

Ordering Information

- 167300-11(22) Rocker 300 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167400-11(22) Rocker 400 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167410-11(22) Rocker 410 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167600-11(22) Rocker 600 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167610-11(22) Rocker 610 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167320-11(22) Rocker 320 compressor, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167420-11(22) Rocker 420 compressor, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167440-11(22) Rocker 440 compressed air supply system, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167330-00 Rocker 300DC vacuum pump, DC12V
- 169300-11(22) Chemker 300 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 169400-11(22) Chemker 400 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 169410-11(22) Chemker 410 vacuum pump, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 167204-11(22) VF204 vacuum filtration stand, AC110V, 50/60Hz (AC220V, 50/60Hz)
- 169300-06 Vacuum regulator/moisture trap (for Chemker series)
- 167300-06 Vacuum regulator/moisture trap (for Rocker series)
- 167203-06 Vacuum regulator/moisture trap (for VF204)
- 167300-07 Filter cartridge (for Rocker, Chemker, VF204)
- 167100-23 BioVac 310 stainless steel manifold (3 branch)
- 167100-26 BioVac 610 stainless steel manifold (6 branch)
- 167100-43 BioVac 311 aluminum manifold (3 branch)
- 167100-46 BioVac 611 aluminum manifold (6 branch)
- 167100-18 Pall 4242 magnetic funnel
- 167100-41 Stainless steel cup (100ml) for aluminum manifold
- 167300-08 Magnetic suction flask set (1000ml) with bottom plate and drain
- 167100-31 Stainless steel frit
- 167200-31 Suction bottle (1000ml) with float level control
- 167200-32 Suction bottle (2000ml) with float level control
- 167200-33 Suction bottle (2000ml) with float level control
- 167200-39 Rack for suction bottle
- 167300-60 Repair kit for Rocker 300, 500
- 167400-60 Repair kit for Rocker 400, 410
- 167600-60 Repair kit for Rocker 600, 610
- 169300-60 Repair kit for Chemker 300
- 169400-60 Repair kit for Chemker 400, 410
- 167320-30 Converting kit for Rocker 300 to get pressure
- 167420-30 Converting kit for Rocker 400 to get pressure

Rocker Scientific Co., Ltd.

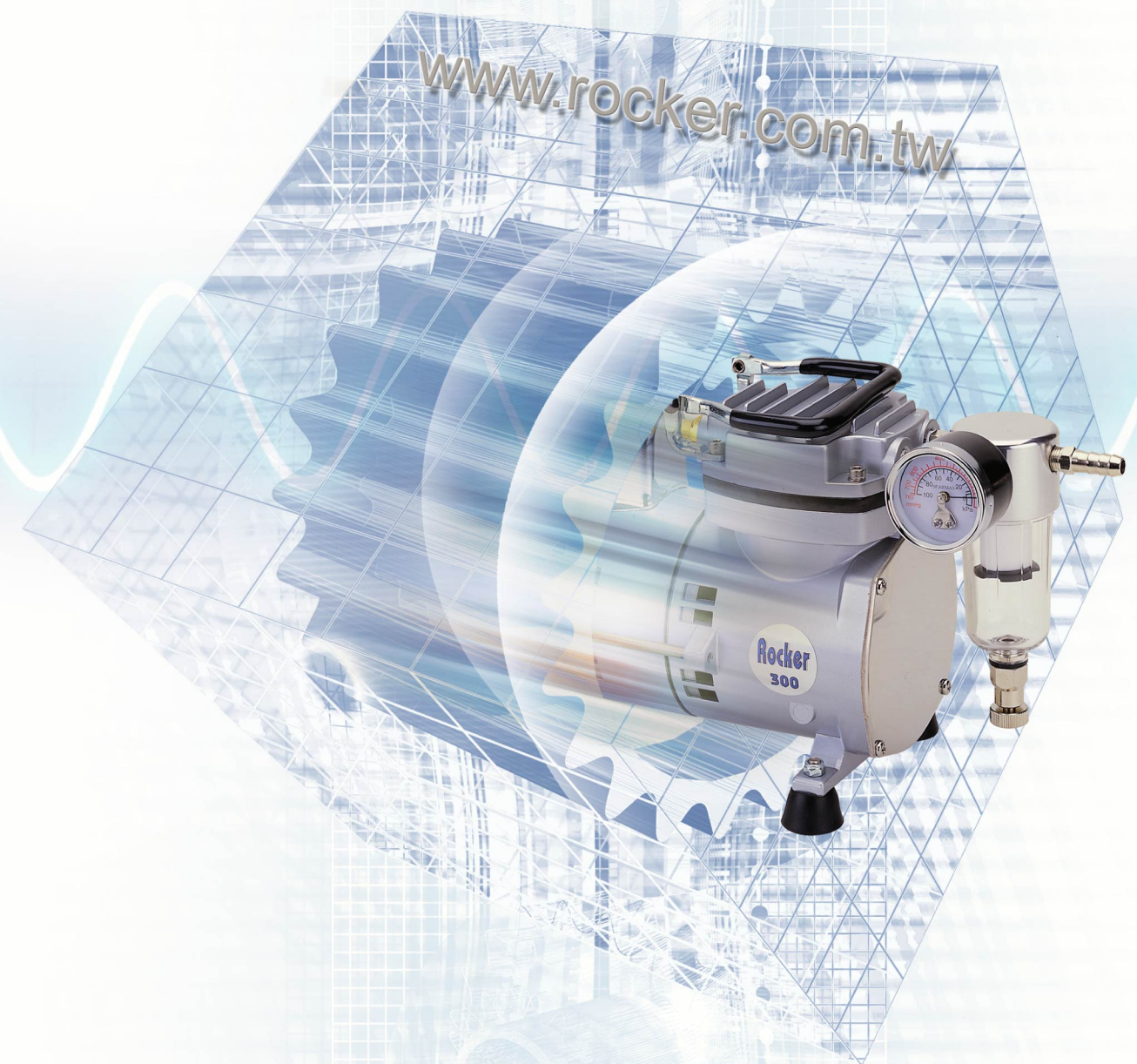
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Distributor



ROCKER

Oil-free Vacuum Pump



Rocker Scientific Co., Ltd.

Rocker Series

Oil-free Vacuum Pump

Description

Rocker series vacuum pumps are piston-powered, oil-free and designed with the humanized concept of combining innovative electronic and mechanical technology which make Rocker family with many benefits:

- Quite and low vibration:
The lowest noise level among equivalent products.
- Compact and light weight:
Compact precise construction and lightweight aluminum die-cast.
- Clean and maintenance free:
Oil-free design provides clean and maintenance-free operation, a 2-year warranty of free service parts.
- Safe and friendly:
CE approved high quality and built-in thermal protection device offer user safe and friendly operation.

Application

- Liquid filtration for microbiology
- Liquid sprayer
- Vacuum tweezer
- Vacuum oven
- Suspended solid test
- Air sampling
- Aeration bubbler

Note

- Rocker series pumps are not in "Chemical-Resistant" design. Do not use it with any corrosive chemical such as acid, alkali and organic air.
- The filter cartridge is a consumable and not included in warranty of free service parts.
- Always avoid any material or liquid sucked down into the pump that will cause serious damage.

Unit Conversion

- 1mmHg=1torr=1.333mbar=133.Pa=0.039inHg=0.019psi
- 1L/min=0.035CFM=0.0167m³/h=60L/h
- 1Hp=0.736Kw=736w

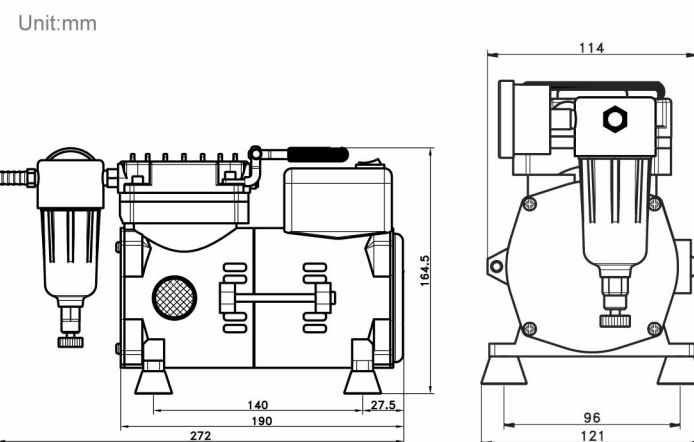
Rocker 300

Oil-free Vacuum Pump

Product Appearance



Dimension Diagram



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	65	60
Max. current(A)	0.7	0.3
Max. vacuum	-650mmHg=85.5kPa=110torr	
Vacuum	0mmHg	20 l/min=0.71CFM
	100mmHg	17 l/min=0.6CFM
	200mmHg	15 l/min=0.53CFM
	300mmHg	12 l/min=0.42CFM
	400mmHg	9.5 l/min=0.34CFM
	500mmHg	6.5 l/min=0.23CFM
	600mmHg	2 l/min=0.07CFM
Motor rotation	1700RPM	1450RPM
Capacitance	6uf/250V	2uf/450V
Horse power	1/8HP	
Pole	4P	
Net weight	4.1kg	
Gross weight	5.1kg	
Port thread	5/16"	
Noise level	50dB	

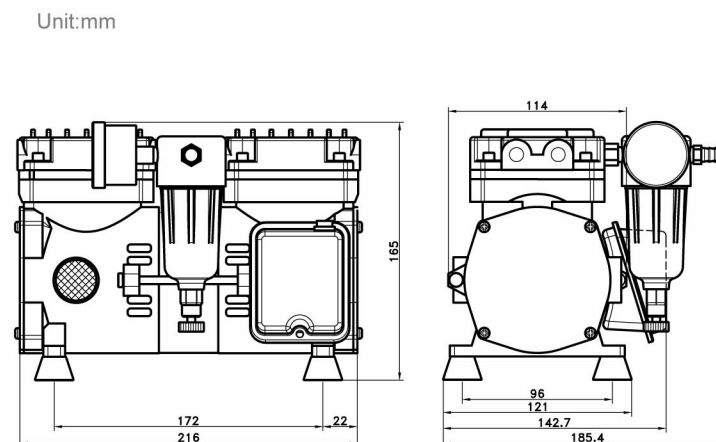
Rocker 400

Oil-free Vacuum Pump

Product Appearance



Dimension Diagram



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	100	80
Max. current(A)	1.0	0.4
Max. vacuum	-650mmHg=85.5kPa=110torr	
Vacuum	0mmHg	37 l/min=1.31CFM
	100mmHg	34 l/min=1.2CFM
	200mmHg	32 l/min=1.13CFM
	300mmHg	27 l/min=0.95CFM
	400mmHg	23 l/min=0.81CFM
	500mmHg	15 l/min=0.53CFM
	600mmHg	5 l/min=0.17CFM
Motor rotation	1750RPM	1450RPM
Capacitance	10uf/250V	3uf/450V
Horse power	1/6HP	
Pole	4P	
Net weight	5.2kg	
Gross weight	6.2kg	
Port thread	5/16"	
Noise level	50dB	

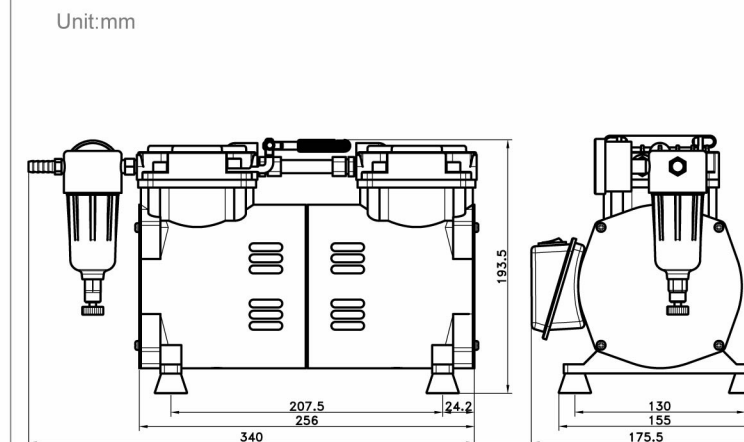
Rocker 600

Oil-free Vacuum Pump

Product Appearance



Dimension Diagram



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	210	190
Max. current(A)	1.9	1
Max. vacuum	-650mmHg=85.5kPa=110torr	
Vacuum	0mmHg	60 l/min=2.12CFM
	100mmHg	56 l/min=1.98CFM
	200mmHg	52 l/min=1.84CFM
	300mmHg	48 l/min=1.7CFM
	400mmHg	38 l/min=1.34CFM
	500mmHg	24 l/min=0.85CFM
	600mmHg	10 l/min=0.35CFM
Motor rotation	1700RPM	1450RPM
Capacitance	16uf/250V	5uf/400V
Horse power	1/4HP	
Pole	4P	
Net weight	7.6kg	
Gross weight	8.6kg	
Port thread	5/16"	
Noise level	52dB	

Rocker 410

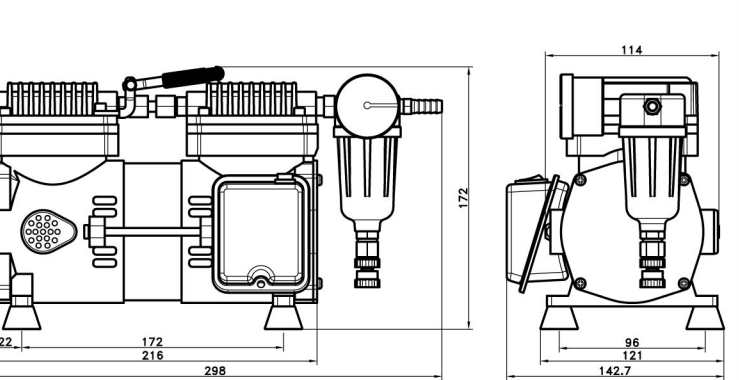
Oil-free Vacuum Pump

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	100	80
Max. current(A)	1.0	0.4
Max. vacuum	-750mmHg=99.99kPa=10torr	
Vacuum	0mmHg	22 l/min=0.78CFM
	100mmHg	21 l/min=0.74CFM
	200mmHg	18 l/min=0.64CFM
	300mmHg	16 l/min=0.57CFM
	400mmHg	14 l/min=0.49CFM
	500mmHg	11 l/min=0.39CFM
	600mmHg	8 l/min=0.28CFM
Motor rotation	1750RPM	1450RPM
Capacitance	10uf/250V	3uf/450V
Horse power	1/6HP	
Pole	4P	
Net weight	5.2kg	
Gross weight	6.2kg	
Port thread	5/16"	
Noise level	50dB	

Rocker 610

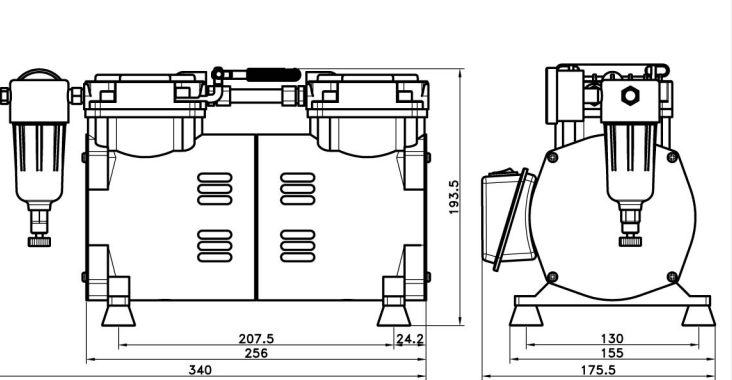
Oil-free Vacuum Pump

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	210	190
Max. current(A)	1.9	1
Max. vacuum	-750mmHg=99.99kPa=10torr	
Vacuum	0mmHg	35 l/min=1.24CFM
	100mmHg	33 l/min=1.17CFM
	200mmHg	29 l/min=1.02CFM
	300mmHg	27 l/min=0.95CFM
	400mmHg	23 l/min=0.81CFM
	500mmHg	17 l/min=0.6CFM
	600mmHg	14 l/min=0.49CFM
Motor rotation	1700RPM	1450RPM
Capacitance	16uf/250V	5uf/400V
Horse power	1/4HP	
Pole	4P	
Net weight	7.6kg	
Gross weight	8.6kg	
Port thread	5/16"	
Noise level	52dB	

DC Power Vacuum Pump

Description

- Rocker 300DC receives all following benefits of Rocker family except powered by 12V DC power supply. It offers convenient operation in vehicle, outdoors or anywhere without AC power.
- Quite and low vibration:
The lowest noise level among equivalent products.
 - Compact and light weight:
Compact precise construction and lightweight aluminum die-cast.
 - Clean and maintenance free:
Oil-free design provides clean and maintenance-free operation, a 2-year warranty of free service parts.
 - Safe and friendly:
High quality and built-in thermal protection device offer user safe and friendly operation.

Application

- Liquid filtration for microbiology
- Liquid sprayer
- Vacuum tweezer
- Vacuum oven
- Suspended solid test
- Air sampling
- Aeration bubbler

Note

- Rocker series pumps are not in "Chemical-Resistant" design. Do not use it with any corrosive chemical such as acid, alkali and organic air.
- The filter cartridge is a consumable and not included in warranty of free service parts.
- Always avoid any material or liquid sucked down into the pump that will cause serious damage.

Unit Converion

- 1mmHg=1torr=1.333mbar=133.Pa=0.039inHg=0.019psi
- 1L/min=0.035CFM=0.0167m3/h=60L/h
- 1Hp=0.736Kw=736w

Rocker 300DC

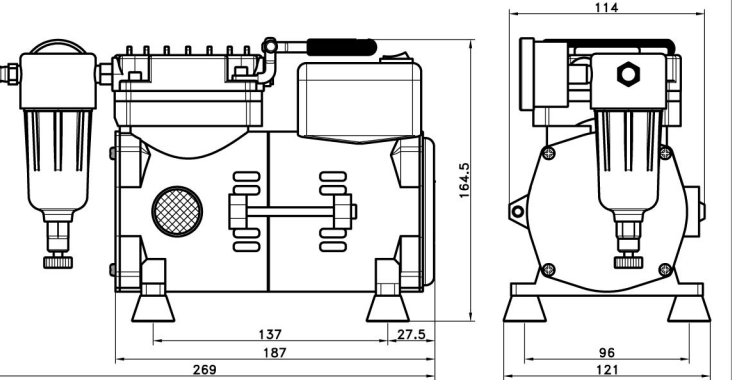
DC Power Vacuum Pump

Product Appearance



Dimension Diagram

Unit:mm



Power	DC 12V
Max. power rate (W)	35
Max. current(A)	3
Max. vacuum	-650mmHg=85.5kPa=110torr
Vacuum	0mmHg
	24 l/min=0.85CFM
	100mmHg
	20 l/min=0.71CFM
	200mmHg
	17 l/min=0.6CFM
	300mmHg
	13 l/min=0.46CFM
	400mmHg
	10 l/min=0.35CFM
	500mmHg
	6.0 l/min=0.21CFM
	600mmHg
	2.0 l/min=0.07CFM
Motor rotation	1800RPM
Horse power	1/8HP
Pole	4P
Net weight	3.5kg
Gross weight	4.5kg
Port thread	5/16"
Noise level	50dB

Chemker Series

Chemical resistant Vacuum Pump

Description

Chemker 300 are acid, alkali and organic solution resistant vacuum pumps that can apply to various applications. All wetted parts are made of PTFE material; the outer case is processed with squeeze-casting aluminum and anti-rust treatment. Air driven diaphragm will fit to test a variety of corrosive gases.

Chemker 300 are designed under consideration of friendly operation by using innovative mechanical technology and by following Rocker series' low-noise design only at 50 dB to make user free from noise pollution in laboratory. The oil-free design will help to lower both cost and time on maintenance. To consider the safety, Chemker series pumps are all equipped with a thermal protection device that will automatically shut down and won't resume operation until the temperature cool down.

Application

- Various filtration applications
- Centrifugal Evaporator
- Solid-Phase Extraction (SPE)
- Vacuum Evaporator
- Gel electrophoresis

Note

- In case of any corrosive liquid sucked into the pump, please ensure to draw out it as soon as the test is finished in order to keep the pump from the damage caused by corrosive liquid soaked inside the pump for a long time.
- Always ensure to draw in clean air by keeping running the pump for at least 2 minutes after the operation ends to prolong the pump's lifetime.
- The filter cartridge is a consumable and not included in warranty of free service parts. Please replace it periodically.

Unit Converion

- 1mmHg=1torr=1.333mbar=133.Pa=0.039inHg=0.019psi
- 1L/min=0.035CFM=0.0167m³/h=60L/h
- 1Hp=0.736Kw=736w

Chemker 300

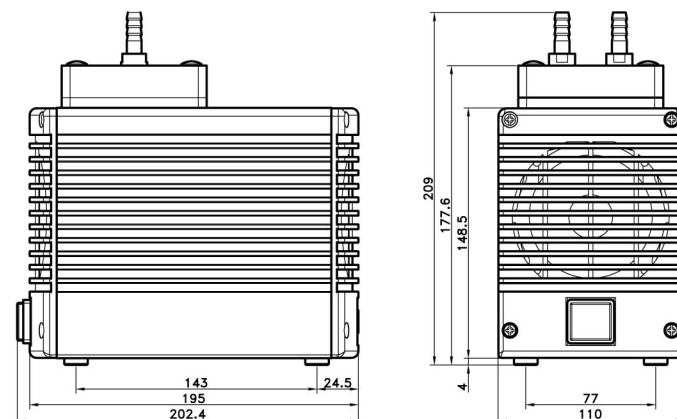
Chemical resistant Vacuum Pump

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power (w)	70	60
Max. current (A)	0.8	0.32
Max. vacuum	-600mmHg=79kPa=160torr	
Max. pressure	25PSI	
Vacuum	0mmHg	25 l/min=0.88CFM
	100mmHg	22 l/min=0.78CFM
	200mmHg	20 l/min=0.71CFM
	400mmHg	12 l/min=0.42CFM
	500mmHg	5 l/min=0.18CFM
	550mmHg	2 l/min=0.07CFM
Motor rotation	1700RPM	1450RPM
Capacitance	4uf/250V	2uf/450V
Horse power	1/8HP	
Pole	4P	
Net weight	5.0kg	
Gross weight	5.2kg	
Port thread	5/16"	
Noise level	50dB	

Chemker 400

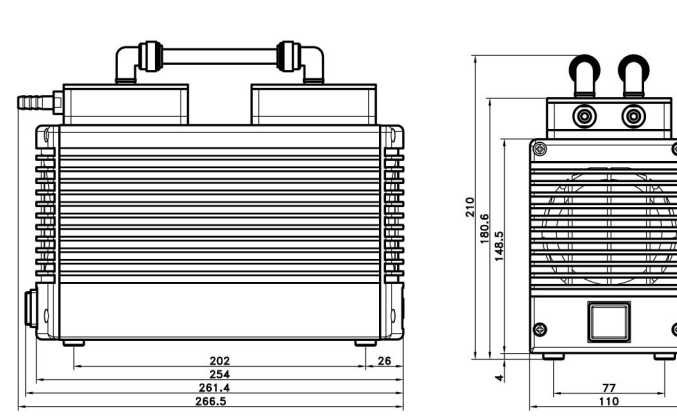
Chemical resistant Vacuum Pump

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power (w)	90	95
Max. current (A)	1.3	0.6
Max. vacuum	-600mmHg=79kPa=160torr	
Max. pressure	30PSI	
Vacuum	0mmHg	38 l/min=1.34CFM
	100mmHg	33 l/min=1.17CFM
	200mmHg	28 l/min=0.99CFM
	400mmHg	15 l/min=0.53CFM
	500mmHg	7 l/min=0.25CFM
	550mmHg	4 l/min=0.14CFM
Motor rotation	1700RPM	1450RPM
Capacitance	8uf/250V	4uf/400V
Horse power	1/6HP	
Pole	4P	
Net weight	7kg	
Gross weight	7.4kg	
Port thread	5/16"	
Noise level	50dB	

Chemker 410

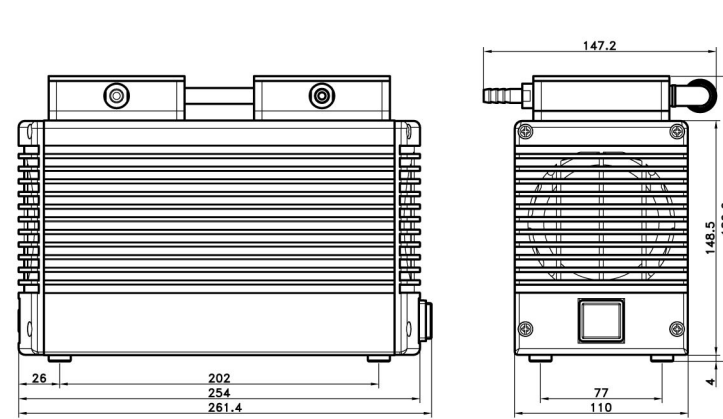
Chemical resistant Vacuum Pump

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power (w)	90	95
Max. current (A)	1.3	0.6
Max. vacuum	-750mmHg=99.99kPa=10torr	
Max. pressure	40PSI	
Vacuum	0mmHg	28 l/min=0.99CFM
	100mmHg	26 l/min=0.92CFM
	200mmHg	24 l/min=0.85CFM
	400mmHg	14 l/min=0.49CFM
	500mmHg	10 l/min=0.35CFM
	550mmHg	7 l/min=0.25CFM
Motor rotation	1700RPM	1450RPM
Capacitance	8uf/250V	4uf/400V
Horse power	1/6HP	
Pole	4P	
Net weight	7kg	
Gross weight	7.4kg	
Port thread	5/16"	
Noise level	50dB	

Rocker Series

Oil-free Compressor

Description

Rocker series compressors are piston-powered, oil-free and designed with the humanized concept of combining innovative electronic and mechanical technology which make Rocker family with many benefits:

- Quite and low vibration:
The lowest noise level among equivalent products.
- Compact and light weight:
Compact precise construction and lightweight aluminum die-cast.
- Clean and maintenance free:
Oil-free design provides clean and maintenance-free operation, a 2-year warranty of free service parts.
- Safe and friendly:
CE approved high quality and built-in thermal protection device offer user safe and friendly operation.

Application

- Oxygen supply in the water
- Agitation in ferment tank
- Bubble test
- Aeration test

Note

- The filter cartridge is a consumable and not included in warranty of free service parts.

Unit Conversion

- 1psi=69mbar=0.069bar=0.07kg/cm²
- 1L/min=0.035CFM=0.0167m³/h=60L/h
- 1Hp=0.736Kw=736w

Rocker 320

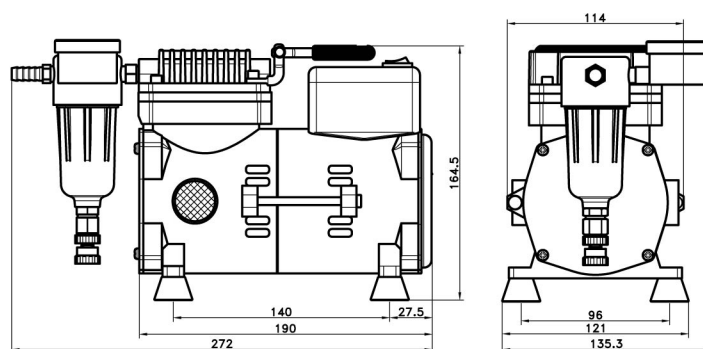
Oil-free compressor

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	90	85
Max. current (A)	0.9	0.4
Max. pressure (wt. moisture trap)	100psi=7kg/cm ² =6.9bar	
Max. pressure (w. moisture trap)	80psi=5.6kg/cm ² =5.5bar	
Max. Flow	0PSI	14 l/min=0.49CFM
	20PSI	12 l/min=0.42CFM
	30PSI	10.5 l/min=0.37CFM
	40PSI	7.5 l/min=0.26CFM
	60PSI	3 l/min=0.1CFM
Motor rotation	1700RPM	1400RPM
Capacitance	6uf/250V	2uf/450V
Horse power	1/8HP	
Pole	4P	
Net weight	4.1kg	
Gross weight	5.1kg	
Port thread	5/16"	
Noise level	50dB	

Rocker 420

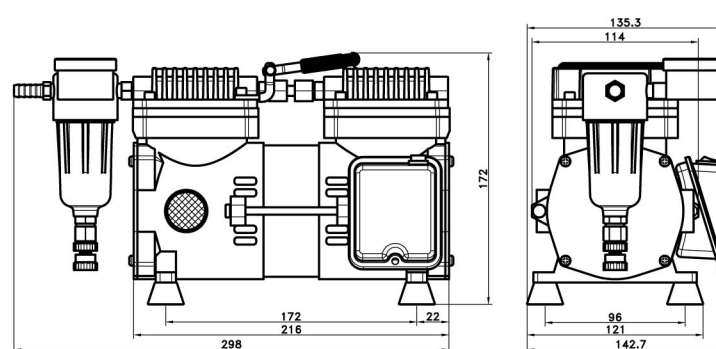
Oil-free compressor

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	147	125
Max. current (A)	1.51	0.6
Max. pressure (wt. moisture trap)	100psi=7kg/cm ² =6.9bar	
Max. pressure (w. moisture trap)	80psi=5.6kg/cm ² =5.5bar	
Max. Flow	0PSI	27 l/min=0.95CFM
	20PSI	23 l/min=0.81CFM
	30PSI	22 l/min=0.78CFM
	40PSI	20 l/min=0.7CFM
	60PSI	10 l/min=0.35CFM
Motor rotation	1700RPM	1400RPM
Capacitance	10uf/250V	3uf/450V
Horse power	1/6HP	
Pole	4P	
Net weight	5.2kg	
Gross weight	6.2kg	
Port thread	5/16"	
Noise level	50dB	

Rocker 440

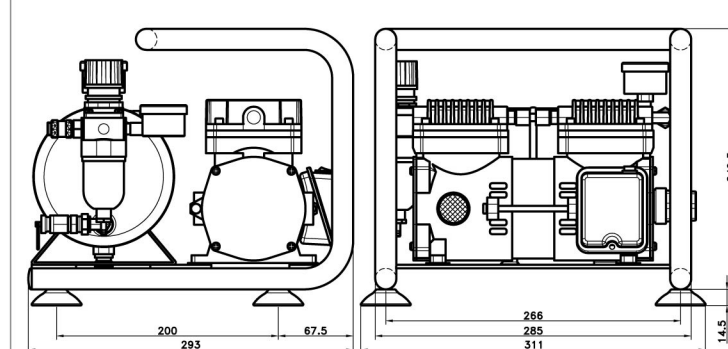
Oil-free compressor

Product Appearance



Dimension Diagram

Unit:mm



Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	147	125
Max. current (A)	1.51	0.6
Max. pressure	60psi=4.2kg/cm ² =4.1bar	
Max. Flow	0PSI	27 l/min=0.95CFM
	20PSI	23 l/min=0.81CFM
	30PSI	22 l/min=0.78CFM
	40PSI	20 l/min=0.7CFM
	50PSI	16 l/min=0.75CFM
Motor rotation	1700RPM	1400RPM
Capacitance	10uf/250V	3uf/450V
Horse power	1/6HP	
Pole	4P	
Net weight	8.4lg	
Gross weight	9.4kg	
Port thread	5/16"	
Noise level	50dB	

VF 204 is an innovatory vacuum filtration stand, which is the first unit to assemble all apparatuses in one base, enable us to save 1/2 table space than traditional way.

Unique magnetic fixing enable flask to be placed firmly. Rapid draining design let operator be free from unpacking flask to pour out filtrated water. Piston-powered and oil-free make it maintenance free.



Rapid draining design



Flask fixed by magnet

BioVac series multi-branch manifolds adopt two kinds of material: BioVac 310, 610 are made of stainless steel # 316 and BioVac 311, 611 are made of aluminum. In addition, each branch is individually controlled and all of them are autoclavable.



Aluminum Manifold



Stainless Steel manifold



Magnetic funnel
Pall Gelman 4242
Cat. No.:167100-18



Stainless steel cup
Capacity:100ml
Cat. No.:167100-41

Power	100-120V/60Hz	220-240V/50Hz
Max. power rate (W)	100	80
Max. current (A)	1.0	0.4
Max. vacuum	-650mmHg=85.5kPa=110torr	
Vacuum	0mmHg	37 l/min=1.31CFM
	100mmHg	34 l/min=1.2CFM
	200mmHg	32 l/min=1.13CFM
	300mmHg	27 l/min=0.95CFM
	400mmHg	23 l/min=0.81CFM
	500mmHg	15 l/min=0.53CFM
	600mmHg	5 l/min=0.17CFM
Motor rotation	1750RPM	1450RPM
Capacitance	10uf/250V	3uf/450V
Horse power	1/6HP	
Pole	4P	
Net weight	9.3kg	
Gross weight	12.1kg	
Port thread	5/16"	
Noise level	50dB	

Model	BioVac 310	BioVac 610	BioVac 311	BioVac 611
Material	Stainless steel	Stainless steel	Aluminum	Aluminum
Branch	3	6	3	6
Cup capacity	100 ml	100 ml	—	—
Filter size	47 mm	47 mm	—	—

Accessories



Chemical resistant vacuum
regulator/ moisture trap
(apply to Chemker series pumps)



Suction bottle
(1000ml ~ 3000ml, optional item)



Magnetic suction flask set
(capacity 1000 ml, with drain and bottom plate)