



Vacuum Pumps

Version 1.0

Overview



Vacuum Pumps are used in laboratories across a wide range of industries, including pharmaceutical, material science, biotechnology, universities, life science, environmental analysis, food and beverage and many more. Vacuum pumps are used to create and maintain a vacuum, then facilitate processes like filtration, degassing and distillation.

Please explore our range of laboratory pumps, manufactured by Rocker Scientific.

OIL-FREE

Also known as a dry vacuum pump, these vacuum pumps operate without the use of oil as a lubricant or sealant in the pumping mechanism.

Traditional vacuum pumps, such as rotary vane pumps, utilise oil to lubricate moving parts and create a seal between the rotating components and the pump housing. While effective, the use of oil in these pumps can introduce contamination concerns, especially in applications where a clean vacuum environment is crucial, such as in analytical instrumentation, semiconductor manufacturing and biotechnology.



DIAPHRAGM LIQUID PUMP

A diaphragm liquid pump is a type of positive displacement pump that uses a flexible diaphragm to move liquid. These pumps are commonly used in various industries, including pharmaceuticals, food and beverage, chemical processing and wastewater treatment.



CHEMICAL RESISTANT

A range of chemical resistant diaphragm pumps with either a PTFE coated chamber that is resistant to moderate corrosive gases that are more cost-effective; or the Chemker series with all wetted parts made from PTFE and FFKM material that can be used with hard acidic, basic and solvent vapours.



COMPRESSORS / AIR SUPPLY

Compressor pumps are widely used in industrial, commercial, and residential applications to generate compressed air or other gases for a multitude of purposes.

The basic principle of operation involves drawing in a gas, typically air, and then compressing it to a higher pressure before discharging it into a storage tank or directly into a system.



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Applications Legend



VACUUM FILTRATION

Vacuum filtration is employed in labs and industries to separate solids from liquids by applying reduced pressure, enabling efficient particle removal, solution clarification and solid residue isolation.

TOTAL SUSPENDED SOLIDS

TSS is a vital parameter for environmental monitoring and water quality assessment. It measures solid particles, both organic and inorganic, remaining in suspension in water or wastewater after gravity settling, aiding in water quality evaluation, pollution assessment and the detection of harmful substances or sediments.

MICROBIOLOGICAL TEST

Microbiology testing is crucial for identifying, characterising and monitoring microorganisms, facilitating infectious disease diagnosis and treatment, foodborne pathogen detection as well as water and air quality assessment.

AIR SAMPLING

Air sampling collects and analyses quantified air samples to measure pollutant concentrations, including particulates and microbes. It assesses air quality, identifies pollution sources and monitors environmental changes.

VACUUM DRYING/OVEN

Vacuum drying is a method that removes moisture from a solid sample or air. The principle is to use a vacuum to lower the boiling point of moisture or solvent. A **vacuum oven** is an essential tool used in laboratories and industrial settings for drying, curing and heat treatment processes under reduced pressure conditions.

SOLVENT PURIFICATION

Solvent purification involves the removal of unwanted particles or impurities from solvents or reagents through methods such as distillation, recrystallisation or filtration. Solvent filtration, in particular, is a commonly employed technique in the pre-treatment of precise analyses, such as HPLC.

SOLID-PHASE EXTRACTION

SPE is a sample pre-treatment technique derived from solid-liquid extraction and chromatography. It is used for fractionation, purification, enrichment and concentration. SPE is commonly used before HPLC, LC and GC-MS analysis, resulting in simplifying and enhancing sensitivity.

GEL DRYING

Gel drying quickly removes moisture from gels for analysis and preservation. It uses gentle heating and vacuum to speed up drying, while reducing the risk of gel cracking.

ROTARY EVAPORATION

Rotary evaporation is a common lab technique for solvent removal and concentration. It is used in various fields such as organic chemistry, pharmaceutical research and food analysis. A rotary evaporator uses heat, vacuum and rotation to separate solvents from samples, enabling compound isolation.

Oil-Free Vacuum Pumps



Rocker oil-free vacuum pumps are compact in size, lightweight and oil-mist-free. Perfect for vacuum filtration, microbiological tests, air sampling and suspended solids testing. Selected models are equipped with Prote™ overflow protection and a moisture trap with filter cartridge and vacuum regulator.

FEATURES + BENEFITS

No Air Pollution & Maintenance-Free

Rocker Pumps are piston-driven, without the need for lubricants, regular oil changes or maintenance.

Prote™ Overflow Protection

Equipped with Prote™ overflow protection, preventing large amounts of liquid from being sucked into the pump.

Vacuum Regulator

Vacuum can be adjusted as needed.

Thermal Protection Device

Every Rocker series pump has a built-in thermal protection device that automatically shuts off the pump when overheated and resumes once the temperature decreases.

Moisture Traps* (Selected models only)

Fitted with a filter cartridge in the air inlet to filter particles and moisture, which prolongs the life of the pump.

Warranty

Two year warranty.

OPERATION

Small & space saving

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

Overheat protection

Pump shuts down when overheated and resumes once cooled down



Quiet and stable

Enhanced rubber assemblies make all Rocker pumps operate more quietly and with greater stability

Quality compliance

- CE certification
- CSA certification
- IP 30 protection
- RoHS certification

Prote™ overflow protection

Prevents liquid from being sucked into the pump

(*Rocker 300/400/410/430 units only)



1. Moisture trap is empty
2. Moisture trap begins to fill, which triggers Prote™ Overflow Protection to prevent the liquids from entering the pump

Key benefits of Prote™ Overflow Protection:

- Enhanced safety
- Improves the life span of the vacuum pump
- Easy maintenance

Air inlet protection

Filter cartridge absorbs particles and moisture to prolong pump life

ROCKER

Oil-Free Vacuum Pumps



ROCKER 300

WATCH NOW

- Max. Vacuum: 99mbar abs.
- Max. Flow Rate: 20L/min
- Vacuum Regulator: ✓
- Filter Cartridge: ✓
- Overflow Protection: ✓
- Overheat Protection: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Air Sampling
- Microbiology Testing

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
167300-22	Rocker 300	Each

ROCKER 400

WATCH NOW

ROCKER 400

WATCH NOW

- Max. Vacuum: 99mbar abs.
- Max. Flow Rate: 34L/min
- Vacuum Regulator: ✓
- Filter Cartridge: ✓
- Overflow Protection: ✓
- Overheat Protection: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Air Sampling
- Microbiology Testing

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
167400-22	Rocker 400	Each

Applications

- Vacuum Filtration
- Total Suspended Solids
- Air Sampling
- Microbiology Testing

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
167410-22	Rocker 410	Each



VACUUM PUMP + COMPRESSOR

WATCH NOW

- Max. Vacuum: 145mbar abs.
- Max. Pressure: 80psi
- Max. Flow Rate: 28L/min
- Vacuum Regulator: ✓
- Filter Cartridge: ✓
- Overflow Protection: ✓
- Overheat Protection: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Air Sampling
- Microbiology Testing
- Pressure Filtration

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
167430-22	Rocker 430	Each

Oil-Free Vacuum Pumps



ROCKER 900



- Max. Vacuum: 85mbar abs.
- Max. Flow Rate: 90L/min
- Vacuum Regulator: ✓
- Overflow Protection: X
- Overheat Protection: ✓
- Filter Cartridge: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Air Sampling
- Microbiology Testing
- Vacuum Drying
- Vacuum Oven

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
167900-22	Rocker 900	Each

ROCKER 910



- Max. Vacuum: 25mbar abs.
- Max. Flow Rate: 45L/min
- Vacuum Regulator: ✓
- Overflow Protection: X
- Overheat Protection: ✓
- Filter Cartridge: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Air Sampling
- Microbiology Testing
- Vacuum Drying
- Vacuum Oven

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
167910-22	Rocker 910	Each

Oil-Free Vacuum Pumps

TECHNICAL SPECIFICATIONS



SPECIFICATIONS	ROCKER 300	ROCKER 400	ROCKER 410
MAX. POWER	60W		80W
MAX. CURRENT	0.3A		0.4A
MAX. VACUUM		99mbar abs.	25mbar abs.
MAX. FLOW RATE	20L/min	34L/min	20L/min
NOISE LEVEL	50dB		52dB
HOSE BARB		ID8	
NET WEIGHT	4.1kg		5.2kg
DIMENSIONS (LxWxH)	27 x 14 x 20cm		31 x 14 x 20cm
VACUUM REGULATOR		Yes	
FILTER CARTRIDGE		Yes	
OVERFLOW PROTECTION		Yes	
OVERHEAT PROTECTION		Yes	



SPECIFICATIONS	ROCKER 430	ROCKER 900	ROCKER 910
MAX. POWER	125W		250W
MAX. CURRENT	0.6A		1.2A
MAX. VACUUM	145mbar	85mbar abs.	25mbar abs.
MAX. PRESSURE	80psi		-
MAX. FLOW RATE	28L/min	90L/min	45L/min
MOTOR ROTATION SPEED	1,450rpm		-
HORSE POWER	1/6 HP		-
NOISE LEVEL	52dB		68dB
HOSE BARB		ID8	
NET WEIGHT	5.5kg		7.3kg
DIMENSIONS (LxWxH)	24.7 x 23.5 x 20.4cm		35 x 13 x 21cm
VACUUM REGULATOR		Yes	
FILTER CARTRIDGE	-		Yes
OVERFLOW PROTECTION	Yes		-
OVERHEAT PROTECTION		Yes	
VACUUM GAUGE	Yes		-

Vacuum Pumps | PTFE Coated



Unique to these units, the chambers of the Rocker C pump series are coated in PTFE and are resistant to moderately corrosive gases and are thus a more cost-effective solution when compared to traditional acid resistant pumps.

FEATURES + BENEFITS

Good Chemical Resistance

PTFE coated diaphragm and chamber plus the SS316 Valve offers good resistance to moderately corrosive gases.

Thermal Protection

Built-in thermal protection device shuts off the pump automatically when it is overheated. Once the temperature decreases, it resumes operation.

Minimised Vibration and Quiet Operation

Superior weight distribution and assemblies minimise vibration and noise, maximising stability.

No Air Pollution & Maintenance Free

Driven by a diaphragm, without the need of lubricant, regular oil changes or maintenance.

Applications

- Solvent Purification
- Solid Phase Extraction
- Vacuum Drying
- Liquid Aspiration
- Rotary Evaporator
- Gel Drying
- Vacuum Oven/Drying



Vacuum Pumps | PTFE Coated



ROCKER 300C

TEFLON COATED!

- Max. Vacuum: 99mbar abs.
- Max. Flow Rate: 20L/min
- Moisture Trap: ✓
- Vacuum Regulator: ✓
- Overheat Protection: ✓
- Glass Moisture Trap: ✓



Applications

- Vacuum Filtration
- Solvent Purification
- Solid Phase Extraction

Ordering Information

WATCH NOW

PRODUCT CODE	MODEL	PACK SIZE
189300-22	Rocker 300C	Each

ROCKER 410C

TEFLON COATED!

- Max. Vacuum: 25mbar abs.
- Max. Flow Rate: 23L/min
- Vacuum Regulator: ✓
- Overheat Protection: ✓
- Glass Moisture Trap: ✓



Applications

- Vacuum Filtration
- Solvent Purification
- Gel Drying
- Vacuum Desiccator

Ordering Information

WATCH NOW

PRODUCT CODE	MODEL	PACK SIZE
189410-22	Rocker 410C	Each

TECHNICAL SPECIFICATIONS



SPECIFICATIONS	ROCKER 300C	ROCKER 410C
MAX. POWER	60W	80W
MAX. CURRENT	0.3A	0.4A
MAX. VACUUM	99mbar	25mbar
MAX. FLOW RATE	20L/min	
NOISE LEVEL	50dB	52dB
HOSE BARB		ID8
NET WEIGHT	4.1kg	5.7kg
DIMENSIONS (LxWxH)	29 x 14 x 20cm	31 x 13.5 x 20.4cm
VACUUM REGULATOR		Yes
OVERHEAT PROTECTION		Yes
MOISTURE TRAP		Yes
TEFLON COATED		Yes

Vacuum Pumps | Chemical Resistant



Chemker™ pumps are diaphragm vacuum pumps made from PTFE, offering exceptional chemical resistance, suitable for a broad spectrum of harsh acidic, basic and solvent vapours. Chemker™ pumps are meticulously engineered to be cost-effective, to operate quietly and to provide optimal safety.

FEATURES + BENEFITS

Superior Chemical Resistance

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

Oil-Free & Maintenance Free

Driven by a diaphragm, oil-mist-free, without the need of lubricant, regular oil changes or maintenance.

Quiet & Low Vibration

Motor driven transmission and vibration-proof assembly, resulting in a quieter and more stable operation.

Thermal Protection Device

Has a built-in thermal protection device to shut off the pump automatically when it is overheated. Once the temperature decreases, it resumes operation.

Warranty

1 year warranty.

Certified

- CE certification
- UKCA certification
- RoHS certification

OPERATION

No air pollution, maintenance free

Oil-free diaphragm design eliminates use of lubricant. No oil mist and works quieter

100-hour non-stop operation guaranteed



Superior corrosion resistance

Fully PTFE-made pump head and FFKM valves

Overheat protection

Auto-stop and restart with built-in intelligence

Vacuum regulator & moisture trap

Makes operation easier and pump life longer (*Chemker 411 & 611)

Vacuum Pumps | Chemical Resistant



CHEMKER 300

WATCH NOW

- Max. Vacuum: 99mbar abs.
- Max. Flow Rate: 18L/min
- Noise Level: 52dB
- Overheat Protection:



Applications

- Vacuum Filtration
- Solvent Purification
- Solid Phase Extraction
- Gel electrophoresis

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
169300-22	Chemker 300	Each

CHEMKER 611

WATCH NOW

- Max. Vacuum: 7mbar abs.
- Max. Flow Rate: 30L/min
- Noise Level: 60dB
- Glass Moisture Trap:
- Vacuum Regulator:
- Overheat Protection:



Applications

- Vacuum Filtration
- Vacuum Drying
- Vacuum Oven
- Solvent Purification
- Rotary Evaporation

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
169611-22	Chemker 611	Each

CHEMKER 411

WATCH NOW

- Max. Vacuum: 10mbar abs.
- Max. Flow Rate: 18L/min
- Noise Level: 52dB
- Glass Moisture Trap:
- Vacuum Regulator:
- Overheat Protection:



Applications

- Vacuum Filtration
- Solvent Purification
- Gel Drying
- Rotary Evaporation

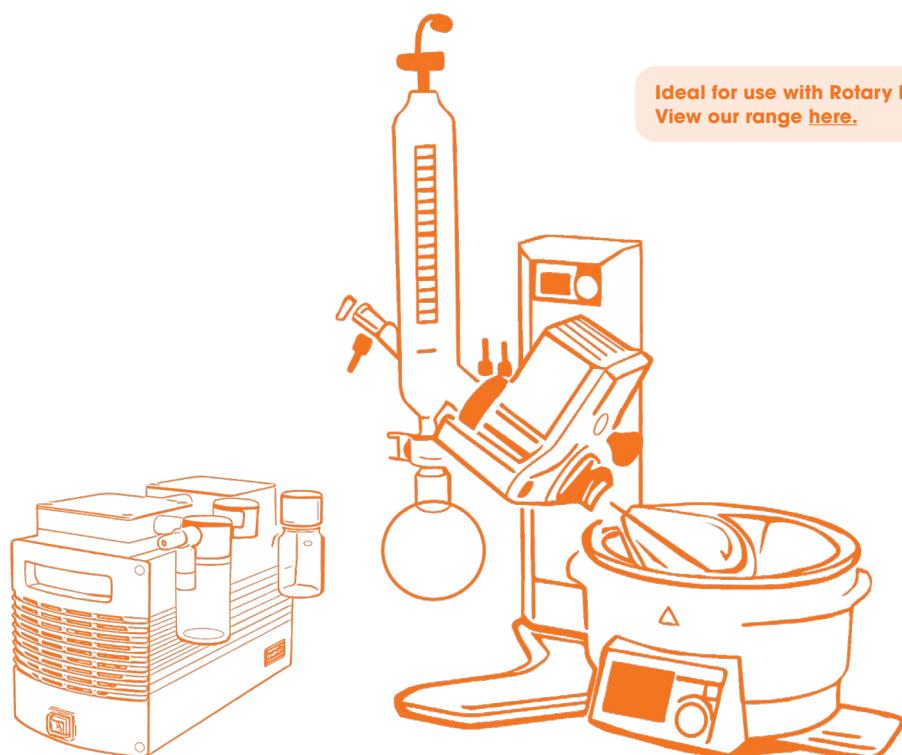
Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
169411-22	Chemker 411	Each

TECHNICAL SPECIFICATIONS



SPECIFICATIONS	CHEMKER 300	CHEMKER 411	CHEMKER 611
MAX. POWER	60W	90W	220W
MAX. CURRENT	0.32A	0.5A	1.2A
MAX. VACUUM	99mbar abs.	10mbar abs.	7mbar abs.
MAX. FLOW RATE	18L/min		30L/min
VOLTAGE / FREQUENCY		220V/50Hz	
NOISE LEVEL	52dB		60dB
HOSE BARB	ID8		ID10
NET WEIGHT	5.0kg	7.4kg	13.7kg
DIMENSIONS (LxWxH)	20 x 11 x 21cm	26 x 24 x 19cm	35 x 20 x 24cm
GLASS MOISTURE TRAP	-		Yes
VACUUM REGULATOR	-		Yes
OVERHEAT PROTECTION		Yes	



Diaphragm Liquid Pump | Alligator 200



The Alligator 200 is a compact diaphragm liquid pump that transfers filtered liquid directly to waste, eliminating the need for external waste bottles. An Infrared sensor enables touchless, contamination-free operation. It's clean and efficient thanks to the oil-free, brushless DC motor.

FEATURES + BENEFITS

Time Saving

The built-in liquid pump transfers filtered liquid directly to waste, saving time by simplifying the filtration process.

Space Saving

Saves up to 40% bench space, as it connects directly to the filtration system without attaching to waste bottles which can take up a lot of bench space!

Clean and Efficient

Does not require lubricant and is oil-mist-free. Its 60W brushless DC motor delivers stronger, more stable flow than comparable models.

ISO 8199

Complies with ISO 8199 regulation and is ideal for microbiological sample filtration.



OPERATION

Touchless operation

Infrared sensor activates filtration



Time saving

Liquid goes directly to drainage/output

Save up to 40% bench space

Direct drainage saves you more space

Liquid input waterproof design

Liquid direct drainage/output
No contact with potential hazards

ISO 8199

Ideal for microbiological sample filtration

Alligator 200

Efficient built-in brushless DC motor

Provides a stable flow rate and prolongs pump life



Diaphragm Liquid Pump | Alligator 200

lab
co
SCIENTIFIC

SAVE UP TO 40% OF BENCH SPACE!



TECHNICAL SPECIFICATIONS

SPECIFICATIONS	ALLIGATOR 200
POWER	DC24V, 1.8A
MAX. VACUUM	313mbar
MAX. LIQUID FLOW RATE	4.5L/min
MOTOR	60W Brushless DC Motor
NOISE LEVEL	60dB
HOSE BARB	ID8
MATERIAL CONTACT WITH FILTRATE	SS316, FKM, Silicone, PP, PPS
SAFETY	Thermal Protection
NET WEIGHT	2.4kg
DIMENSIONS (LxWxH)	24 x 19 x 20cm

APPLICATIONS

- Microbiological test by MF Technique
- Suspended solid test
- General filtration

See the Alligator 200 in action below:



WATCH NOW

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
181200-02	Alligator 200	Each

Accessories



[180300-01](#)
Manifold 3 Place Stainless Steel



[180600-01](#)
Manifold 6 Place Stainless Steel



[200310-01](#)
Filter Holder PES Magnetic 47mm - Supplied with lid



[200510-01](#)
Filter Holder PES Magnetic 47mm - Supplied with lid



[200300-01](#)
Filter Holder PES Magnetic No. 8 Stopper 47mm - Supplied with lid



[200500-01](#)
Filter Holder PES Magnetic No. 8 Stopper 47mm - Supplied with lid



[167120-32](#)
Filter Holder 25mm - Sintered Glass



[167120-31](#)
Filter Holder 47mm - Sintered Glass



[167120-38](#)
Filter Holder 90mm - Sintered Glass



[167120-34](#)
Filter Holder Glass 25mm - Stainless Steel Support with PTFE Gasket



[167120-33](#)
Filter Holder Glass 47mm - Stainless Steel Support with PTFE Gasket



[167120-37](#)
Filter Holder Glass 90mm - Metal coated with PTFE Gasket



[197200-48](#)
Bottle Vacuum Heavy Duty PP 4L



[1632412022500](#)
Flask 500mL



[355.012.901](#)
Bottle 1,000mL



[167110-16](#)
Stopper for Filter Holders No. 8 Silicone



[197000-60](#)
Suction Cap for GL45 Bottle PP 6mm Hose Barb



[197000-65](#)
Adapter Filtration GL45 PP PTFE Gasket, 4-8mm Hose Barb for No. 8 Stopper



[167200-38](#)
Tubing Silicone 6mm ID x 12mm OD, 1m length

View our complete range of filtration apparatus & accessories online [here](#).

Vacuum System Setups



BUY THE COMPLETE SETUP!

Vacuum Pump Setup

Filter Holders PES Magnetic 47mm with lid
[200310-01](#)

[VIEW HERE](#)

Silicone Tubing, 1m length
[167200-38](#)

[VIEW HERE](#)

Rocker 400 Vacuum Pump
[167400-22](#)

[VIEW HERE](#)



Alligator 200 Setup

Filter Holders PES Magnetic 47mm with lid
[200310-01](#)

[VIEW HERE](#)

Alligator 200 Diaphragm Pump
[181200-02](#)

[VIEW HERE](#)



Vacuum Pumps | Compact Oil-Free



The Lafil series combines a vacuum pump with a filtration system in a compact, all-in-one design. This integration reduces the need for separate components and simplifies your laboratory setup. Featuring overflow protection and thermal protection, these vacuum pumps ensure user safety and extend the lifespan of the unit.

FEATURES + BENEFITS

Compact & Safe

Unique filtration unit that combines a vacuum source with optional filtration ware. Its compact design saves bench space.

Maintenance Free

Lafil pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance.

Thermal Protection

Every Lafil series pump has a built-in thermal protection device to turn off the pump automatically when overheated, and then resume operation when the temperature decreases.



*Filter holder & funnel sold separately.

The fence-like platform design prevents the waste bottle from tipping over

LAFIL 300

WATCH NOW

- Max. Vacuum: 99mbar abs.
- Max. Flow Rate: 20L/min
- Vacuum Regulator: ✓
- Overheat Protection: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Microbiology Testing

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
197300-22	Lafil 300	Each

LAFIL 400

WATCH NOW

- Max. Vacuum: 25mbar abs.
- Max. Flow Rate: 20L/min
- Vacuum Regulator: ✓
- Overheat Protection: ✓



Applications

- Vacuum Filtration
- Total Suspended Solids
- Microbiology Testing

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
197400-22	Lafil 400	Each

LAFIL 300C

TEFLON COATED!

WATCH NOW

- Max. Vacuum: 99mbar abs.
- Max. Flow Rate: 20L/min
- Vacuum Regulator: ✓
- Overheat Protection: ✓



Applications

- Vacuum Filtration
- Solvent Purification
- Solid Phase Extraction

Ordering Information

PRODUCT CODE	MODEL	PACK SIZE
197330-22	Lafil 300C	Each

Vacuum Pumps | Compact Oil-Free



TECHNICAL SPECIFICATIONS



SPECIFICATIONS	LAFIL 300	LAFIL 400	LAFIL 300C
MAX. POWER	60W	80W	60W
MAX. CURRENT	0.3A	0.4A	0.3A
MAX. VACUUM	99mbar	25mbar	99mbar
MAX. FLOW RATE		20L/min	
NOISE LEVEL	50dB	52dB	50dB
HOSE BARB		ID8	
NET WEIGHT	5.9kg	7kg	5.9kg
DIMENSIONS (LxWxH)		34 x 24 x 30cm	
VACUUM REGULATOR		Yes	
OVERFLOW PROTECTION		Need Overflow Protection? Refer to table below.	
OVERHEAT PROTECTION		Yes	
TEFLON COATED	-		Yes

Suction Waste Bottle | Built-in Overflow Protection



SPECIFICATIONS	DESCRIPTION
CAPACITY	1,200mL
MATERIAL	PES
GRADUATE INCREMENTS	100mL
OVERFLOW PROTECTION	Yes
CAP WITH SUCTION FITTING	Yes
HOSE BARB	ID8
AUTOCLAVABLE	Yes



PRODUCT CODE	DESCRIPTION	PACK SIZE
197000-11	Suction System Accessory Waste Bottle	Each

Vacuum Pumps | Compact Oil-Free



BIODOLPHIN SUCTION KIT

Turn a Lafil pump into a Laboratory Suction System with the BioDolphin suction kit! This kit is an ideal solution for cell culture aspiration and laboratory waste suction.

FEATURES + BENEFITS

Quick Connection

Easy installation between handle and adapters.

One-Finger Tip Ejection

Ergonomic ejector makes tip removal easy and effortless.

Easy Lock Switch

Maintain continuous suction with a single click to reduce effort during repetitive procedures.

Multi-Functional Storage Rack

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

Autoclavable

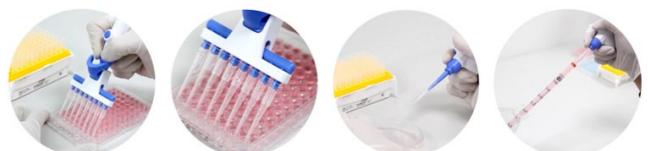
The complete kit except the storage rack is made of autoclavable materials, including POM and SS304.



[WATCH NOW](#)

Applications

- Cell culture aspiration
- Laboratory waste suction



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
199100-00	BioDolphin Suction Kit	Each
199100-30	1: Handle	Each
199100-46	2: 1-channel tip adapter (50mm)	Each
199100-76	3: 1-channel tip adapter (150mm)	Each
199100-47	4: 1-channel SS adapter (40mm)	Each
199100-48	5: 1-channel SS adapter (80mm)	Each
199100-49	6: 8-channel SS adapter (40mm)	Each
199100-75	7: 1-channel tip adapter with ejector	Each
199100-50	8: 8-channel tip adapter with ejector	Each
199100-61	9: Rack	Each



*Lafil & filter holder not included.

Vacuum Pumps | Compact Oil-Free



ACCESSORIES



Built-in Overflow Protection

[197010-30](#)
Filtration Set LF30 47mm 300mL PES



Built-in Overflow Protection

[197000-11](#)
Suction System Accessory Waste Bottle



[167200-38](#)
Tubing Silicone 6mm ID x 12mm OD
1m length

Complete Lafil System Setup



Filtration Set LF30 300mL PES
[197010-30](#) [VIEW HERE](#)

Silicone Tubing, 1m length
[167200-38](#) [VIEW HERE](#)

Lafil 300 Compact
Vacuum Pump
[197300-22](#) [VIEW HERE](#)

Compressors / Air Supply



ROCKER 430 VACUUM PUMP + COMPRESSOR

The Rocker 430 is an oil-free, piston-driven vacuum pump and compressor, offering both suction and pressure capabilities. With built-in safety features like Prote™ overflow protection, overheat protection as well as moisture traps that filter particles to extend pump life.

It is ideal for lab applications like filtration, air sampling and microbial testing.



FEATURES + BENEFITS

- 2-in-1 machine
- Oil-free & maintenance free
- Prote™ overflow protection
- Overheat protection
- Moisture trap with filter cartridge

Specifications

- Max. Vacuum: 145mbar abs.
- Max. Pressure: 80psi
- Max. Flow Rate: 28L/min
- Vacuum Regulator: ✓
- Filter Cartridge: ✓
- Overflow Protection: ✓
- Overheat Protection: ✓

Applications

- Vacuum Filtration
- Microbiology Testing
- Total Suspended Solids
- Pressure Filtration
- Air Sampling

Ordering Information



PRODUCT CODE	MODEL	PACK SIZE
167430-22	Rocker 430	Each

ROCKER 320 COMPRESSOR

- Max. Pressure (w/o moisture trap): 90psi
- Max. Pressure (w/ moisture trap): 80psi
- Max. Flow Rate: 12L/min
- Pressure Regulator: ✓
- Filter Cartridge: ✓
- Overheat Protection: ✓



Applications

- Aeration
- Pressure filtration

Ordering Information



PRODUCT CODE	MODEL	PACK SIZE
167320-22	Rocker 320	Each

ROCKER 440 COMPRESSOR

- Pressure range: 40 ~ 60psi
- Max. Flow Rate (w/o tank): 25L/min
- Max. Flow Rate (w/ tank): 60L/min
- Pressure Regulator: ✓
- Filter Cartridge: ✓
- Overheat Protection: ✓



Applications

- Fermenter
- Bioreactor
- Gas Chromatography

Ordering Information



PRODUCT CODE	MODEL	PACK SIZE
167440-22	Rocker 440	Each

Max. Flow Rate (w/ tank)

PRESSURE	FLOW RATE
20psi	40L/min
40psi	50L/min
60psi	60L/min

Compressors / Air Supply

Lab
co
SCIENTIFIC

TECHNICAL SPECIFICATIONS



SPECIFICATIONS	ROCKER 430 VACUUM PUMP + COMPRESSOR	ROCKER 320 COMPRESSOR	ROCKER 440 COMPRESSOR
MAX. POWER	125W	85W	125W
MAX. CURRENT	0.6A	0.4A	0.6A
MAX. VACUUM	145mbar	-	-
MAX. PRESSURE (W/O TANK)	-	90psi	See table on page 22
MAX. PRESSURE (W/ TANK)	80psi		See table on page 22
MAX. FLOW RATE	28L/min	12L/min	60L/min
HORSE POWER	1/6 HP	1/8 HP	1/6 HP
NOISE LEVEL	52dB	50dB	52dB
HOSE BARB	ID8		
NET WEIGHT	5.5kg	4.1kg	8.4kg
DIMENSIONS (LxWxH)	24.7 x 23.5 x 20.4cm	27 x 14 x 17cm	29 x 31 x 25cm
VACUUM GAUGE	Yes	-	-
VACUUM REGULATOR	Yes	-	-
FILTER CARTRIDGE	Yes		
OVERFLOW PROTECTION	Yes	-	-
OVERHEAT PROTECTION	Yes		
PRESSURE REGULATOR	Yes		

Microplate Vacuum Manifold



WELVAC 200

The WelVac 200 Vacuum Manifold simplifies and accelerates nucleic acid purification by replacing repetitive centrifugation with a continuous vacuum-based system. Designed for plasmid, genomic, viral DNA/RNA, and PCR cleanup.

It supports both 96-well microplates and individual spin columns using a universal adapter board and luer-style connectors. Made of aluminium and lightweight, it's efficient and space saving.



FEATURES + BENEFITS

Simplifying Operation

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

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.

APPLICATIONS

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

ACCESSORIES



[195200-34](#)
Silicone Tubing



[195200-36](#)
Deep Well



[195200-42](#)
Spin Column



[195200-43](#)
Luer Connectors



[195200-44](#)
Luer Stoppers



[195200-45](#)
Waste Tray

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
195200-00	Microplate Vacuum Manifold WelVac 200	Each
195200-34	Silicone Tubing	30cm
195200-36	Deep Well	Each
195200-42	Spin Column	Each
195200-43	Luer Connectors	PK25
195200-44	Luer Stoppers	PK25
195200-45	Waste Tray	Each

Microplate Vacuum Manifold



TECHNICAL SPECIFICATIONS

SPECIFICATIONS	WELVAC 200
HOSE BARB	ID8
WEIGHT	2.6kg
DIMENSIONS (LxWxH)	23 x 12 x 10cm
MATERIALS	
VACUUM MANIFOLD	Aluminium
COLUMN ADAPTER BOARD	PC
GASKET / O-RING	Rubber
LUER CONNECTOR / STOPPER	Silicone



Complete WelVac System Setup

Rocker 300 Vacuum Pump

[167300-22](#)

[VIEW HERE](#)



WelVac 200 Microplate Vacuum Manifold

[195200-00](#)

[VIEW HERE](#)

WelVac 200 Spin Column, 24 Positions

[195200-42](#)

[VIEW HERE](#)

Silicone Tubing, 30cm length

[195200-34](#)

[VIEW HERE](#)

DATA TABLES

Pressure Conversion Table (Ultimate Vacuum)

psi	Atmosphere	mbar	kPa	Kg/cm ²	oz/in ²	in.Hg	mmHg (Torr)	in. H ₂ O
1	0.068	68.947	6.895	0.07	16	2.036	51.72	27.68
14.7	1	1013.2	101.3	1.033	235.1	29.92	760	406.8
0.0145	0.00098	1	0.1	0.00102	0.2321	0.02953	0.75006	0.40146
0.145	0.01	0.00001	1	0.01	2.321	0.295	7.501	4.015
14.22	0.968	980.664	98.07	1	227.6	28.96	735.6	393.7
0.063	0.004	4.309	0.431	0.004	1	0.127	3.232	1.73
0.491	0.033	33.863	3.386	0.035	7.858	1	25.4	13.6
0.019	0.001	1.333	0.133	0.001	0.309	0.039	1	0.535
0.036	0.002	2.4909	0.249	0.003	0.578	0.074	1.868	1

Flow Rate Table

Litre/min	CFM	m ³ /h	Litre/sec
1	0.03531	0.06	0.01666
28.316	1	1.69896	0.47193
16.667	0.58857	1	0.27778
60	2.11893	3.6	1

Cubic Measure Table

Millilitre	Litre	U.S. Ounce	U.S. Pint	U.S. Gal
1	0.001	0.033814	0.0021134	0.00026417
1,000	1	33.814	2.1134	0.26417
29.574	0.029574	1	0.0625	0.007813
473.176	0.473176	16	1	0.125
3,785.4	3.7854	128	8	1

DATA TABLES

Chemical Resistant of Commonly Used Materials Table

	Weak Acids	Weak Bases	Temperature (°C) Prolonged Use	Temperature (°C) Short-term Use	Izod Impact Strength (kg-cm/cm)	Ultraviolet Ray	Specific Gravity
ABS	E	E	75	100	21	P	1.06
PP	E	E	85	100	20	F	0.92
PC	E	F	130	140	12	F	1.20
POM	P	F	90	110	19.1	P	1.42
NYLON6	G	E	80	120	6	F	1.15
PSU	E	E	160	180	20	F	1.24
PES	E	E	180	220	8.7	F	1.37
PVDF	E	E	105	150	19.6	G	1.78
PTFE	E	E	260	260	16.3	G	2.25

E: Excellent G: Good F: Fairish P: Poor

Sterilisation Method

	Autoclavable (121°C, 20min)	Dry (160°C)	Ultraviolet Ray	Gamma Radiation
ABS	P	P	P	G
PP	F	P	F	P
PC	G	P	F	G
POM	F	P	P	P
NYLON6	G	P	F	F
PSU	E	G	F	G
PES	E	E	F	G
PVDF	G	P	G	G
PTFE	E	E	G	G

Note: Above information is based on experience to date. It is intended as a reference for use at your own discretion and risk.

E: Excellent G: Good F: Fairish P: Poor



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