



2023 ~2024 **Product Guide**

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

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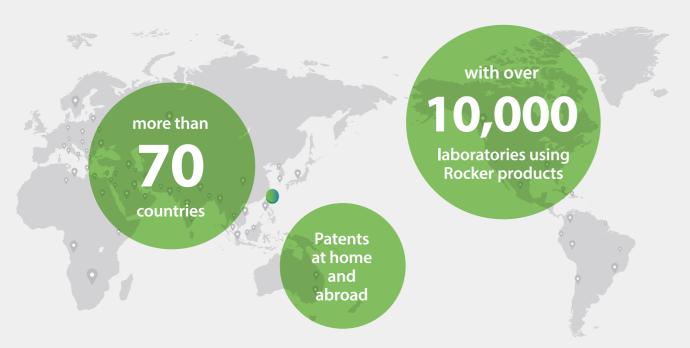




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Global Distribution Network



About Rocker®

Established in 2007, Rocker Scientific Co., Ltd. provides a variety of professional vacuum filtration solutions for laboratory and industrial customers in the fields of food, water, micro-organisms testing, molecular biology lab and purification. Rocker Scientific fulfills in-house R&D, manufacture and distribution in compliance with ISO 9001-2015 quality management system; the majority of products are CE/CSA/RoHS certified. MF magnetic filter holder wins " Taiwan Excellence Award 2019".

Through devoting to R&D constantly, Rocker Scientific has been granted numerous patents in various countries and has successfully established a sales network covering more than 70 countries with over 10,000 laboratories using Rocker products. "Rocker" has become the world-leading brand of laboratory vacuum filtration system by our commitment to continuous innovation to provide customers with safe, efficient and ecofriendly solutions.

Company Philosophy

Passion

Enthusiasm to succeed at everything we do

Innovation

Creating new ways to solve challenges

Integrity

Consistently providing solutions according to our values

Full understanding of what the customer and user requires

Rocker Scientific Co., Ltd.

William Horng, Mar. 2023

LABORATORY PUMP

Oil Free Vacuum Pump

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LIFE SCIENCES

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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



Overheat protection

Pump shuts down when overheated and resumes once

cooled down.

Small & space-saving

The compact design makes
Rocker pumps light, space-saving and
easy-to-carry for various applications.



Prote[™] overflow protection

Prevents liquid from being sucked into the pump.

(*Rocker 300/300DC/400/410/430)









Quieter and more stable

Enhanced rubber assemblies make all Rocker pumps work much quieter and more stable.



Air inlet protection

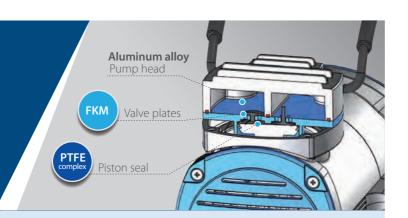
Filter cartridge absorbs particle and moisture to prolong pump life.



\ Quality compliance

- CE certificationCSA certification
- IP 30 protection
- RoHS certification

Oil Free Vacuum Pump Guide





Rocker 300

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



Rocker 900

Max. vacuum : 85 mbar abs. Max. flow rate : 100 (90) L/min



Rocker 300DC

Max. vacuum : 99 mbar abs. Max. flow rate : 25 L/min



Rocker 901

Max. vacuum : 85 mbar abs. Max. flow rate : 120 (100) L/min



Rocker 400

Max. vacuum : 99 mbar abs. Max. flow rate : 37 (34) L/min



Rocker 910

Max. vacuum : 25 mbar abs. Max. flow rate : 55 (45) L/min



Rocker 410

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



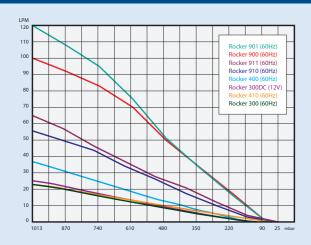
Rocker 911

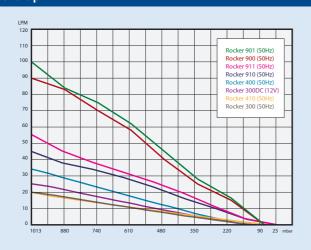
Max. vacuum : 25 mbar abs. Max. flow rate : 65 (55) L/min

* 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





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	Rocker 300		Rocker 300DC		
PERFORMANCE DATA	PERFORMANCE DATA				
Max. vacuum	99 mbar abs.		99 mbar abs.		
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	25 L/min		
Hose barb	ID8		ID8		
Noise level	50 dB		50 dB		
Net weight	4.1 Kg		3.5 Kg		
Dimension (LxWxH)	27 x 14 x 20 cm		27 x 12 x 17 cm		
ELECTRICAL DATA					
Voltage	110V	220V	DC12V		
Frequency	50 / 60Hz		-		
Max. power	65W (1/8 HP)	60W (1/8 HP)	35W (1/8 HP)		
Max. current	0.7A	0.3A	3.0A		
Safety	Overheat Protection		Overheat Protection		
OTHER DATA					
Equipped with	Vacuum regulator Overflow protection	on / 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

-					
Model	Rocker 400		Rocker 410		
PERFORMANCE DATA	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		5.2 Kg	
Dimension (LxWxH)	31 x 14 x 20 cm	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	on	
OTHER DATA					
Equipped with	Vacuum regulator Overflow protection / Filter cartridge		Vacuum regulator Overflow protection	on / 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

▶ Two-Year Warranty

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	Rocker 900		Rocker 901	
PERFORMANCE DATA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Max. vacuum	85 mbar abs.		85 mbar abs.	
Max. flow rate	100 L/min @60Hz	90 L/min @50Hz	120 L/min @60Hz	100 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.

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)





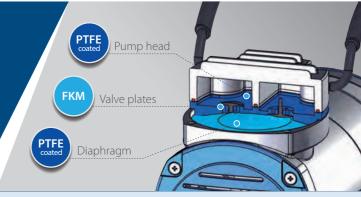
Specification

Model	Rocker 910		Rocker 911		
PERFORMANCE DATA	N .				
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		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	on	
OTHER DATA					
Equipped with	Vacuum regulator Filter cartridge		Vacuum regulator		

^{*} Overflow protection is not included.

PTFE Coated Chemical Resistant

Vacuum Pump Guide



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



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



Rocker 900C

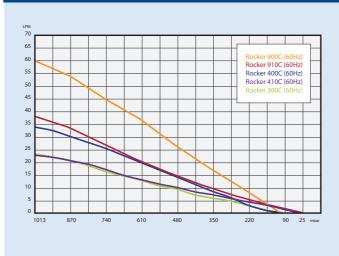
Max. vacuum: 99 mbar abs. Max. flow rate: 60 (55) L/min

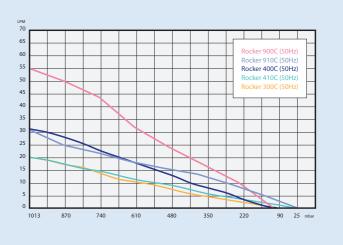


Rocker 910C

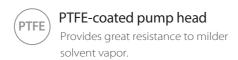
Max. vacuum: 25 mbar abs. Max. flow rate: 37 (31) L/min

Pumping Speed Graph





PTFE Coated Chemical Resistant Vacuum Pump





• RoHS certification

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 & quiet 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)



Rocker 300C

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

Specification

Model	Rocker 300C		
PERFORMANCE DATA			
Max. vacuum	99 mbar abs.		
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	
Hose barb	ID8		
Noise level	50 dB		
Net weight	4.1 Kg		
Dimension (LxWxH)	29 x 14 x 20 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		
OTHER DATA			
Equipped with	Glass moisture trap Vacuum regulator		

ROCKER

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 dryer
- 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

Model	Rocker 400C		Rocker 410C		
PERFORMANCE DATA	RFORMANCE DATA				
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 tra 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)



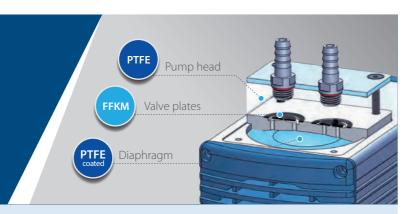


^{*} For aggressive solvents and solutions, please refer to Chemker pumps.

Specification

Model	Rocker 900C		Rocker 910C	
PERFORMANCE DATA				
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	

Chemical Resistant Vacuum Pump Guide





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



Chemker 600

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



Chemker 610

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



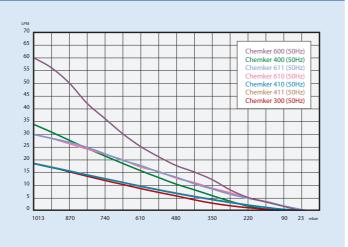
Chemker 611

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

* The value in () is the max. flow rate at 50Hz.

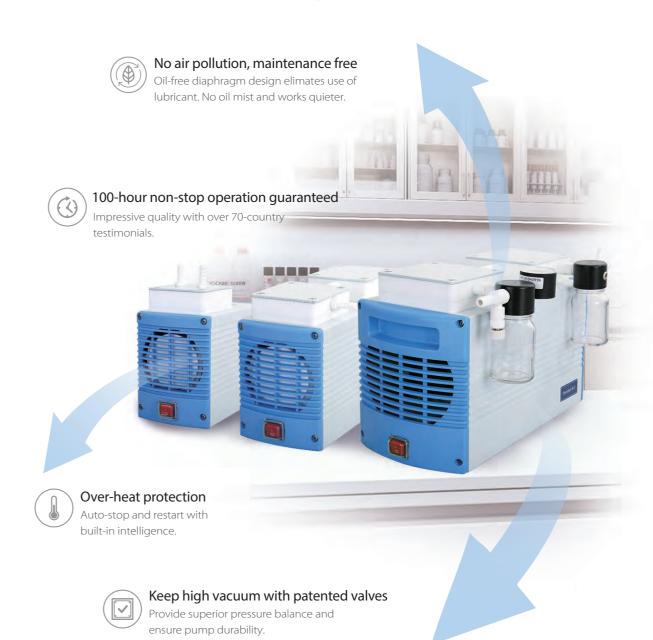
Pumping Speed Graph

Chemker 600 (60Hz) Chemker 400 (60Hz) Chemker 411 (60Hz) Chemker 411 (60Hz) Chemker 411 (60Hz) Chemker 410 (60Hz)



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)

^{**} The mbar value is the gas particles left in the system, the less particles left in, the higher vacuum it is.

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.

▶ 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	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.

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
- Gel dryer
- ► 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)



Chemker 410



Chemker 411

Specification

Model	Chemker 410		Chemker 411	
PERFORMANCE DATA				
Max. vacuum	10 mbar abs.		10 mbar abs.	
Max. flow rate	20 L/min @60Hz	18 L/min @50Hz	20 L/min @60Hz	18 L/min @50Hz
Hose barb	ID8		ID8	
Noise level	52 dB		52 dB	
Net weight	7.0 Kg		7.4 Kg	
Dimension (LxWxH)	26 x 15 x 18 cm		26 x 24 x 19 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50/60Hz		50 / 60Hz	
Max. power	90W (1/6 HP)	90W (1/6 HP)	90W (1/6 HP)	90W (1/6 HP)
Max. current	1.2A	0.5A	1.2A	0.5A
Safety	Overheat Protection		Overheat Protection	
OTHER DATA				
Equipped with	-		Glass moisture trap 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)



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



Chemker 610

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)



Specification

- -					
Model	Chemker 610		Chemker 611		
PERFORMANCE DATA	PERFORMANCE DATA				
Max. vacuum	7 mbar abs.		7 mbar abs.		
Max. flow rate	34 L/min @60Hz	30 L/min @50Hz	34 L/min @60Hz	30 L/min @50Hz	
Hose barb	ID10		ID10		
Noise level	60 dB		60 dB		
Net weight	13.3 Kg	13.3 Kg		13.7 Kg	
Dimension (LxWxH)	35 x 16 x 23 cm	35 x 16 x 23 cm		35 x 20 x 24 cm	
ELECTRICAL DATA					
Voltage	110V	220V	110V	220V	
Frequency	50 / 60Hz		50 / 60Hz		
Max. power	220W (1/3 HP)	200W (1/3 HP)	220W (1/3 HP)	200W (1/3 HP)	
Max. current	2.0A	1.2A	2.0A	1.2A	
Safety	Overheat Protection		Overheat Protection	n	
OTHER DATA					
Equipped with	-		Glass moisture trap Vacuum regulator		

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		

Vacuum Controller



Auto evaporation mode

to 10 steps per program.

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



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

Model	DC Chem 610 Pro
PERFORMANCE DATA	
Max. vacuum	7 mbar abs.
Max. flow rate	37 L/min
Measuring range	1100 ~ 0 mbar abs.
Measurement accuracy	± 2 mbar (after adjustment, constant temp.)
Setting range	1013 ~ 0 mbar
Motor speed	1 ~ 100%, adjustable
Resolution	1 digit
Pressure display	mbar, hPa, torr
Hose barb	ID10
Noise level	50 dB
Net weight	15.0 Kg
Dimension (LxWxH)	44 x 38 x 25 cm
ELECTRICAL DATA	
Voltage	100-240V
Frequency	50 / 60Hz
Max. power	120W (1/6 HP)
Motor	Brushless DC Motor (BLDC)
Safety	Fuse, Error Message
OTHER DATA	
Equipped with	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.

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 60W 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)



Specification

Model	Alligator 200
PERFORMANCE DATA	
Max. vacuum	313 mbar abs.
Max. liquid flow rate	4.5 L/min
Hose barb	ID8
Noise level	60 dB
Net weight	2.4 Kg
Dimension (LxWxH)	24 x 19 x 20 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	Overheat Protection

Diaphragm Liquid Pump



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)

187150-11(22)

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 Exhaust 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



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

Model	Tanker 1	30	Tanker 150		Tanker 215		Tanker 230	
PERFORMANCE DATA								
Max. vacuum	1×10^{-1} torr abs.		1 x 10 ⁻¹ torr abs.		5 x 10 ⁻² torr abs.		5 x 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		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	ιΤΑ							
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 P	rotection	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 regulation, 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)

Normal Flow Rate Pump Head, ~1600 mL/min 184100-20

High Flow Rate Pump Head, ~ 2160 mL/min

184100-10

Double-Channel Pump Head, ~1800 mL/min (for each channel)

185600-40

Handling Dispenser, DB9 Connector

185600-41

Foot Switch, DB9 Connector

185600-49-68

TYGON S3TM E-3603 Tubing, #17, 2 m



Specification

Model	Buller 600
PERFORMANCE DATA	
Speed	1 ~ 600 rpm
Speed accuracy	1 rpm
Max. flow rate	1600 mL/min
Control type	Digital, variable-speed
Channel	1
Net weight	5.0 Kg
Dimension (L×W×H)	17 x 33 x 24 cm
ELECTRICAL DATA	
Voltage	100-240V
Frequency	50 / 60Hz
Max. power	60W
Motor	Brushless DC Motor (BLDC)
External inputs	0 ~ 5V / 4 ~ 20mA / 0 ~ 10kHz
Remote control	RS 232
Safety	Motor Overload Protection (1.7 bar), Fuse

^{*} Each unit includes a normal speed pump head and a silicone tube.

^{*}Please refer to P.96 for optional accessories.

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 ProteTM 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 / Pressure regulator Overflow 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 clean air.

International certification

CE certification CSA certification IP 30 protection RoHS certification

► Two-Year Warranty

Applications

- Aeration
- ► Pressure filtration

Ordering Information

167320-11(22)

Rocker 320, Compressor AC110V, 60Hz (AC220V, 50Hz)

167420-11(22)

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





Rocker 420

Specification

•				
Model	Rocker 320		Rocker 420	
PERFORMANCE DATA				
Max. pressure (w/o moisture trap)	90 psig		90 psig	
Max. pressure (w/ moisture trap)	80 psig		80 psig	
Max. flow rate			27 L/min @60Hz	25 L/min @50Hz
Hose barb	ID8		ID8	
Noise level	50 dB		52 dB	
Net weight	4.1 Kg		5.2 Kg	
Dimension (LxWxH)	27 x 14 x 17 cm		30 x 14 x 17 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50 / 60Hz		50 / 60Hz	
Max. power	90W (1/8 HP)	85W (1/8 HP)	147W (1/6 HP)	125W (1/6 HP)
Max. current	0.9A	0.4A	1.5A	0.6A
Safety	Overheat Protection		Overheat Protection	
OTHER DATA				
Equipped with	Pressure regulator Filter cartridge		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



^{*} The capacity of SS304 tank is 2.5 L

Specification

Model		Rocker 440			
PERFORMANCE DATA					
Pressure range		40~60 psig			
Max. flow rate (w/o tank)		27 L/min @60Hz	25 L/min @50Hz		
Max. flow rate	20 psig	40 L/min @60Hz	40 L/min @50Hz		
(w/ tank)	40 psig	52 L/min @60Hz	50 L/min @50Hz		
(W/ Carrix)	60 psig	65 L/min @60Hz	60 L/min @50Hz		
Hose barb		ID8			
Noise level		52 dB			
Net weight		8.4 Kg			
Dimension (LxWxH)		29 x 31 x 25 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		Pressure regulator Filter cartridge			

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

Pump Accessories





167300-21

5/16 inch

ID8

1/8 PT



167300-63

1/4 inch

1/8 PT

ID6



167300-23

3/16 inch

ID5

1/8 PT



167300-24

1/8 inch

ID3

1/8 PT



Chemical Resistant Hose Barb

Chemker Series Pump 169300-21 169300-20 5/16 inch 3/8 inch ID10 ID8 1/4 NPS 1/4 NPS









5/16 inch

ID8

1/8 PT

167300-25 167800-25

3/8 inch

ID10

1/4 PT

Moisture Trap / Vacuum Regulator





Hose Barb

Hose Barb

Rocker Series Pump

Cat.No.: 167300-20

Thread: 1/8 PT

3/8 inch

ID10

Tanker Se	ries Pump
Cat.No.:	187100-3

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









(with $\mathsf{Prote}^{\scriptscriptstyle\mathsf{TM}}$ overflow protection)

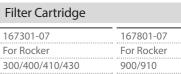


(without Prote[™] overflow protection)

Pressure Regu	ulator
167320-06	16744
For Rocker	For Ro



Hoop Holder	
167300-37	189300-37
For Rocker	For Rocker
300/400/410	300/400/410
300C/400C/410C	300C/400C/410C
LF 30/SF 10/SF 30	VF 12





Check Valve 187100-33

130/150/215/230

For Tanker

ID10 1/4 SAE

320/420/430



440









Air Outlet (Copper Muffler)		Silicone Tube			Universal Foot Switch	
167300-42	167600-42	167200-38	199100-68	180300-68	167200-41	167200-41-1
For Rocker	For Rocker	Ø 6 x 12 mm	Ø 4.2 x 8 mm	Ø 8 x 14 mm	Momentary action	Maintained action
300/400/410/430	900/901/910/911	Length: 1 m	Length: 2 m	Length: 2 m		

* PT (pipe thread) = BSPT

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

VF 5 / VF 8 / VF 6 / VF 7

VF 3 / VF 12 / VF 15 / VF 16

Stream 3 / Stream 10

Filtration System

Rocker 300 - LF 30 / Rocker 300 - MF 31

Rocker 300C - VF 12 / Chemker 300 - VF 12

Lafil 300C - VF 12

Lafil 300 - LF 30 / Lafil 300 - 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 Apparatus Selection Guide



*PPSU: Polyphenylsulfone, PES: Polyethersulfone



MF 3

MF 5

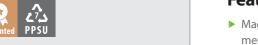
MF 5a

MF, Magnetic Filter Holder

























Features

- ▶ Magnetic seal makes it easy to operate with one-hand and prevents twists of
- ▶ 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 series filter holders are applied with PPSU, which provides better chemical and heat resistance than PES. Making them more durable and long-lasting.
- ▶ International certification : RoHS certification

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

Specifications

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
Syringe filter	PTFE	PTFE
Specifications		
Funnel capacity	300 mL / 500 mL	300 mL / 500 mL
Filter diameter	47 mm	47 mm
Effective filtration area	13.1 cm ²	13.1 cm ²
Syringe filter	25 mm, 0.2 μm	25 mm, 0.2 μm
Hose barb	ID4 ~ ID8	ID4 ~ ID8
Graduated increment	50 mL	50 mL

MF 3 Pro / MF 5 Pro

MF 3a Pro / MF 5a Pro

Ordering Information

MF 3	MF 3 Pro, Magnetic Filter Holder (300 mL) 200300-01-P			
MF 5	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	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







Features

- ▶ Magnetic seal makes it easy to operate with one-hand and prevents twists of
- ▶ 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, resistant to a wide range of chemicals and high temperature, is sturdy and unbreakable.
- ▶ International certification : RoHS certification

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

Specifications

Graduated increment

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
Syringe filter	PTFE	PTFE
Specifications		
Funnel capacity	300 mL / 500 mL	300 mL / 500 mL
Filter diameter	47 mm	47 mm
Effective filtration area	13.1 cm ²	13.1 cm ²
Syringe filter	25 mm, 0.2 μm	25 mm, 0.2 μm
Hose barb	ID4 ~ ID8	ID4 ~ ID8

MF 3 / 5 MF 3a / 5a

Ordering Information

50 mL

MF 3,	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			

50 mL

LF, Spin-Lock Filter Holder









Features

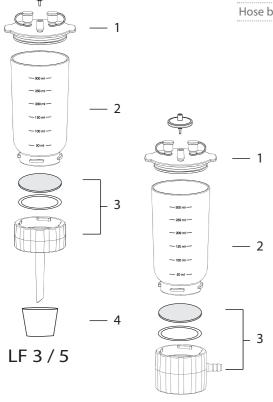
- ► Clamp-free spin-lock design.
- ▶ Shock-proof and heat-resistant (180°C) PES funnel.
- ▶ Groove design on membrane support facilitates filtration speed.
- ▶ Durable & reusable, less waste and more cost-efficient.
- ▶ LF 3 / 5 : Fits most of lab flasks with No.8 silicone stopper.
- ▶ LF 3a / 5a: GL45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

 $Recommended \ for \ applications \ that \ required \ less \ frequent \ autoclaves \ in \ general \ and \ environmental \ labs.$

Specifications

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
Syringe filter	PTFE	PTFE

Specifications		
Funnel capacity	300 mL / 500 mL	300 mL / 500 mL
Filter diameter	47 mm	47 mm
Effective filtration area	12.5 cm ²	12.5 cm ²
Syringe filter	25 mm, 0.2 μm	25 mm, 0.2 μm
Hose barb	-	ID8



LF 3a / 5a

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 Filter Holder











Features

- ► Clamp-free spin-lock design.
- ▶ Precise laser-marking ensures high volume accuracy.
- ▶ 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.
- ► Two-Year Warranty

Recommended for microbiological applications that required fast flame sterilization.

Specifications

Graduated increment

Material	SF 1	SF 3	SF 5	
Funnel	SS316	SS316	SS316	
Support base	SS316	SS316	SS316	
Membrane support	SS316	SS316	SS316	
Funnel lid	SS316	SS316	SS316	
Specifications				
Funnel capacity	100 mL	300 mL	500 mL	
Filter diameter	47 mm	47 mm	47 mm	
Effective filtration area	11.6 cm ²	11.6 cm ²	11.6 cm ²	

Ordering Information

50 / 100 mL

SF 1, S	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, S	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, S	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
SF, Sta	ninless Steel Funnel Lid	
Stair	nless steel funnel lid, 100 mL	180100-11
Stair	nless steel funnel lid, 300 mL / 500 mL	180100-13

100 / 250 / 300 mL 250 / 500 mL



SF₁

SF 3

SF 5

PES Filtration Apparatus









Features

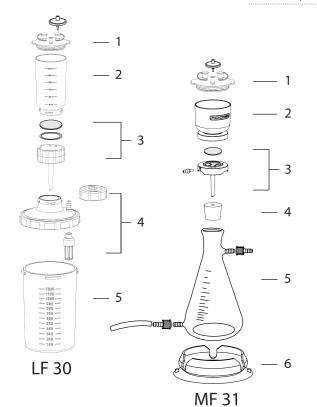
- ▶ LF 30 : A safe and sturdy combination of clamp-free spin-lock PES filter holder, and bottle with built-in overflow protection.
- ▶ MF 31 : Combination of a glass flask with direct-drain, spill-proof silicone sucker, and a magnetic filter holder. Allows simple single-hand operation.

Applications

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

Specifications

Material	LF 30	MF 31
Funnel	PES	PES
Support base	PC	PES
Membrane support	PP	PES
Receiver flask	PC	Borosilicate glass
Syringe filter	PTFE	PTFE
Drain hose	-	Rubber (non-autoclavable)
Specifications		
Funnel capacity	300 mL	300 mL
Flask capacity	1200 mL	1000 mL
Filter diameter	47 mm	47 mm
Effective filtration area	12.5 cm ²	13.1 cm ²
Hose barb	ID8	ID8
Drain device	_	Yes
Overflow protection	Yes	-



Ordering Information

LF 3	0, 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	31, Filtration Set	200320-31
1	PP lid kit for magnetic funnel	200300-36
	PP lid kit for magnetic funnel PES magnetic funnel, 300 mL	200300-36 200300-30
1		
1 2	PES magnetic funnel, 300 mL	200300-30
1 2 3	PES magnetic funnel, 300 mL PES magnetic support base	200300-30 200300-32
1 2 3 4	PES magnetic funnel, 300 mL PES magnetic support base Silicone stopper (No.8)	200300-30 200300-32 167110-16

Stainless Steel Filtration Apparatus (1217) Indicated in the Indicated in









Features

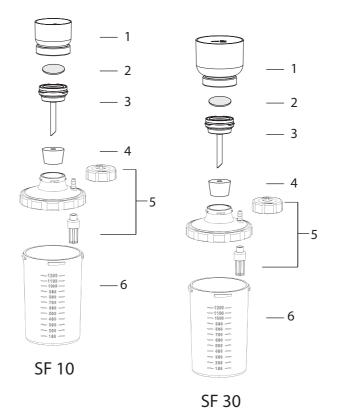
- ► Handy, clamp-free SF filter holder with spin-lock design.
- ▶ SS316 funnel is shatterproof, durable and can be fast sterilized by flame.
- ▶ Built-in overflow protection makes filtration easier and care-free.
- ► Two-Year Warranty (SF Filter Holder)

Applications

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

Specifications

Material	SF 10	SF 30	
Funnel	SS316	SS316	
Support base	SS316	SS316	
Membrane support	SS316	SS316	
Receiver bottle	PC	PC	
Specifications			
Funnel capacity	100 mL	300 mL	
Bottle capacity	1200 mL	1200 mL	
Filter diameter	47 mm	47 mm	•
Effective filtration area	11.6 cm ²	11.6 cm ²	
Hose barb	ID8	ID8	
Overflow protection	Yes	Yes	



Ordering Information

SF 1	0, 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 3	0, Stainless Steel Filtration Set	197010-33
SF 3	0, Stainless Steel Filtration Set Stainless steel funnel, 300 mL	197010-33 180100-03
	i	
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
1 2 3 4	Stainless steel funnel, 300 mL Stainless steel support screen Stainless steel support base Silicone stopper (No.16)	180100-03 180100-31 180100-00 167110-17









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

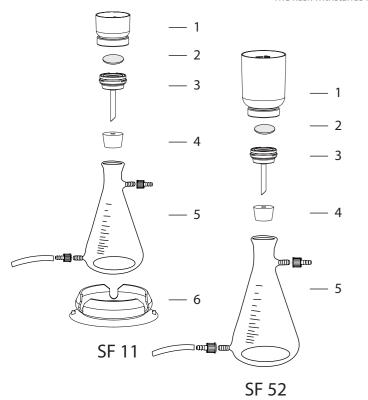
General filtration, such as medium purification, microbiological test, etc.

Specifications

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)

Specifications		
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)	
_	Cilicono fiving suckor	167200-45
6	Silicone fixing sucker	107200-43
	2, Stainless Steel Filtration Set	167200-43
SF 5	: -	167200-11
SF 5	2, Stainless Steel Filtration Set	167200-11 180100-50
SF 5	2, Stainless Steel Filtration Set , Stainless Steel Filter Holder (500 mL)	167200-11 180100-50
SF 5	2, Stainless Steel Filtration Set , Stainless Steel Filter Holder (500 mL) Stainless steel funnel, 500 mL	167200-11 180100-50 180100-05 180100-31
SF 5 SF 5 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 180100-00
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

25 mm Microanalysis **Glass Filtration Apparatus**







Features

- ▶ Accurate scale marking makes precise sample addition easy.
- ▶ Select sintered glass or stainless steel as membrane support.

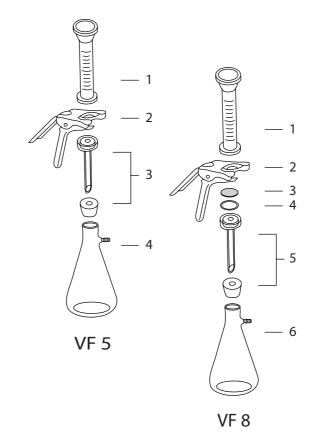
Applications

Small volume vacuum filtration for biological or particulate contamination analysis.

Specifications

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
Specifications		
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
Hose harh	ID8	ID8

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



Ordering Information

	, 23 Hilli Microalialysis Glass Filtration Set	
Glas	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
	s Filter Holder (15 mL)	
	· ·	167120-34
Glas	s Filter Holder (15 mL)	167120-34 167220-15
Glas 1	s Filter Holder (15 mL) Glass funnel, 15 mL	167120-34 167220-15 167240-05
Glas 1 2	s Filter Holder (15 mL) Glass funnel, 15 mL Aluminum clamp, 25 mm	167120-34 167220-15 167240-05 167230-32
Glas 1 2 3	s Filter Holder (15 mL) Glass funnel, 15 mL Aluminum clamp, 25 mm SS support screen, 25 mm	167200-08 167120-34 167220-15 167240-05 167230-32 167230-42 167230-08
Glas 1 2 3 4	s Filter Holder (15 mL) Glass funnel, 15 mL Aluminum clamp, 25 mm SS support screen, 25 mm PTFE gasket	167120-34 167220-15 167240-05 167230-32

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.

Specifications

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
Specifications		
Funnel capacity	300 mL	300 mL
Flask capacity	1000 mL	1000 mL
Filter diameter	47 mm	47 mm
Effective filtration area	13.2 cm ²	9.6 cm ²
Hose barb	ID8	ID8

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

Ordering Information

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

47 mm Glass Filtration Apparatus









Features

- ▶ VF 3 : Borosilicate glass-made filter holder and flask provides extraordinary chemical resistance.
- ▶ VF 12 : Filter and store directly in GL45 bottle with patented filtration adaptor.

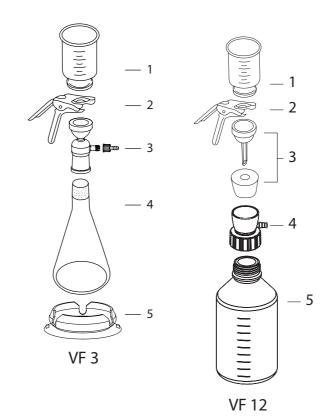
Applications

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

Specifications

Material	VF 3	VF 12
Funnel	Borosilicate glass	Borosilicate glass
Support base	Borosilicate glass	Borosilicate glass
Membrane support	Sintered glass	Sintered glass
Clamp	Aluminum	Aluminum
Filtration adaptor	-	PP
Receiver flask	Borosilicate glass	Borosilicate glass
Specifications		
Funnel capacity	300 mL	300 mL
Flask capacity	1000 mL	1000 mL
Filter diameter	47 mm	47 mm
Effective filtration area	13.2 cm ²	13.2 cm ²
Hose barb	ID8	ID 4~ID8
v =1	<i>c</i>	CI

^{*}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
VF 1:	2, 47 mm Glass Filtration Set	167200-12
	2, 47 mm Glass Filtration Set s Filter Holder (300 mL)	167200-12 167120-31
Glass	s Filter Holder (300 mL)	167120-31
Glass	s Filter Holder (300 mL) Glass funnel, 300 mL	167120-31 167210-03
Glass	s Filter Holder (300 mL) Glass funnel, 300 mL Aluminum clamp, 47 mm	167120-31 167210-03 167240-01
Glass	s Filter Holder (300 mL) Glass funnel, 300 mL Aluminum clamp, 47 mm Sintered glass support base, 47 mm	167120-31 167210-03 167240-01
Glass: 1 2 3	s Filter Holder (300 mL) Glass funnel, 300 mL Aluminum clamp, 47 mm Sintered glass support base, 47 mm (Including No.8 silicone stopper)	167120-31 167210-03 167240-01 167230-03

90 mm Glass Filtration Apparatus









Features

► Filter and store directly in GL45 bottles with equipped adaptor. No more crosscontamination.

Applications

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

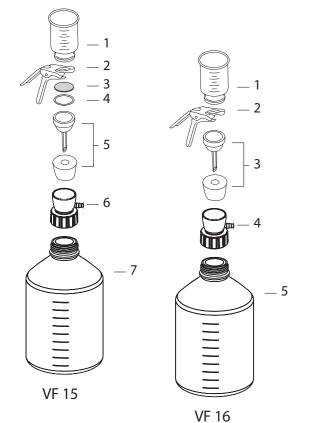
* Membrane support of VF 15 is made of stainless steel and may not be resistant enough to strong acids. Please refer to chemical compatibility chart if required.

Specifications

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
Specifications		
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

 $[\]ensuremath{^{*}}$ The bottle with stands nearly full vacuum for use in vacuum filtration.

Ordering Information



VF 1	5, 90 mm Glass Filtration Set	167200-15
Glas	s Filter Holder (1000 mL)	167120-37
1	Glass funnel, 1000 mL	167210-10
2	Aluminum clamp, 90 mm	167240-02
3	SS support screen, 90 mm	167230-33-1
4	PTFE gasket	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, Continuous Filter Holder









Features

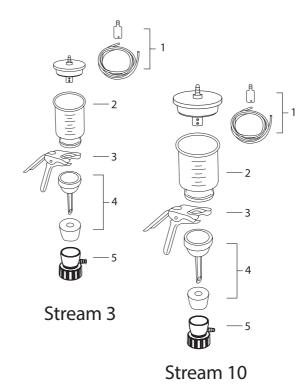
- ▶ A smart kit to allow continuous feed for larger volume samples. No more repetitive pouring works.
- ▶ Equipped with suction anchor that misses no drops till the end.
- ▶ Filtration adaptor can be connected to all GL45 bottles.

Applications

Large volume purification and filtration, such as solvent for HPLC, GC, AA analysis and culture medium.

Specifications

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	
Specifications			
Funnel capacity	300 mL	1000 mL	_
Filter diameter	47 mm	90 mm	
Effective filtration area	13.2 cm ²	45.5 cm ²	
Hose barb	ID4 ~ ID8	ID4 ~ ID8	
	***************************************	***************************************	



Ordering Information

Stre	eam 3, Continuous Filter Holder (300 mL)	167200-S3
1	Continuous filtration kit for 300 mL glass filter holder	167210-36
2	Glass funnel, 300 mL	167210-03
3	Aluminum clamp, 47 mm	167240-01
4	Sintered glass support base, 47 mm	167230-03
	(Including No.8 silicone stopper)	
5	GL45 filtration adaptor	197000-65
Stre	eam 10, Continuous Filter Holder (1000 mL)	167200-S10
Stre	eam 10, Continuous Filter Holder (1000 mL) Continuous filtration kit for 1000 mL glass filter holder	
1	Continuous filtration kit for 1000 mL glass filter holder	167210-35
1 2	Continuous filtration kit for 1000 mL glass filter holder Glass funnel, 1000 mL	167210-35 167210-10
1 2 3	Continuous filtration kit for 1000 mL glass filter holder Glass funnel, 1000 mL Aluminum clamp, 90 mm	167210-35 167210-10 167240-02





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

Rocker 300 - LF 30



Specification

Model	Rocker 300 - LF 30		Rocker 300 - MF 3	31	
Voltage	110V	220V	110V	220V	
Max. power	65W	60W	65W	60W	
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	
Vacuum regulator	Yes		Yes		
Overflow protection	Yes	Yes		Yes	
Noise level	50 dB	50 dB		50 dB	
Model of Apparatus	LF 30	LF 30			
Funnel	300 mL	300 mL			
Receiver flask	1200 mL	1200 mL			
Filter diameter	47 mm		47 mm		
Overflow protection	Yes		-		
Drain device	-		Yes		

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 -VF 12 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







Specification

-						
Model	Rocker 3000	- VF 12	Chemker 30	0 - VF 12	Lafil 300C - \	/F 12
Voltage	110V	220V	110V	220V	110V	220V
Max. power	65W	60W	70W	60W	65W	60W
Max. vacuum	99 mbar abs	5.	99 mbar abs	5.	99 mbar abs	5.
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	20 L/min @60Hz	18 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz
Vacuum regulator	Yes		-		Yes	
Noise level	50 dB		50 dB		50 dB	
Model of Apparatus	VF 12					
Funnel	300 mL					
Storage bottle	1000 mL					
Filter diameter	47 mm					





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, 100 mL





Specification

Lafil 300 - LF 30		Lafil 300 - SF 10	
110V	220V	110V	220V
65W	60W	65W	60W
99 mbar abs.		99 mbar abs.	
23 L/min @60Hz	20 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz
Yes		Yes	
50 dB		50 dB	
34 x 24 x 30 cm		34 x 24 x 30 cm	
LF 30		SF 10	
300 mL		100 mL	
1200 mL		1200 mL	
47 mm		47 mm	
Yes		Optional	
Yes		Yes	
	110V 65W 99 mbar abs. 23 L/min @60Hz Yes 50 dB 34 x 24 x 30 cm LF 30 300 mL 1200 mL 47 mm Yes	110V 220V 65W 60W 99 mbar abs. 23 L/min @60Hz 20 L/min @50Hz Yes 50 dB 34 x 24 x 30 cm LF 30 300 mL 1200 mL 47 mm Yes	110V 220V 110V 65W 60W 65W 99 mbar abs. 99 mbar abs. 23 L/min @60Hz 20 L/min @50Hz 23 L/min @60Hz Yes Yes 50 dB 50 dB 34 x 24 x 30 cm 34 x 24 x 30 cm LF 30 SF 10 300 mL 100 mL 1200 mL 1200 mL 47 mm 47 mm Yes Optional

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, 100 mL

Lafil 400 - LF 30



Specification

Model	Lafil 400 - LF 30		Lafil 400 - SF 10		
Voltage	110V	220V	110V	220V	
Max. power	100W	80W	100W	80W	
Max. vacuum	25 mbar abs.		25 mbar abs.		
Max. flow rate	23 L/min @60Hz	20 L/min @50Hz	23 L/min @60Hz	20 L/min @50Hz	
Vacuum regulator	Yes		Yes		
Noise level	52 dB	52 dB		52 dB	
Dimension (LxWxH)	34 x 24 x 30 cm		34 x 24 x 30 cm		
Model of Apparatus	LF 30		SF 10		
Funnel	300 mL		100 mL		
Receiver bottle	1200 mL		1200 mL		
Filter diameter	47 mm		47 mm		
Funnel lid	Yes		Optional		
Overflow protection	Yes		Yes		



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
- ► 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









Improve operation time

Compatible with various kinds of adaptor and filter holder

Specification

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



50

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

Use WaterVac 100 - MB with ROCKER SF funnels. These 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
- ► Vacuum filtration

Ordering Information

190120-01(02)

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

190121-01(02)

WaterVac 101 - MB, Vacuum Filtration System with ROCKER SF funnel adaptor, 100 mL SF funnel, 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

WaterVac 100 - MB





Specification

Model	WaterVac 100 - MB	WaterVac 101 - MB	
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	1	
Adaptor	Spin-lock design	Spin-lock design	
Filter holder	(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 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





L - type hose barb



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	Overheat 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

Use WaterVac 200 - MB with ROCKER SF funnels. These 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 ROCKER SF funnel adaptor,
100 mL SF funnel x 2, 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

WaterVac 200 - MB



WaterVac 201 - MB



Specification

Model	WaterVac 200 - MB WaterVac 201 - MB		
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	Overheat Protection		
OTHER DATA			
Number of branch	2		
Adaptor	Spin-lock design	Spin-lock design	
Filter holder	(Optional) SF stainless steel funnel, 100 mL / 300 mL / 500 mL funnel, 100 mL x 2		

ROCKER S2

Maximize Your WaterVac Versatility!



^{*} MB adaptors are also compatible with Pall, Sentino® disposable funnels (4870 / 4871).



Aluminum Multi-Branch Manifold







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 with No.8 stopper funnel adaptor 180610-01

MultiVac 610 - MS, 6 Places Aluminum Manifold with No.8 stopper funnel adaptor

200300-01

MF 3, Magnetic Filter Holder, 300 mL

167110-16

No.8 Silicone Stopper





Specification

Model	MultiVac 310 - MS	MultiVac 610 - MS
Number of branch	3	6
Filter diameter	Depends on filter holder	Depends on filter holder
Funnel capacity	Depends on filter holder	Depends on filter holder
Hose barb	ID8	ID8
Net weight	1.8 Kg	3.0 Kg
Dimension (LxWxH)	48 x 13 x 16 cm	85 x 13 x 16 cm
Part	Material	Material
Body	Aluminum	Aluminum
Control valve	Aluminum	Aluminum
Adaptor	Aluminum	Aluminum
Hose barb	Aluminum	Aluminum
Handle / Knob	Aluminum	Aluminum

Stainless Steel Multi-Branch Manifold





Quick-Fit hose barb

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, 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 with No.8 stopper funnel adaptor

180600-01

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

200300-01

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

No.8 Silicone Stopper

MultiVac 300 - MS



Specification

Model	MultiVac 300 - MS	MultiVac 600 - MS
Number of branch	3	6
Filter diameter	Depends on filter holder	Depends on filter holder
Funnel capacity	Depends on filter holder	Depends on filter holder
Hose barb	ID8	ID8
Net weight	3.0 Kg	5.1 Kg
Dimension (LxWxH)	48 x 13 x 16 cm	85 x 13 x 16 cm
Part	Material	Material
Body	SS316	SS316
Control valve	SS316	SS316
Adaptor	SS316	SS316
Hose barb / Vent valve	SS316	SS316
Handle / Knob	Aluminum	Aluminum

Stainless Steel Multi-Branch 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 with ROCKER SF funnel adaptor

180600-02

MultiVac 600 - MB, 6 Places SS Manifold with ROCKER SF funnel adaptor

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

Stainless Steel Multi-Branch Manifold





Features

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 with ROCKER SF funnel adaptor, 100 mL SF funnel x 3

180601-02

MultiVac 601 - MB, 6 Places SS Manifold with ROCKER SF funnel adaptor, 100 mL SF funnel x 6

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 301 - MB	MultiVac 601 - MB
Number of branch	3	6
Filter diameter	47 mm	47 mm
Funnel capacity	100 mL	100 mL
Hose barb	ID8	ID8
Net weight	3.7 Kg	6.6 Kg
Dimension (LxWxH)	48 x 13 x 14.3 cm	85 x 13 x 14.3 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
Funnel	SS316	SS316

ROCKER 80







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





Specification

Model	MultiVac 310 - MS - A	MultiVac 610 - MS - A		
Power input	DC24V, 1.8A			
Max. power	44W			
Max. vacuum	313 mbar abs.			
Max. liquid flow rate	4.5 L/min			
Motor	Brushless DC Motor (BLDC)			
Noise level	60 dB			
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS			
OTHER DATA	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	Aluminum	Aluminum		

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

- Suspended solid test
- Microbiological 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 μ m, 200/PK
- *Silicone Tube





Specification

Model	MultiVac 301 - MB - A	MultiVac 601 - MB - A	
Power input	DC24V, 1.8A		
Max. power	44W		
Max. vacuum	313 mbar abs.		
Max. liquid flow rate	4.5 L/min		
Motor	Brushless DC Motor (BLDC)		
Noise level	60 dB		
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS		
OTHER DATA			
Number of branch	3	6	
Funnel	SF stainless steel funnel 100 mL x 3	SF stainless steel funnel 100 mL x 6	
Filter diameter	47 mm	47 mm	
Material contact with filtrate	SS316	SS316	





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 for one-handed operation, and can prevent 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 (2 pcs)





Specification

Model	MultiVac 310 - MS - T		MultiVac 610 - MS - T	
Voltage	110V	220V	110V	220V
Max. power	100W	80W	100W	80W
Max. vacuum	99 mbar abs.			
Max. flow rate	37 L/min @60Hz	34 L/min @50Hz	37 L/min @60Hz	34 L/min @50Hz
Vacuum regulator	Yes			
Overflow protection	Yes			
Noise level	52 dB			
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	Aluminum		Aluminum	

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

Adjustable vent valve 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
- ▶ Vacuum filtration

Ordering Information

180300-11-T (22-T) 180600-11-T (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/PK
- * Silicone Tube (2 pcs)

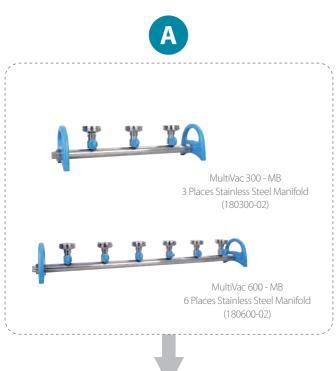


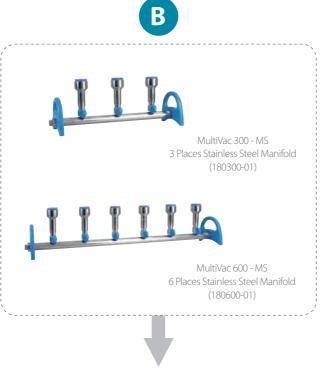


Specification

Model	MultiVac 301 - MB - T		MultiVac 601 - MB - T	
Voltage	110V	220V	110V	220V
Max. power	100W	80W	100W	80W
Max. vacuum	99 mbar abs.			
Max. flow rate	37 L/min @60Hz	34 L/min @50Hz	37 L/min @60Hz	34 L/min @50Hz
Vacuum regulator	Yes			
Overflow protection	Yes			
Noise level	52 dB			
OTHER DATA				
Number of branch	3		6	
Filter holder	SF stainless steel funnel 100 mL x 3		SF stainless steel funnel 100 mL x 6	
Filter diameter	47 mm		47 mm	
Material contact with filtrate	SS316		SS316	

Maximize Your MultiVac Versatility!









Pall, 100 mL / 250 mL

(4870 / 4871)

ROCKER, 500 mL Stainless Steel Funnel Lid for SF funnel, 300 mL / 500 mL SF Stainless Steel Funnel (180100-05) (180100-13)



* MB adaptors are also compatible with Pall, Sentino[®] disposable funnels (4870 / 4871).

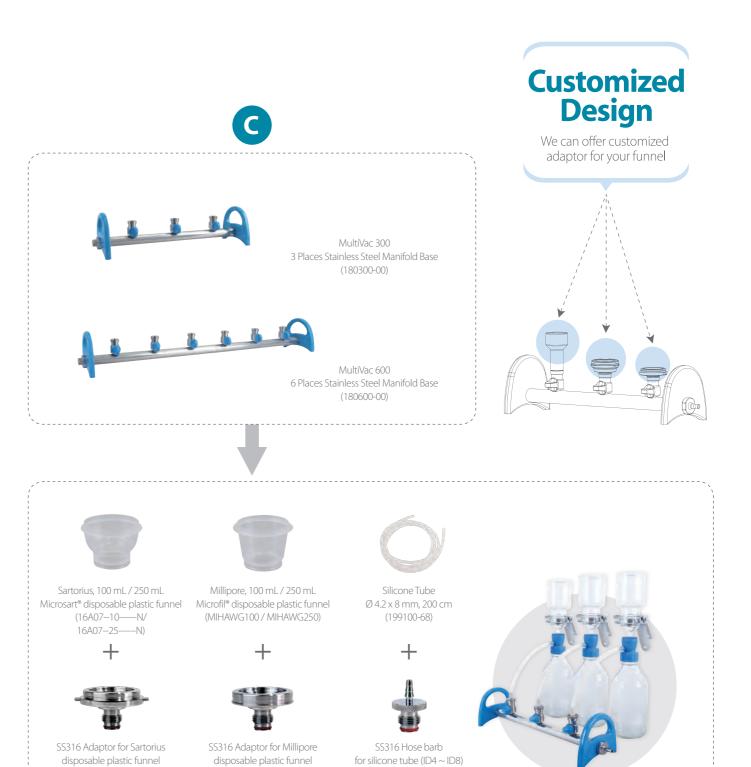
ROCKER, 100 mL

SF Stainless Steel Funnel (180100-01)

ROCKER, 300 mL

SF Stainless Steel Funnel

(180100-03)



(190100-76)

(190100-73)

* SS316 adaptor is only available for above-mentioned disposable funnels.

ROCKER ROCKER

(190100-74)

Rotary Multi-Branch Manifold



Features

Rotary design

Turn the funnels and add samples at same position and prevent cross-contamination.

► 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 with No.8 Stopper Funnel Adaptor

186600-02

SolarVac 600 - MB, 6 Places Rotary Manifold with ROCKER SF Funnel Adaptor

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





Specification

Model	SolarVac 600 - MS	SolarVac 600 - MB
Number of branch	6	6
Filter diameter	Dependent to filter holders	47 mm
Funnel capacity	Optional	(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
Tubing connection	Silicone	Silicone

Rotary Multi-Branch Manifold



Features

Rotary design

Turn the funnels and add samples at same position and prevent cross-contamination.

► 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

186601-02

SolarVac 601 - MB, 6 Places Rotary Manifold with ROCKER SF funnel adaptor, 100 mL SF Funnel x 6

1861201-02

SolarVac 1201 - MB, 12 Places Rotary Manifold with ROCKER SF funnel adaptor, 100 mL SF Funnel x 12

180100-01

SF Stainless Steel Funnel, 100 mL

180100-03

SF Stainless Steel Funnel, 300 mL

180100-05

SF Stainless Steel Funnel, 500 mL

SolarVac 601 - MB







Adjustable vent valve

SolarVac 1201 - MB





Specification

Model	SolarVac 601 - MB	SolarVac 1201 - MB
Number of branch	6	12
Filter diameter	47 mm	47 mm
Funnel capacity	100 mL	100 mL
Hose barb	ID8	ID8
Net weight	10.0 Kg	17.6 Kg
Dimension (LxWxH)	ø 34 x 19 cm	ø 45 x 19 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
Tubing connection	Silicone	Silicone



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

186600--01/02-A 1861201-01/02-A

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

- * Alligator 200, Diaphragm Liquid Pump
- * SolarVac 600 / 1200 MB,
- 6 / 12 Places Rotary Manifold
- * SF Stainless Steel Funnel, 100 mL (6/12pcs)
- * Dragon 100, Torch Burner
- * MCE Membrane, 47 mm, 0.45 μm, 200/PK
- * Silicone Tube





Specification

Model	SolarVac 601 - MB - A	SolarVac 1201 - MB - A	
Power input	DC24V, 1.8A		
Max. power	44W		
Max. vacuum	313 mbar abs.		
Max. liquid flow rate	4.5 L/min		
Motor	Brushless DC Motor (BLDC)		
Noise level	60 dB		
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS		
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, Silicone	SS316, Silicone	

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 (Rocker 400)
- ► Two-Year Warranty (SolarVac 601 / 1201 - MB)

Applications

- ► Microbiological test
- Suspended solid test
- Vacuum filtration

Ordering Information

186600-11/22-T 1861200-11/22-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 (6/12pcs)
- * PP Vacuum Bottle with drain, 4000 mL
- vacualii bottle with drain, 4000 iii.
- * Dragon 100, Torch Burner
- * MCE Membrane, 47 mm, 0.45 μm, 200/PK
- * Silicone Tube (2 pcs)

SolarVac 601 - MB - T



Specification

Model	SolarVac 601 - MB - T		SolarVac 1201 - MB - T		
Voltage	110V	220V	110V	220V	
Max. power	100W	80W	100W	80W	
Max. vacuum	99 mbar abs.				
Max. flow rate	37 L/min @60Hz	34 L/min @50Hz	37 L/min @60Hz	34 L/min @50Hz	
Vacuum regulator	Yes				
Overflow protection	Yes				
Noise level	52 dB				
OTHER DATA					
Number of branch	6	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, Silicone		SS316, Silicone		

Maximize Your SolarVac Versatility!





SolarVac 600 - MB 6 Places Rotary Manifold (186600-02)



SolarVac 1200 - MB 12 Places Rotary Manifold (1861200-02)



SolarVac 600 - MS 6 Places Rotary Manifold (186600-01)



SF Stainless Steel Funnel (180100-01)



ROCKER, 300 mL SF Stainless Steel Funnel



ROCKER, 500 mL SF Stainless Steel Funnel (180100-05)



Pall, 100 mL / 250 mL Sentino® disposable plastic funnel (4870 / 4871)



Stainless Steel Funnel Lid for SF funnel, 100 mL (180100-11)



Stainless Steel Funnel Lid for SF funnel, 300 mL / 500 mL (180100-13)







SS316 Adaptor for Sartorius disposable plastic funnel (190100-74)



Millipore, 100 mL / 250 mL Microfil® disposable plastic funnel (MIHAWG100 / MIHAWG250)





SS316 Adaptor for Millipore disposable plastic funnel (190100-73)

* SS316 adaptor is only available for above-mentioned disposable funnels.





Make filtration easy with this **Lazy Susan Manifold!**



* SolarVac 1200 - MB can only be used with 100 mL SF stainless steel funnel & Pall Sentino® disposable plastic funnel.

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



PP Heavy-Duty Vacuum Bottle

Specification	PP vacuum bottle, 4000 mL	PP vacuum bottle with drain, 4000 mL	
Catalog number	197200-47	197200-48	
Connector	Hose barb	Hose barb	
Graduated increment	500 mL	500 mL	
Overflow protection	Yes	Yes	
Hose barb	ID4 ~ ID8	ID4 ~ ID8	
Drain device	-	Yes	
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



Hoop Holder NEW

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 LF 30 / SF 10 / SF 30		VF 12	
Applicable apparatus diameter	Max. 118 mm	Max. 103 mm	

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

Filtration Accessories



Membrane Filters

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



GL45 Suction Cap / Filtration Adaptor

Specification	GL45 suction cap	GL45 filtration adaptor	
Catalog number	197000-60	197000-65	
Material of cap	PP	PP	
Material of gasket	-	PTFE	
Stopper	-	No.8 stopper	
Hose barb	ID6	ID4 ~ ID8	
Autoclavable Yes Yes		Yes	



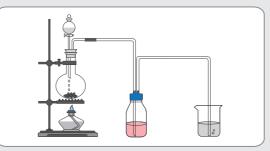
On waste bottle

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



On vapor absorption (neutralization) bottle

Attaching to GL45 bottles used for absorbing acid or alkaline vapor (to prevent from harmful vapor).



On moisture trap bottle

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



On safety bottle

Working as a safety bottle to prevent liquid from being sucked into pump.



* Please refer to P.82 to select GL45 Laboratory Glass Bottle

Life Sciences

ROCKER

Suction Kit

Plus / BioDolphin

Suction System

Lafil 400 - Plus / Lafil 400 - BioDolphin

Tangential Flow Filtration System

Low Profile Magnetic Stirrer

Dry Bath

Microplate Vacuum Manifold

Gravity-fed Microplate Washer

Ultrasonic Cleaner

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-funtional 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)

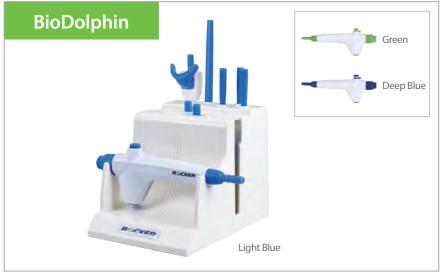
199210-00

Plus Suction Kit (Deep Blue)

199130-00 BioDolphin Suction Kit (Green)

199230-00

Plus Suction Kit (Green)





Standard accessory:

1. 199100-30 Handle

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) **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

9. 199100-61 Rack

Model	BioDolphin	Plus	
Operation	Press to suck		
Hose barb	ID6		
Suction kit material	POM, SS304		
Rack material	ABS	-	
Net weight	600g	100g	
Dimension (LxWxH)	15 x 15 x 20 cm	15 x 8 x 6 cm	
Suction kit	 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 	 Handle 1-channel tip adaptor (150 mm) 1-channel tip adaptor with ejector 8-channel tip adaptor with ejector 	

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 guieter 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, 1000 mL

197000-60-500

Glass Bottle with GL45 Suction Cap, 500 mL



* Color of power switch is different on Lafil 100 and Lafil 100 eco.





197100-48 (Optional) Anti-UV Cloth Cover

With optional glass bottle, 500 mL

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 / (optio	onal) 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			
	8-channel tip adaptor with ejector			
Power input Max. power OTHER DATA Suction Kit	Handle 1-channel tip adaptor (150 mm) 1-channel tip adaptor with ejector	r		

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

Portable Suction System



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

Large Capacity Suction System



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 quick-coupling 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

► One-Year Warranty (Lafil 200 / Lafil 200 eco)

Applications

- ► Cell culture aspiration
- ► 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, $4000\,\mathrm{mL}$

197000-60-3500

Laboratory Glass Bottle with GL45 Suction Cap, 3500 mL





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

Specification

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) 3.5	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		

Large Capacity Suction System





Eco modles pause and resume operation automatically.

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

► Oil-free & care-free

from entering the pump.

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)





Specification

Model	Lafii 300 - Plus		Lafii 300 - BioDolphin	
PERFORMANCE DATA	A			
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	tle, 1200 mL		
Noise level	50 dB			
Net weight	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	60W	65W	60W
Max. current	0.7A	0.3A	0.7A	0.3A
Safety	Overheat Protect	tion		
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			

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

Voltage

Model	Lafil 400 - Plus		Lafil 400 - BioDol	phin
PERFORMANCE DATA				
Max. vacuum	25 mbar abs.			
Max. flow rate	23 L/min @60Hz 20 L/min @50Hz 23 L/min @60Hz 20 L/min @50Hz			
Aspiration rate	19 mL/sec			
Waste bottle	PES vacuum bottle, 1200 mL			
Noise level	50 dB			
Net weight	7.0 Kg			
Dimension (LxWxH)	34 x 25 x 30 cm			
ELECTRICAL DATA				

Frequency	50 / 60Hz		50 / 60Hz 50 / 60Hz		
Max. power	100W 80W		100W	80W	
Max. current	1.0A	0.4A	1.0A	0.4A	
Safety	Overheat Protect	tion			
OTHER DATA Plus BioDolphin		Plus			
Suction Kit	• 1-channel tip ad			laptor (50 mm) laptor (150 mm) aptor (40 mm) aptor (80 mm) aptor (40 mm) aptor (40 mm) aptor with ejector aptor with ejector	

220V

110V

220V

110V

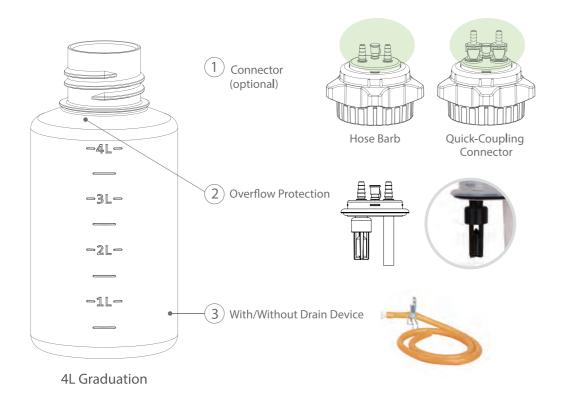
Suction Accessories



PP Heavy-Duty Vacuum Bottle

Specification	PP vacuum bottle, 4000 mL	PP vacuum bottle with drain, 4000 mL	PP vacuum bottle with quick-coupling connector, 4000 mL

Catalog number	197200-47	197200-48	197200-53
Connector	Hose barb	Hose barb	Quick-coupling connector
Graduated increment	500 mL	500 mL	500 mL
Overow protection	Yes	Yes	Yes
Hose barb	ID4 ~ ID8	ID4 ~ ID8	ID6
Drain device	-	Yes	-
Autoclavable	Yes	Yes	Yes



* PP : Polypropylene

Suction Accessories





PES Vacuum Bottle

Specification	PES vacuum bottle, 1200 mL	PES vacuum bottle, 1200 mL
Catalog number	197000-11	197000-12
Graduated increment	100 mL	100 mL
Overflow protection	Yes	Yes
Cap with suction fitting	Yes	-
Hose barb	ID8	ID4 ~ ID8
Autoclavable	Yes	Yes



PP Vacuum Bottle

Specification	PP vacuum bottle, 1000 mL	PP vacuum bottle, 2000 mL	
Catalog number	197100-10	196100-0406	
Graduated increment	250 mL	-	
Overflow protection	-	-	
Hose barb	ID6	ID6	
Autoclavable	Yes	Yes	



Quick Connect Fitting

Specification	pecification 1/4 inch Male Fitting	
Catalog number	197201-38	197201-39
Hose barb	ID6	ID6
Material	POM, FKM	POM, SS316, FKM
Autoclavable	Yes	Yes



GL45 Laboratory Glass Bottle

Specification	Glass bottle, 500 mL	Glass bottle, 1000 mL	Glass bottle, 3500 mL
Catalog number	197000-60-500	197000-60-1000	197000-60-3500
Cap	GL45 suction cap	GL45 suction cap	GL45 suction cap
Graduated increment	100 mL	100 mL	500 mL
Hose barb	ID6	ID6	ID6
Autoclavable	Yes	Yes	Yes

* PES : Polyethersulfone, PP : Polypropylene

Tangential Flow Filtration System

Features

► 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

Ordering Information

184100-01(02)

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

203100-01

MS 100, Low Profile Magnetic Stirrer with AC100-240V adaptor, US/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",

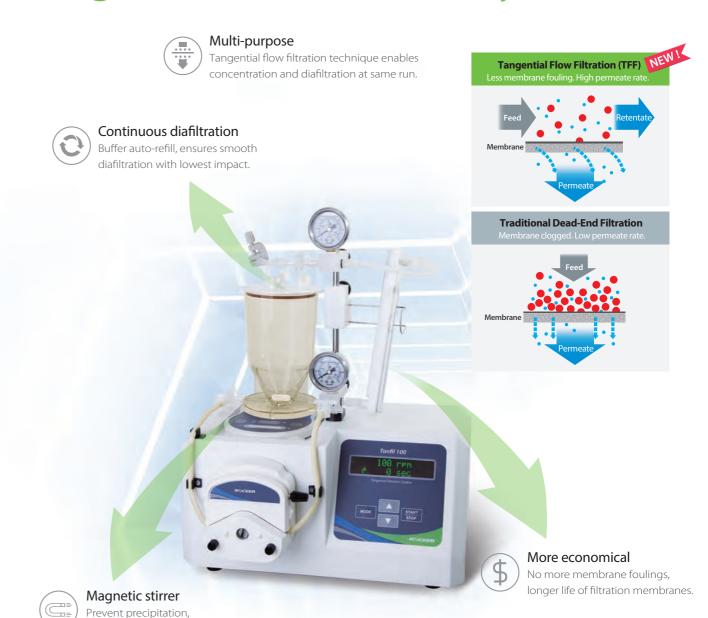


Specification

T (1400		
Tanfil 100		
60 psig		
80 psig		
0~600 mL/min		
7 mL		
PES Reservoir, 500 mL		
55 dB		
7.8 Kg		
28 x 33 x 16 cm		
100-240V		
50 / 60Hz		
50W		
Motor Overload Protection, Fuse		
 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.

Tangential Flow Filtration System



F

Plug & start

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

• TFF Capsule

Pall Minimate[™] Tangential Flow Filtration Capsules (1/pk)

more effective filtration.

• Membrane Material: Omega (PES), Effective Filtration Area: 50 cm²

Catalog number	MWCO*	Catalog number	MWCO*
PALOA001C12	1K	PALOA070C12	70K
PALOA003C12	3K	PALOA100C12	100K
PALOA005C12	5K	PALOA300C12	300K
PALOA010C12	10K	PALOA500C12	500K
PALOA030C12	30K	PALOA990C12	1000K
PALOA050C12	50K		

- $\bullet\, Hansa Bio Med\, TFF\, Hollow\, Fibers\, (1/pk)$
- Recommend for Extracellular Vesicles (EVs) Research.

Catalog number	Description	Pore size
HBM-TFF1	TFF-Easy Polysulfone hollow fibers	5 nm
HBM-TFFMV	TFF-MV Polysulfone hollow fibers	200 nm
HBM-TFFEVS-S	TFF-EVs Polyethersulfone hollow fibers	50 ± 10 nm

^{*} MWCO: Molecular Weight Cut-off

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

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

203100-10

PTFE Magnetic Stirring Bar, Ø 3.6 x 25 mm



Specification

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 ~ 30mm			
Set-up plate material	Polyester		
Set-up plate dimensions	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

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











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

	Hole Diameter	Hole Depth	Max. Capacity	Applicable Tube
179300-01	6.4 mm	17 mm	64 well	0.2 mL
179300-02	8.2 mm	25 mm	20 well	0.5 mL
179300-03	10.2 mm	33 mm	20 well	1.5 mL, 2.0 mL
179300-05	13 mm	36 mm	20 well	Kahn Tube
179300-06	20 mm	45 mm	12 well	
179300-07	25 mm	45 mm	6 well	
179300-10	17 mm	45 mm	12 well	5 mL, 15 mL

Model	Sahara 310		Sahara 320	
PERFORMANCE DATA				
Capacity	1 block	1 block 2 blocks		
Display	OLED			
Tank	Integrated, PTFE	-coated tank		
Temperature range	R.T. +5°C ~ 150°C	С		
Resolution	0.1°C			
Temperature accuracy	± 0.2°C (@37°C)			
Temperature homogeneity	± 0.2°C (@37°C)			
Timer	(1) Countdown timer: 00:01~99:59 (HH:MM) (2) Counter: 00:00 (HH:MM)			
Net weight	2.3 Kg	2.3 Kg 3		
Dimension (LxWxH)	27 x 19 x 11 cm		35 x 19 x 11 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50 / 60Hz		50 / 60Hz	
Max. power	120W		240W	
Safety	Overheat Protection (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 adapter 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

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 Adapter Board (24 hole)

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	23 L/min @60Hz
Waste bottle	(Optional) PES vacuum bottle, 1	1200 mL	
Hose barb	ID8	ID8	
Noise level	-	50 dB	
Net weight	2.6 Kg	6.8 Kg	
Dimension (LxWxH)	23 x 12 x 10 cm	60 x 14 x 20 cm	
PERFORMANCE DATA			
Voltage	-	110V	220V
Frequency	-	50 / 60Hz	
Max. power	-	65W	60W
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

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

196100-05 PP Buffer Bottle, 4000 mL **199100-68** Silicone Tube, Ø 4.2 x 8 mm, 2m **196100-31**

Dynalon® Dura-Clamp Tubing Flow Valve, accepts tubing OD 3.2 ~ 11 mm





BioWasher 100 - T

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

Specification

Model	BioWasher 100	BioWasher 100 - T
PERFORMANCE DATA		
Max. vacuum	-	213 mbar abs.
Max. flow rate	-	10 L/min
Buffer bottle	-	4L PP buffer bottle
Waste bottle	-	4L PP vacuum bottle
Hose barb	ID5	ID5
Noise level	-	50 dB
Net weight	560 g	4.5 Kg
Dimension (LxWxH)	20 x 15 x 8 cm	75 x 29 x 40 cm
ELECTRICAL DATA		
Power input	-	DC12V, 1.5A
Max. power	-	18W
MATERIAL		
8-channel dispenser	PTFE, SS304	
Microplate stand	Acrylic	

ROCKER 88

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

Soner 203



Soner 206



Soner 210



Soner 220



Soner 203H



Soner 206H



Soner 210H



Soner 220H



Specification

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							
Heating	-	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 d	cm	30 x 15 x 15 cr	n	30 x 24 x 15 c	m	50 x 30 x 15	cm
Overall size (LxWxH)	27 x 16 x 24 cm		33 x 18 x 29 cm		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	

Accessories

	Bracket	Basket	Beaker Positioning Cover
			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)



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.(3) Compatible with Petri-dishes in various diameters.

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 16G USB and connecting cable)





(Optional) Galaxy 330 PC software

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

Model	Galaxy 330	
PERFORMANCE DATA		
Display	3-digit, LED panel	
Magnification	2~3X	
Petri dish diameter	60 mm or 90~150 mm (adjustable)	
Storage	100 records	
Operating function	Average, Zero reset, Count back	
Illumination	LED (adjustable)	
Pressure sensitivity	Adjustable	
Acoustical counting signal	Adjustable	
Net weight	5.6 Kg	
Dimension (LxWxH)	35 x 30 x 37 cm	
ELECTRICAL DATA		
Power input	DC12V, 0.8A	
Max. power	10W	
Output	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)

► 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)





Dragon 100







Specification

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

Model	Dragon 300		Dragon 320	
PERFORMANCE DATA				
Max. temperature	850 °C			
Standby temperature	600 °C			
Chamber diameter	16 mm		37 mm	
Net weight	1.1 Kg		1.1 Kg	
Dimension (LxWxH)	17 x 9 x 21 cm		19 x 9 x 22 cm	
ELECTRICAL DATA				
Voltage	110V	220V	110V	220V
Frequency	50 / 60Hz		50 / 60Hz	
Max. power	180W		180W	
Safety	Fuse		Fuse	

Dispensing Peristaltic Pump

Features

▶ Design for microbiological test

Pump's in-built quick-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 regulation, 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)

184100-39

Normal Flow Rate Pump Head, ~1600 mL/min

184100-20

High Flow Rate Pump Head, ~2160 mL/min 184100-10

Double-Channel Pump Head, ~1800 mL/min (for each channel)



Specification

Model	Buller 600 - DSP
PERFORMANCE DATA	
Speed	1 ~ 600 rpm
Speed accuracy	1 rpm
Max. flow rate	1600 mL/min
Control type	Digital, variable-speed
Channel	1
Handling dispenser	(Standard) start/stop control
Net weight	5.3 Kg
Dimension (LxWxH)	20 x 33 x 24 cm
ELECTRICAL DATA	
Voltage	100-240V
Frequency	50 / 60Hz
Max. power	60W
Motor	Brushless DC Motor (BLDC)
External inputs	0~5V / 4~20mA / 0~10kHz
Remote control	RS 232
Safety	Motor Overload Protection (1.7 bar), Fuse

^{*}Each unit includes a normal speed pump head, a handling dispenser, a nozzle, and a silicone tube.

Dispensing Peristaltic Pump





Keep-in-place

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



Design for microbiological test

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

			TYGON S3™ E-3603	PHARMED® BPT	Nozzle	Countersunk
Tubing	ID	Wall thickness (mm)	Length: 2 m	Length: 2 m		4
#16	3.1 mm	1.6 mm	185600-48-68	184100-48-68	185600-42	185600-45
#25	4.8 mm	1.6 mm	185600-50-68	185600-52-68	185600-44	185600-47
#17	6.4 mm	1.6 mm	185600-49-68	185600-51-68	185600-43	185600-46





COD Reactor



Features

► 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 $\sim 200^{\circ}$ C) and time ($1 \sim 999$ 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) Safety ShieldProtect users from splattering reagents in

(Optional) Multi-Function Test Tube Rack *Rack only, glass tubes NOT included.

•			
Model	CR 25		
PERFORMANCE DATA			
Display	OLED		
Temperature range	R.T. +5°C ~ 200°C		
Temperature accuracy	± 2°C		
Temperature stability	± 1°C		
Built-in programs	 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 		
Timer	(1) Countdown timer: 1 ~ 999 min (2) Continuous mode: On		
Number of vials	25 vials		
Applicable vials	φ 16 mm		
Net weight	5.1 Kg		
Dimension (LxWxH)	31 x 19 x 12 cm		
ELECTRICAL DATA			
Voltage	110V 220V		
Frequency	50 / 60Hz		
Max. power	350W 350W		
Safety	Anti-heat PTFE plate on the top of heating blockOverheat Protection (220°C)		

COD Detector



Features

Use reagents of your choice

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

▶ Wide measure range

CD 200 can measure COD values in 3 different ranges: $10 \sim 150$ mg/L, $100 \sim 1500$ mg/L and $1000 \sim 15000$ 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
Measure range	10 ~ 150 mg/L, 100 ~ 1500 mg/L, 1000 ~ 15000 mg/L
User-defined curve	6 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

Multiparameter Colorimeter

WD 100



Features

4-in-1 portable reader

WD 100 is a portable instrument that reads 4 major water quality measures including COD, Total Phosphorus, Total Nitrogen and Ammonia Nitrogen.

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

pecification	
Model	WD 100
PERFORMANCE DATA	
Display	LCD with backlight
Brand of reagents	HACH
Standard program	COD, NH ₃ -N, TP, TN
User-defined curve	11 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	Item, wavelength, 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

ROCKER 100

Graphite Hotplate



Features

► Designed for ultra-trace metal analysis

Designed specially for ultra-trace metal analysis, all graphite plates and blocks are coated with PTFE and ensured zero metal exposure. Corrosive-gas-resistant and durable.

Uniform heating technology

Made of isostatic graphite with high density and great thermal conductivity. New heater design makes excellent uniformity between each sample.

▶ Multipurpose usage

Mars hotplate can be used with various graphite blocks as hotblock for different 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

Ordering Information

178320-22

Mars 320, Graphite Hotplate AC220V, 50/60Hz

178430-22

Mars 430, Graphite Hotplate AC220V, 50/60Hz

178200-45

PTFE-Coated Thermal Sensor



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)							

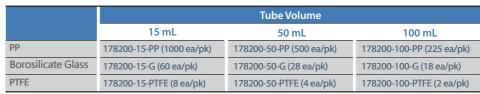
^{*} Each unit includes a controller and a hotplate.

Graphite Hotplate



◆ Digestion Tube





^{*}Max. Operating Temperature • PP:130 °C • Glass / PTFE:200 °C

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



Buffer Solutions

Features

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



Specification

pH Buffer							
Cat. No.	Description	Shelf year					
168400-50	pH 4.01 ± 0.01, 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					

Cat. No. Descri	iption Shelf ye	ar
168103-50 3M KC	CI, 500 mL 2 years	

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	PC	PP	PES	PPSU	PTFE	SS316	EPDM	FKM	FFKM
ACIDS												
10% Hydrochloric Acid	HCI	0	0	0	0	0	0	0	X	0	0	0
20% Sulfuric Acid	H ₂ SO ₄	0	Χ	0	0	0	0	0	Χ	0	0	0
20% Nitric Acid	HNO	0	Χ	0	0	Χ	-	0	0	0	0	0
20% Acetic Acid	$C_2H_4O_2$	Χ	A	0	0	0	0	0	0	0	0	0
10% Hydrofluoric Acid	HF	-	Χ	0	0	0	-	0	0	0	0	0
Aqua Regia	HNO ₃ + 3HCl	Χ	Χ	Χ	A	Χ	-	0	Χ	Χ	0	0
ALKALIS												
20% Sodium Hydroxide	NaOH	0	0	0	0	0	0	0	0	0	0	0
20% Potassium Hydroxide	КОН	0	0	Χ	0	0	-	0	0	0	0	0
28% Aqueous Ammonia	NH ₃	0	Х	Х	0	A	-	0	0	0	0	0
ALCOHOLS												
Methanol	CH₃OH	Х	0	0	0	0	0	0	0	0	Χ	0
Ethanol	C ₂ H ₅ OH	0	0	0	0	A	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 ₄ H ₁₀ O	Χ	0	0	0	0	0	0	0	0	0	0
KETONES												
Acetone	C ₃ H ₆ O	Χ	0	Χ	0	Χ	Χ	0	0	0	Χ	0
Methyl Ethyl Ketone (MEK)	C ₄ H ₈ O	Χ	0	Χ	0	Χ	-	0	0	0	Χ	Х
OTHERS												
Acetonitrile	CH ₃ CN	-	Х	Χ	0	Χ	-	0	0	0	Χ	0
10% Hydrogen Peroxide	H_2O_2	0	Х	0	0	0	-	0	0	A	0	0
5% Bleach (Sodium Hypochlorite)	NaClO	0	Χ	0	0	0	-	0	0	0	0	0
Mineral Oil	-	0	0	0	0	0	0	-	0	Χ	0	0
Sea water	-	-	-	-	-	-	-	-		-	-	-

Recommendations are based on a 24-hour static exposure to the test fluid at RT (21° C / 71° F).