







	Lafil 400 - Plus		Lafil 400 - BioDol	phin		
E DAT/	٩					
	25 mbar abs.					
	23 L/min @60Hz	20 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz		
2	19 mL/sec					
	PES vacuum bott	tle, 1200 mL				
	52 dB					
	7.0 Kg					
WxH)	34 x 25 x 30 cm					
ATA						
	110V	220V	110V	220V		
	50 / 60Hz		50 / 60Hz			
	100W (1/6 HP)	80W (1/6 HP)	100W (1/6 HP)	80W (1/6 HP)		
	1.0A	0.4A	1.0A	0.4A		
	Overheat Protect	tion				
	Plus		BioDolphin			
	 Handle 1-channel tip adaptor (150 mm) 1-channel tip adaptor with ejector 8-channel tip adaptor with ejector 					



Suction Accessories



PP vacuum bottle,

4000 mL

PP Heavy-Duty Vacuum Bottle



Catalog number	197200-47	197200-48	197200-53	197200-46
Connector	Hose barb	Hose barb	Quick-coupling connector	-
Graduated increment	500 mL	500 mL	500 mL	500 mL
Overflow protection	Yes	Yes	Yes	-
Hose barb	ID4 ~ ID8	ID4 ~ ID8	ID6	-
Drain device	-	Yes (Rubber, NOT autoclavable)	-	-
Autoclavable	Yes	Yes	Yes	Yes



Suction Accessories

,197201-38

,197201-39





Overflow protect Hose barb Autoclavable

PES Vacuum Bottle

PES vacuum bottle, 1200 mL	PES vacuum bottle, 1200 mL
197000-11	197000-12
100 mL	100 mL
Yes	Yes
Yes	-
ID8	ID4 ~ ID8
Yes	Yes
	1200 mL 197000-11 100 mL Yes Yes ID8

Quick Connect Fitting

Specification	1/4 inch Male fitting	5/16 inch Female fitting
Catalog number	197201-38	197201-39
Hose barb	ID6	ID8
Material	POM, FKM	POM, SS316, FKM
Autoclavable	Yes	Yes

Glass bottle, 500 mL	Glass bottle, 1000 mL	Glass bottle, 3500 mL
197000-60-500	197000-60-1000	197000-60-3500
GL45 suction cap	GL45 suction cap	GL45 suction cap
100 mL	100 mL	500 mL
ID6	ID6	ID6
Yes	Yes	Yes
	500 mL 197000-60-500 GL45 suction cap 100 mL ID6	500 mL 1000 mL 197000-60-500 197000-60-1000 GL45 suction cap GL45 suction cap 100 mL 100 mL ID6 ID6

ROCKER





PP Vacuum Bottle

	PP vacuum bottle, 1000 mL	PP vacuum bottle, 2000 mL
r	197100-10	197202-47
ement	250 mL	500 mL
ction	-	Yes
	ID6	ID4 ~ ID8
	Yes	Yes

Laboratory Glass Bottle with GL45 Suction Cap

* PES : Polyethersulfone, PP : Polypropylene



Multi-purpose

Tangential Flow Filtration System



Tangential Flow Filtration System



Multi-purpose

Tangential flow filtration technique enables concentration and diafiltration at same run.

Less membrane fouling Feed flows parallel to membrane and thus prevents membrane fouling and

increases membrane utility. Easy scale-up

Use same parameters and conditions from trial to mass production.

Plug & start

Integrated with pump, liquid reservoir and pressure gauges. Plug the tube, add samples and start processing.

International certification CE certification **RoHS** ertification

One-Year Warranty

Applications

- Concentration and desalting
- Diafiltration and purification
- Buffer exchange and dialysis
- Exosomes and protein isolation

Ordering Information

184100-01(02)

Tanfil 100, Tangential Flow Filtration System, AC100-240V, 50/60Hz, US plug (EU plug)

203100-01(02)

MS 100, Low Profile Magnetic Stirrer with AC100-240V adaptor, US plug (EU plug)

203100-10

PTFE magnetic stirring bar, Ø 3.6 x 25 mm 184100-47

TYGON[®], Sani-Tech[®] Ultra-C platinum-cured silicone tubing, ID 1/8" x OD 1/4", 50 ft

184100-48

Pharmed® BPT tubing, ID 1/8" x OD 1/4", 25 ft



Specification

opeemeation			
Model	Tanfil 100		
PERFORMANCE DATA			
Max. inlet pressure	60 psig		
Max. gauge pressure	80 psig		
Recirculation flow rate	0 ~ 460 mL/min		
Min. recirculation volume	7 mL		
Reservoir	PES Reservoir, 500 mL		
Noise level	55 dB		
Net weight	7.8 Kg		
Dimension (LxWxH)	28 x 33 x 16 cm		
ELECTRICAL DATA			
Power input	100-240V		
Frequency	50 / 60Hz 50W		
Max. power			
Safety	Motor Overload Protection, Fuse		
OTHER DATA			
Applicable capsules	 Pall, Minimate[™] TFF Capsules Sartorius, Sartocon Slice 50 Merck, Pellicon[®] XL 50 Device Contact us for capsule compatibility of others. 		

* Each unit includes a peristaltic pump, a reservoir, pressure gauges, a magnetic stirrer and tubing.



Plug & start Integrated with pump, liquid reservoir and pressure gauges. Plug the tube, add samples and start processing.

TFF Capsule

	Membrane Material: Omega (PES), Effective Filtration Area: 50 cm ² * MWCO : Molecular Weight Cut-off		Effective Filtration Area: 50 cm ²		Recommend for EVs* and Exosomes Isolatic * EVs : Extracellular Vesicles		
Catalog number	MWCO*	Catalog number	MWCO*	Catalog number	Description	Pore size	
PALOA001C12	1K	PALOA070C12	70K	HBM-TFF1	TFF-Easy Polysulfone hollow fibers	5 nm	
PALOA003C12	ЗK	PALOA100C12	100K	HBM-TFFMV	TFF-MV Polyethersulfone hollow fibers	150 nm	
PALOA005C12	5K	PALOA300C12	300K	HBM-TFFEVS-S	TFF-EVs Polyethersulfone hollow fibers	50 ± 10 nm	
PALOA010C12	10K	PALOA500C12	500K				
PALOA030C12	30K	PALOA990C12	1000K				
PALOA050C12	50K						



HansaBioMed TFF Hollow Fibers (1/pk)





Low Profile Magnetic Stirrer

Features

Lighter & thinner

Low profile with only 12 mm height, MS 100 can fit perfectly in tight lab and hood spaces. Carry or store it everywhere.

Durable & safe

Chemical-resistant and water-proof casing with slip-proof pads. Making MS 100 stirrer durable and safe to use.

Magnetic coil technology

Motorless driven mechanism with no moving parts ensures lighter, quieter, wear-free and maintenance-free operation.

Mix more efficiently

2 stirring options increase the mix efficiency: (1) One direction: Spin in counterclockwise direction. (2) Auto-reverse: Spin reversely every 45 seconds for more evenly mix.

International certification

CE certification IP 65 protection **RoHS** certification

One-Year Warranty

Applications

- Basic stirring
- Mix solutions
- Reagent preparation

Ordering Information

203100-01(02)

MS 100, Low Profile Magnetic Stirrer with AC100-240 adaptor, US plug (EU plug)

203100-10

PTFE magnetic stirring bar, Ø 3.6 x 25 mm



Specification

Model	MS 100
PERFORMANCE DATA	
Max. stirring quantity (H ₂ O)	1L
Speed range	20 ~ 1500 rpm
Stirring direction	Counterclockwise, Reverse stirring
Timer	(1) Countdown timer: 0:05~9:00 (H:MM) (2) Continuous mode: 0:00 (H:MM)
Stirring bar length	25 ~ 30 mm
Set-up plate material	Polyester (PE)
Set-up plate dimension	Ø 10 cm
Net weight	200 g
Dimension (LxWxH)	18 x 11 x 1.2 cm
ELECTRICAL DATA	
Power input	DC12V, 0.3A
Frequency	50 / 60Hz
Max. power	3W

* Each unit includes a magnetic stirrer and a stirring bar

ROCKER

Dry Bath

Features

A multi-function machine

Sahara 310 / 320's heating tank is made of one-piece aluminum with PTFE coating that allows purposes as: (1) Dry bath: Blocks, armor beads (2) Water bath

- User-friendly programs Built-in memory can store up to 3 user-definable heating programs. Timer can be set infinite or up to 99:59 (HH:MM).
- Programmable timer & beep alarm Sahara dry bath stops heating automatically with beeping alarm after the program is complete.
- International certification CE certification
- One-Year Warranty

Applications

- Molecular biology experiment
- Biochemistry experiment
- Bead bath / Water bath





Ordering Information

179310-11(22) Sahara 310, Dry Bath (without block) AC110V, 60Hz (AC220V, 50Hz)

179320-11(22)

Sahara 320, Dry Bath (without block) AC110V, 60Hz (AC220V, 50Hz)

179300-00 Armor beads (1 block capacity)





The optional blocks



179300-03

Specification

PERFORMANCE DA

Capacity

Display

Tank Temperature range Resolution

lemperature accura
Temperature homo
Timer
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Voltage
Frequency

Max. power Safety



179300-1

+ Aluminum Block (LxWxH): 80 x 100 x 50 mm

Hole	Holo		
Diameter	Hole Depth	Max. Capacity	Applicable Tube
6.4 mm	17 mm	64 well	0.2 mL
8.2 mm	25 mm	20 well	0.5 mL
10.2 mm	33 mm	20 well	1.5 mL, 2.0 mL
13 mm	36 mm	20 well	Kahn Tube
20 mm	45 mm	12 well	
25 mm	45 mm	6 well	
17 mm	45 mm	12 well	5 mL, 15 mL
	6.4 mm 8.2 mm 10.2 mm 13 mm 20 mm 25 mm	6.4 mm 17 mm 8.2 mm 25 mm 10.2 mm 33 mm 13 mm 36 mm 20 mm 45 mm 25 mm 45 mm	6.4 mm 17 mm 64 well 8.2 mm 25 mm 20 well 10.2 mm 33 mm 20 well 13 mm 36 mm 20 well 20 mm 45 mm 12 well 25 mm 45 mm 6 well

	Sahara 310		Sahara 320		
TA Contract of the second s					
	1 block		2 blocks		
	OLED				
	Integrated, PTFE	-coated tank			
	R.T. +5°C ~ 150°C	C			
	0.1°C				
су	± 0.2°C (@37°C)				
geneity	± 0.2°C (@37°C)				
	(1) Countdown t (2) Counter: 00:0	imer: 00:01~99:59 00 (HH:MM)	(HH:MM)		
	2.3 Kg		3.0 Kg		
	27 x 19 x 11 cm		35 x 19 x 11 cm		
	110V	220V	110V	220V	
	50 / 60Hz		50 / 60Hz		
	120W		240W		
	Overheat Protec	tion (170°C)			



Microplate Vacuum Manifold



Features

- Simplifying operation WelVac 200 is designed to replace traditional centrifuges with vacuum source to simplify purification process of plasmid DNA, ssDNA, RNA, genomic DNA, viral nucleic acids, etc.
- Improved efficiency WelVac vacuum manifold provides rapid and continuous sample purification without repetitive centrifugation processes.
- Multi-use of one machine Uniquely designed column adaptor board and luer connector make WelVac 200 highly compatible with various kinds of spin column and 96-well microplate.
- International certification CE certification CSA certication (Rocker 300) IP 30 protection (Rocker 300) RoHS certification (Rocker 300)
- Two-Year Warranty (Rocker 300 & WelVac 200)

Applications

- DNA purification
- RNA purification
- Gel purification
- PCR clean up

Ordering Information

195200-00

WelVac 200, Microplate Vacuum Manifold, complete set includes the following 4 fitting parts:

195200-42

Spin column adaptor board (24 holes) **195200-43** Luer connector (25/pk) 195200-44 Luer stopper (25/pk) 195200-45 Waste tray 195210-11(22)

WelVac 210, Microplate Vacuum Manifold System, AC110V, 60Hz (AC220V, 50Hz), complete set includes: *Rocker 300, Vacuum Pump *WelVac 200, Microplate Vacuum Manifold *Silicone tube 197000-12

PES vacuum bottle, 1200 mL





Specification

Model	WelVac 200	WelVac 210		
PERFORMANCE DATA				
Max. vacuum	-	99 mbar abs.		
Max. flow rate	-	23 L/min @60Hz	20 L/min @50Hz	
Waste bottle	(Optional) PES vacuum bottle,	1200 mL		
Hose barb	ID8	ID8	ID8	
Noise level	-	50 dB 6.8 Kg 60 x 14 x 20 cm		
Net weight	2.6 Kg			
Dimension (LxWxH)	23 x 12 x 10 cm			
ELECTRICAL DATA				
Voltage	-	110V	220V	
Frequency	-	50 / 60Hz		
Max. power	-	65W (1/8 HP)	60W (1/8 HP)	
Max. current	-	0.7A	0.3A	
Safety	-	Overheat Protect	ion	
MATERIAL				
Vacuum manifold	Aluminum			
Column adaptor board	PC			
Gasket / O-ring	Rubber			
Luer connector / stopper	Silicone			

Gravity-fed Microplate Washer

Features

Economical ELISA washer

Biowasher 100 is a gravity-fed manual washer, no electricity needed. Ideal for lab scale ELISA washing of 96-well microplate, 8-tube strip, or similar applications.

Wise-tilt stand

A secure stand to support flat or tilted plate to reduce liquid residue and be more ergonomic.

No cross-contamination

The 8-channel dispenser is designed with 2 rows of tubes with different heights to prevent cross-contamination in each well. - Short tubes: Distribute washing solution - Long tubes: Suck the waste liquid by vacuum

Durable and autoclavable

The wetted parts of 8-channel dispenser are made of PTFE and SS304, making it resistant to chemical and fully autoclavable.

- International certification CE certification (Lafil 200) IP 41 protection (Lafil 200) RoHS certification (Lafil 200)
- One-Year Warranty (Lafil 200)

Applications

- ELISA washing
- ▶ 96-well microplate washing

Ordering Information

196100-00

BioWasher 100, Microplate Wash Kit, includes following 3 parts: 196811-00 8-channel dispenser 196100-02 Microplate stand 196100-03 Spare parts kit

196100-01(02)-T

* Silicone tube

PP buffer bottle, 4000 mL

196100-05

199100-68

BioWasher 100 - T, Gravity-fed Microplate Washer, complete set includes: * BioWasher 100, Microplate Wash Kit * PP buffer bottle, 4000 mL * Lafil 200, Vacuum Pump

* PP vacuum bottle with quick-coupling connector, 4000 mL

Silicone tube, Ø 4.2 x 8 mm, 200 cm

196100-31 Dynalon® Dura-Clamp tubing flow valve, accepts tubing OD 3.2 ~ 11 mm

Buffer bottle Waste bottle Hose barb Noise level Net weight Dimension (LxV Power input Max. power 8-channel dispe Microplate stand

PERFORMANCE

Max, vacuum

Max. flow rate





BioWasher 100 - T

* Buffer bottles should be placed 60 cm higher than the stand to ensure smooth gravity feeds.

Specification

	BioWasher 100	BioWasher 100 - T
DATA		
	-	213 mbar abs.
	-	10 L/min
	-	4L PP buffer bottle
	-	4L PP vacuum bottle
	ID5	ID5
	-	50 dB
	560 g	4.5 Kg
VxH)	20 x 15 x 8 cm	75 x 29 x 40 cm
TA		
	-	DC12V, 1.5A
	-	18W
enser	PTFE, SS304	
d	Acrylic	



Accessories

Ultrasonic Cleaner

Features

Degassing function All Soner ultrasonic cleaners are programmed with degassing modes to maintain performance of cavitation.

- Industrial-level transducer All Soner ultrasonic cleaners are equipped with industrial-level transducers to ensure durability.
- Lower frequency With 35 kHz frequency, Soner ultrasonic cleaners perform extraordinarily well on removing stains and particles from large surfaces.
- Stainless steel construction The cleaning tank is made of SS304, making it durable and easy to clean.
- International certification CE certification
- One-Year Warranty

Applications

- Solvent degassing HPLC mobile phase
- Vessels, tools cleaning cuvette, tube, glassware optical lenses, medical tools
- Components cleaning PCB, electronics, hardware parts

Specification

Soner 203



Soner 206



Soner 210



Soner 220



* Each unit includes a bracket and a stainless steel cover.

-								
Model	Soner 203	Soner 203H	Soner 206	Soner 206H	Soner 210	Soner 210H	Soner 220	Soner 220H
PERFORMANCE DATA								
Tank capacity	3L		6L		10L		20L	
Frequency	35 kHz		35 kHz		35 kHz		35 kHz	
Timer	1 ~ 99 min		1 ~ 99 min		1 ~ 99 min		1 ~ 99 min	
Heating	-	R.T. ~ 60°C	-	R.T. ~ 60°C	-	R.T. ~ 60°C	-	R.T. ~ 60°C
Degas	Yes		Yes		Yes		Yes	
Drain	-		-		Yes		Yes	
Net weight	4.0 Kg	4.1 Kg	5.5 Kg	5.7 Kg	7.5 Kg	7.7 Kg	14.5 Kg	15.0 Kg
Tank dimension (LxWxH)	24 x 14 x 10 c	m	30 x 15 x 15 cn	n	30 x 24 x 15 c	m	50 x 30 x 15	cm
Overall size (LxWxH)	27 x 16 x 24 c	m	33 x 18 x 29 cm 30		36 x 27 x 31 cm		57 x 33 x 33 cm	
ELECTRICAL DATA								
Voltage	110V	220V	110V	220V	110V	220V	110V	220V
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Ultrasonic power	100W		180W		200W		500W	
Heating power	-	88W	-	170W	-	270W	-	550W
Safety	Fuse		Fuse		Fuse		Fuse	



Soner 206H



Soner 210H





Soner 220H

	Bracket (standard)	Basket (optional)	Beaker Positioning Cover (optional)
			80
	Ideal for big parts	Ideal for small parts	For indirect beaker cleaning
for Soner 203/203H	188203-31	188203-30	188200-31
for Soner 206/206H	188206-31	188206-30	188200-31
for Soner 210/210H	188210-31	188210-30	188200-32
for Soner 220/220H	188220-31	188220-30	188200-33

Ordering Information

188203-11(22) Soner 203, Ultrasonic Cleaner, AC110V, 60Hz (AC220V, 50Hz) 188204-11(22) Soner 203H, Ultrasonic Cleaner (with heating function), AC110V, 60Hz (AC220V, 50Hz) **188206-11(22)** Soner 206, Ultrasonic Cleaner, AC110V, 60Hz (AC220V, 50Hz) **188207-11(22)** Soner 206H, Ultrasonic Cleaner (with heating function), AC110V, 60Hz (AC220V, 50Hz) 188210-11(22) Soner 210, Ultrasonic Cleaner, AC110V, 60Hz (AC220V, 50Hz) 188211-11(22) Soner 210H, Ultrasonic Cleaner (with heating function), AC110V, 60Hz (AC220V, 50Hz) **188220-11(22)** Soner 220, Ultrasonic Cleaner, AC110V, 60Hz (AC220V, 50Hz) 188221-11(22) Soner 220H, Ultrasonic Cleaner (with heating function), AC110V, 60Hz (AC220V, 50Hz)



FOOD **ANALYSIS**

Colony Counter Lab Burner **Dispensing Peristaltic Pump Multi-Tube Vortex Mixer**

Colony Counter

Features

Pressure sensor design, no contamination

> Pressure sensor design allows users to operate with any marking pens. No worries about sample spoiled or contaminated.

4-display panel

The panel shows up to 4 counts, including current and the most recent three counting(s).

User-friendly design

(1) Auto average: Calculating average of multiple counts with a single press. (2) BACK button: Opportunity to count back when over-counting by mistake.

High compatibility

Compatible with Petri-dishes (various diameters), Petrifilm[™], MC Media Pads[™], Compact Dry[™], EasyPlate[™], and filtration membranes.

International certification CE certification

Two-Year Warranty

Applications

Microbiology colony counting Total bacteria counting Total coliform counting

Ordering Information

175330-01(02) Galaxy 330, Colony Counter with AC100-240V adaptor, US plug (EU plug)

175331-01(02) Galaxy 330, Colony Counter with software,

AC100-240V adaptor, US plug (EU plug) 175330-12

Software Package for Galaxy 330 (Include a 16GB USB and connecting cable)

175200-34-2 Magnifier, 1.5X 175330-09-1

Adaptor for Petrifilm[™] / MC-Media Pads / Compact Dry[™]/ EasyPlate[™]

Raw Aug. Total Aug. Finish Time 14 4 > > + + 22 fecets

Specification

Model
PERFORMANCE DAT
Display
Magnification
Petri dish diameter
Optinol adaptor
Storage
Operating function
Illumination
Pressure sensitivity
Acoustical counting
Net weight
Dimension (LxWxH)
ELECTRICAL DATA
Power input
Max. power
Output







(Optional) Galaxy 330 PC software

Use the software and make dilution rate calculation, data tracing and summary easier in csv file format.

	Galaxy 330
A	
	3-digit, LED panel
	2X
	Ø 60 mm, and Ø 90 ~ 150 mm
	Petrifilm™, MC Media Pads™, Compact Dry™, EasyPlate™
	100 records
	Average, Zero reset, Count back
	LED (adjustable)
	Adjustable
signal	Adjustable
	5.6 Kg
	35 x 30 x 37 cm
	DC12V, 0.8A
	10W
	USB



Lab Burner

Features

Reliable & professional (1) Metal-made base ensures steadiness and spill-proof. (2) Compliant to CE safety regulation for gas-fired appliance.

Stable flame

(1) Superior gas inlet design ensures sufficient butane feed and stable flame outputs. (2) Burns up to 1300°C for max. 60 minutes.

Easy yet safe

(1) Triggered by Piezo Igniter, providing instant flame at one press. (2) Additional safety lock provides additional security. (Dragon 100)

- International certification CE certification
- One-Year Warranty

Applications

- Sterilizing
- Welding
- Heating
- Cooking

Ordering Information

177100-00

Dragon 100, Torch Burner 177200-00

Dragon 200, Lab Burner

177220-00

Dragon 220, Lab Burner

177200-T

- Dragon 200 T, Lab Burner Set includes:
- * Dragon 200, Lab Burner
- * Lab burner stand
- * Ceramic net mesh (14 x 14 cm)

177200-10

Lab burner stand 177200-12

Ceramic net mesh (14 x 14 cm)





Specification

Dragon 220

ROCKER

Model	Dragon 100	Dragon 200	Dragon 200 - T	Dragon 220			
PERFORMANCE DATA	PERFORMANCE DATA						
Max. temperature	1300 °C	1300 °C	1300 °C	1300 °C			
Fuel tank capacity	40 g	35 g	35 g	35 g			
Working time	60 min	60 min	60 min	60 min			
Safe switch	Yes	-	-	-			
Net weight	380 g	410 g	1235 g	425 g			
Dimension (LxWxH)	8 x 14 x 16 cm	8 x 12 x 9 cm	15 x 17 x 13 cm	8 x 12 x 9 cm			
OTHER DATA							
Equipped with	-	-	Lab burner stand Ceramic net mesh	-			

Electric Sterilizer

Features

Fuel-free

Dragon 300 / 320 are electric burners for rapid sterilization. By generating heat from electricity, Dragon 300 / 320 is fuel-free and free of the risks of cross-contamination that may caused by open flame.

Fast & stable heating

Max. temperature is up to 850°C. Powerful heating elements ensure fast and stable heating.

Wide entrance

With much wider entrance, Dragon 320 can hold objects with larger head diameter up to 37 mm.

User-friendly & easy

Weighted base, loop rack and adjustable chamber angle (from 45° to 75°) make Dragon 300 / 320 handy and easy to use inside laminar flow hoods or anaerobic chambers.

- International certification CE certification
- One-Year Warranty

Applications

- Culture tube sterlization
- Inoculating loops and needles sterlization

Ordering Information

177300-11(22)

Dragon 300, Electric Sterilizer AC110V, 60Hz (AC220V, 50Hz)

177320-11(22)

Dragon 320, Electric Sterilizer AC110V, 60Hz (AC220V, 50Hz)

Specification

PERFORMANCE DAT Max. temperature Standby temperatur Chamber diameter Net weight Dimension (LxWxH) Voltage Frequency Max. power Safety



	Dragon 300		Dragon 320	
A				
	850 °C			
re	600 °C			
	16 mm		37 mm	
	1.1 Kg		1.1 Kg	
	17 x 9 x 21 cm		19 x 9 x 22 cm	
	110V	220V	110V	220V
	50/60Hz		50 / 60Hz	
	180W		180W	
	Fuse		Fuse	



Dispensing Peristaltic Pump

Dispensing Peristaltic Pump



Keep-in-place Hidden magnet inside pump keeps the

dispenser in place smartly and tidy.

		TYGON S3™ E-3603	Biosicon	PHARMED [®] BPT	Dispensing Kit	
	Laboratory applications	Biocompatibility & GMP compliance	Biocompatibility & sensitive bioprocessing			
Tubing	ID	Wall thickness	Autodavable	Autodavable	The contract of the contract o	
16#	3.1 mm	1.6 mm	185600-48	185600-55	184100-48	185600-51-16
25#	4.8 mm	1.6 mm	185600-54	185600-57	185600-50	185600-51-25
17#	6.4 mm	1.6 mm	185600-53	185600-56	185600-49	185600-51-17

Features

- Design for microbiological test Pump's in-built guick-start modes:
- Tube (2.5 mL, 5 mL, 9 mL)
- Petri dish (15 mL, 18 mL, 20 mL)
- Bottle (90 mL, 225 mL, 450 mL)

Ergonomic & comfortable

Ergonomic dispenser makes the grip more comfortable. Effortless dispensing with a single click.

► Keep-in-place Hidden magnet inside pump keeps the dispenser in place smartly and tidy.

Accurate dispensing

Accurate dosage volume from 1 mL to 9999 mL ensured by back-suction function.

Make calibration easy

No more repetitive number entries, Buller 600 pump calls all required parameters automatically. Finish calibration in a single tap.

In compliance with ISO 7218

Built-in microbial program in compliance with ISO 7218 guidance, ideal for dispensing media and dilute buffer in all microbiological tests.

International certification CE certification IP 33 protection **RoHS** certification

One-Year Warranty

Applications

Microbiological test Media dispensing and dosing

Buffer dispensing and dosing All kinds of sterile solution dispensing

- Biomedical liquid transferring Blood, protein, tissue, buffer, liquid medicine, etc.
- Pharmaceutics

Ordering Information 185601-01(02)

Buller 600 - DSP, Dispensing Peristaltic Pump, AC100-240V, 50/60Hz, US plug (EU plug)

185600-01(02)

Buller 600, Dispensing Peristaltic Pump, AC100-240V, 50/60Hz, US plug (EU plug)

184100-15

Normal flow rate pump head, ~ 1950 mL/min 184100-20

High flow rate pump head, ~ 2130 mL/min





ROCKER

185600-01(02) Buller 600 Basic model without a dispenser.

Specification

Model	Buller 600 - DSP		
PERFORMANCE DATA			
Speed	1 ~ 600 rpm		
Speed accuracy	1 %		
Max. flow rate	1950 mL/min		
Control type	Digital, variable-speed		
Channel	1		
Handling dispenser	(Standard) start/stop control		
Net weight	5.8 Kg		
Dimension (LxWxH)	20 x 33 x 24 cm		
ELECTRICAL DATA			
Voltage	100-240V		
Frequency	50 / 60Hz		
Max. power	80W		
Motor	Step Motor		
External inputs	0~5V / 4~20mA / 0~10kHz		
Remote control	RS 232		
Safety	Fuse		

* Each unit includes a normal flow rate pump head, a handling dispenser, a nozzle, a sink and a silicone tube.







Design for microbiological test

Built-in microbial programs are ideal for dispensing media and dilute buffer.

Multi-Tube Vortex Mixer

Features

Innovative 3D shaking motion

By adopting special 3D oscillation with a maximum speed of 3000 rpm, the samples can be mixed thoroughly.

Designed for QuEChERS

The rack can be fully assembled and disassembled, making it easy to operate and clean. It accommodates 15 mL or 50 mL centrifuge tubes, making it particularly suitable for QuEChERS.

Dual modes

Built-in continuous and intermittent modes, users can choose the mode best suited to their samples and methods, ensuring maximum flexibility.

High safety

The instrument operates only when the safety shield is securely closed and immediately stops when the shield is opened, enhancing operational safety and preventing liquid splashes.

```
Compact size without displacement
  Tornado 100 is 80% smaller than traditional
  high-speed shakers and is designed to prevent
  displacement.
```

International certification CE certification **RoHS** certification

One-Year Warranty

Applications

- QuEChERS
- Animal drug test
- Pesticides test
- Sample pretreatment: blending

Ordering Information

193100-01(02) Tornado 100, Multi-Tube Vortex Mixer, AC100-240V, 50/60Hz, US plug (EU plug) 193000-01

Rack, 50 mL x 6 + 15 mL x 6



Specification

Model	Tornado 100			
PERFORMANCE DATA				
Speed	0 ~ 3000 rpm (w/o sample)			
Timer	(1) Countdown timer: 1 ~ 240 min			
	(2) Counter: 0 ~ 999 min			
Operation mode	Continuous mode			
operation mode	Intermittent mode			
Applicable vials	15 mL centrifuge tube (Ø 16.5 ~ 17.0 mm)			
	50 mL centrifuge tube (Ø 28.6 ~ 29.6 mm)			
Max. loading	420 g			
Display	OLED			
Noise	65 dB @Max. rpm			
Net Weight	12.1 Kg			
Dimension (LxWxH)	36 x 30 x 24 cm (with safety shield)			
ELECTRICAL DATA				
Voltage	100-240V			
Frequency	50 / 60Hz			
Max. power	130W			
Safety	Safety Shield, Overheat Protection, Fuse			

Multi-Tube Vortex Mixer



		motion um speed of 30 an be mixed tho	
	Арр	licable Tube	
	15 mL	Ø 16.5 ~ 17.0 mr	n
	50 mL	Ø 28.6 ~ 29.6 mr	n
de and intermittent mode fo	or choices.		
rpm			



COD Reactor

Features

WATER

ANALYSIS

COD Reactor / Detector

Multiparameter Colorimeter

CR 25

CD 200

Graphite Hotplate

WD 100

Mars 320 / 430

Buffer Solutions

3M KCI

ISO compliant

CR 25 COD reactor is used to digest closed reflux COD vial according to ST-COD method (ISO 15705:2002) and can meet USEPA 410.4. It is easier and safer than traditional open reflux titrimetric method.

Designed for COD tests

CR 25 is pre-programmed with 6 heating programs for quick and easy start. Most popular programs include: (1) COD: 150°C, 120 min (Standard mode) (2) COD2: 165°C, 20 min (Preheated mode)

- User-definable programs Built-in with 2 user-definable programs that allows manual adjustments for temperature (30°C ~ 200°C) and time (1 ~ 999 min).
- Programmable timer & beep alarm CR 25 stops heating automatically with beeping alarm after the program is complete.
- International certification CE certification
- One-Year Warranty

Applications

► Waste water test from factories

Water quality test in lake, pond and river

Ordering Information

179250-11 (22)

CR 25, COD Reactor AC110V, 60Hz (AC220V, 50Hz)

179250-43 Protective lid

197010-36 Multi-function test tube rack white base

197010-36-1 Multi-function test tube rack blue base

CR 25

179250-43 (Optional) Protective lid accidents.

Specification

Model Display Temperature range Temperature accura Temperature stability

Built-in programs

Timer Number of vials Applicable vials

Net weight Dimension (LxWxH

Voltage

Frequency Max. power

Safety

ROCKER







Protect users from splattering reagents in



(Optional) Multi-function test tube rack * Rack only, glass tubes NOT included.

	CR 25		
ΓA			
	OLED		
	R.T. +5°C ~ 200°C		
су	±2°C		
у	±1°C		
	 COD program: 150°C / 120 min COD2 program: 165°C / 20 min TP program: 150°C / 30 min TN program: 105°C / 30 min TPN program: 120°C / 30 min TOC program: 105°C / 120 min 		
	(1) Countdown timer: 1 ~ 999 min (2) Continuous mode: On		
	25 vials		
	φ 16 mm		
	5.1 Kg		
)	31 x 19 x 12 cm		
	110V	220V	
	50 / 60Hz		
	350W	350W	
	Anti-heat PTFE plate on the top Overheat Protection (220°C)	of heating block	



COD Detector

Features

Use reagents of your choice

CD 200 detector reads reagents from different brand owners. Pre-programmed with HACH, Lovibond, CHEMetrics, HANNA and Merck parameters, or set up by yourself.

► Wide measure range

CD 200 can measure COD values in 3 different ranges: 10 ~ 150 mg/L, 100 ~ 1500 mg/L and 1000 ~ 15000 mg/L.

Fast detection CD 200 can detect and save COD value in 3 seconds.

Data storage up to 100 records The built-in memory can store up to 100 records for easy access.

- International certification CE certification
- One-Year Warranty

Applications

- Wastewater analysis from factories
- ► Water monitoring, such as surface water and groundwater
- Environment monitoring in lake, pond and river

Ordering Information 198200-01 (02)

CD 200, COD Detector with AC100-240V adaptor, US plug (EU plug)



Specification

Model	CD 200
PERFORMANCE DATA	
Display	LCD with backlight
Brands of reagents	HACH, Lovibond, CHEMetrics, HANNA, Merck
Measure range	10 ~ 150 mg/L, 100 ~ 1500 mg/L, 1000 ~ 15000 mg/L
User-defined curve	4 curves
Light source	LED
Working wavelength	420 nm, 610 nm (automatic)
Detecting time	3 sec
Optical stability	≤ 0.005 Abs / 30 min
Storage	100 records
Data information	Concentration, Sample number, Time
Net weight	0.5 Kg
Dimension (LxWxH)	23 x 13 x 9 cm
ELECTRICAL DATA	
Power input	DC12V, 1.0A
Power supply	DC9V battery or power adaptor
Max. power	1W

Brand	Applicable Reagents
HACH	COD Digestion Vials (2125825 / 2125815 / 2125925 / 2125915 / 2415925)
Lovibond	COD Reagent Tubes (2420720 / 2420721 / 2420722)
CHEMetrics	COD Vials Kit (K-7350S / K-7355 / K-7360S / K-7365 / K-7370S / K-7375)
HANNA	COD Reagent Vials (HI93754A / HI93754B / HI93754C)
Merck	Spectroquant [®] COD Cell Test (1.18751 / 1.18752 / 1.18753)

ROCKER

Multiparameter Colorimeter

Features

4-in-1 portable reader

WD 100 is a portable instrument that reads 4 major water quality measures including COD, Total Phosphorus (TP), Total Nitrogen (TN) and Ammonia Nitrogen (NH³-N).

User-programmable curves

WD 100 allows users to enter up to 11 different curves and increases flexibility in different applications.

Fast detection

Read and save testing records in 3 seconds without preheating. Up to 100 data can be stored automatically.

User-friendly setting

Users can add most frequently used programs into Favorite list, making the access even easier.

- International certification CE certification
- One-Year Warranty

Applications

- Wastewater analysis from factories
- Water monitoring, such as surface water and groundwater
- Environment monitoring in lake, pond and river

Ordering Information

191100-01(02)

WD 100, Multiparameter Colorimeter with AC100-240V adaptor, US plug (EU plug)



Specification

Model	
PERFORMANCE DA	Ì
Display	
Brand of reagents	
Standard program	
User-defined curve	2
Light source	
Working waveleng	1
Detecting time	
Optical stability	
Storage	
Data information	
Net weight	
Dimension (LxWxH	+
ELECTRICAL DATA	
Power input	
Power supply	
Max. power	

Parameters
COD
NH ₃ -N
TP





	WD 100									
ΓA										
	LCD with backlight									
	HACH									
	COD, NH ₃ -N, TP, TN									
	11 curves									
	LED									
h	420 nm, 610 nm (auto	omatic)								
	3 sec									
	\leq 0.005 Abs / 30 min									
	100 records									
	Item, Wavelength, Co	ncentration, Sample nu	mber, Time							
	0.5 Kg									
)	23 x 13 x 9 cm									
	DC12V, 1.0A									
	DC9V battery or powe	er adaptor								
	1W									
	HACH Catalog Num	iber	Link Denne Dive							
	Low Range (LR)	High Range (HR)	High Range Plus (HR plus)							
	2125825 / 2125815	2125925 / 2125915	2415925							
	2604545	2606945								
	2742645	2767245								
	2672245	2714100								



Graphite Hotplate

Graphite Hotplate

Use as hotplate or hotblock X2 Adapts various containers in one instrument. • Hotplate: beakers, flasks, pans, etc. • Hotblock: tubes and vessels. Thermal protector To offer a better heating uniformity and protect fume hood from thermal radiation. Wall-mounted controller Designed for both desk-top and wall-mounted position. Easy to 11 set it outside of fume hood to prevent corrosion.



PTFE

178200-1

78200-12

PP

Glass

197 mm

78200-09

‡ Depth

	Tube Volume								
	15 mL 50 mL 100 m								
PP	178200-15-PP (1000 ea/pk)	178200-50-PP (500 ea/pk)	178200-100-PP (225 ea/pk)						
Borosilicate Glass	178200-15-G (60 ea/pk)	178200-50-G (28 ea/pk)	178200-100-G (18 ea/pk)						
PTFE	178200-15-PTFE (8 ea/pk)	178200-50-PTFE (4 ea/pk)	178200-100-PTFE (2 ea/pk)						
*Max. Operating Temperature • PP:130 °C • Glass / PTFE:200 °C									

◆ Graphite Block (L x W): 295 x 197 mm

	Hole Diameter	Hole Depth	Max. Capacity	Applicable Tube
178200-07	16.5 mm	45 mm	70 well	Ø 16 mm tube
178200-08	20.5 mm	70 mm	54 well	Ø 20 mm tube
178200-09	25.5 mm	90 mm	40 well Ø 25 mm tube	
178200-10	19 mm	85mm	54 well 15 mL digestion tube, Ø 18 mm tube	
178200-11	31 mm	90 mm	24 well	50 mL digestion tube, Ø 30 mm tube
178200-12	47 mm	90 mm	15 well	100 mL digestion tube



Specification

Model	Mars 320	Mars 430				
PERFORMANCE DATA						
Capacity	1 graphite block	2 graphite blocks				
Display	OLED					
Plate material	PTFE-coated graphite					
Temperature range	R.T. +5°C ~ 200°C					
Resolution	1°C					
Temperature accuracy	± 1°C (@150°C)					
Timer	(1) Countdown timer: 00:01~99:59 (HH:MM) (2) Counter: 00:00 (HH:MM)					
Net weight	6.8 Kg	11.0 Kg				
Controller dimension (LxWxH)	18 x 18 x 10 cm					
Hotplate dimension (LxWxH)	36 x 22 x 11 cm	46 x 32 x 11 cm				
ELECTRICAL DATA						
Voltage	220V	220V				
Frequency	50/60Hz	50 / 60Hz				
Max. power	1000W 2000W					
Safety	Overheat Protection (210°C)					

* Each unit includes a controller and a hotplate.

178320-22 Mars 320, Graphite Hotplate AC220V, 50/60Hz

Features

and durable.

Multipurpose usage

purposes.

> 2 heating mode

Built-in 2 heating modes with temperature range from R.T. +5°C ~ 200°C (1) Continuous mode

(2) Countdown mode International certification

CE certification **RoHS** certification

One-Year Warranty

Applications

Heavy metal digestion Acid digestion Heating experiments

Uniform heating technology

178430-22 Mars 430, Graphite Hotplate AC220V, 50/60Hz

Ordering Information

178200-45 PTFE-coated thermal sensor

ROCKER

113



(Optional) PTFE-coated thermal sensor

To monitor the sample temperature in digestion vessels.



100% PTFE-coated graphite, total protection

All Mars graphite plates and blocks are coated with PTFE and provide high corrosion-resistance.





Buffer Solutions

Features

- ► High Accuracy: ± 0.01pH
- ► COA certificate provided with each bottle



Specification

pH Buffer			KCl Buffer				
Cat. No.	Description	Shelf year	Cat. No.	Description	Shelf year		
168400-50	pH 4.01 ± 0.01, 500 mL	2 years	168103-50	3M KCl, 500 mL	2 years		
168700-50	pH 7.00 ± 0.01, 500 mL	2 years					
168100-50	pH 10.01 ± 0.01, 500 mL	1 year					

Chemical Compatibility Guide

This guide should be used as a reference to select the proper pump, filter holder, and accessories with regard to chemical compatibility. The results were tested on raw material whose properties will be affected by many factors. Hence, the data can only serve as a basic guide and do not imply any guarantee of certain properties.

O - Recommended. / ▲ - Limited resistance. / X - Not recommended. / - Data not available.

Chemicals	Formula	ABS	РОМ	РС	PP	PES	PPSU	PTFE	SS316	EPDM	FKM	FFKM
ACIDS												
10% Hydrochloric Acid	HCI	0	0	0	0	0	0	0	Х	0	0	0
20% Sulfuric Acid	H_2SO_4	0	Х	0	0	0	0	0	Х	0	0	0
20% Nitric Acid	HNO	0	Х	0	0	Х	-	0	0	0	0	0
20% Acetic Acid	$C_2H_4O_2$	Х		0	0	0	0	0	0	0	0	0
10% Hydrofluoric Acid	HF	-	Х	0	0	0	-	0	0	0	0	0
Aqua Regia	HNO₃+ 3HCI	Х	Х	Х		Х	-	0	Х	Х	0	0
ALKALIS												
20% Sodium Hydroxide	NaOH	0	0	0	0	0	0	0	0	0	0	0
20% Potassium Hydroxide	КОН	0	0	Х	0	0	-	0	0	0	0	0
28% Aqueous Ammonia	$\rm NH_3$	0	Х	Х	0		-	0	0	0	0	0
ALCOHOLS												
Methanol	CH₃OH	Х	0	0	0	0	0	0	0	0	Х	0
Ethanol	C ₂ H ₅ OH	0	0	0	0		0	0	0	0	0	0
Propanol	C ₃ H ₈ O	-	0	-	0	0	-	0	0	0	0	0
Isopropanol	C ₃ H ₈ O	0	0	0	0	0	0	0	0	0	0	0
n-Butanol	$C_4H_{10}O$	Х	0	0	0	0	0	0	0	0	0	0
KETONES												
Acetone	C ₃ H ₆ O	Х	0	Х	0	Х	Х	0	0	0	Х	0
Methyl Ethyl Ketone (MEK)	C_4H_8O	Х	0	Х	0	Х	-	0	0	0	Х	Х
OTHERS												
Acetonitrile	CH ₃ CN	-	Х	Х	0	Х	-	0	0	0	Х	0
10% Hydrogen Peroxide	H_2O_2	0	Х	0	0	0	-	0	0		0	0
5% Bleach (Sodium Hypochlorite)	NaClO	0	Х	0	0	0	-	0	0	0	0	0
Mineral Oil	-	0	0	0	0	0	0	-	0	Х	0	0
Sea water	-	-	-	-	-	-	-	-		-	-	-

Recommendations are based on a 24-hour static exposure to the test fluid at RT ($21^{\circ}C/71^{\circ}F$).

