

LABORATORY PUMP


Oil Free Vacuum Pump
 Rocker 300 / 300DC
 Rocker 400 / 410
 Rocker 800 / 801 / 810 / 811
 Rocker 430
 Rocker 300C / Lafil 300C
 Lafil 300 / 400
 Diaphragm Liquid Pump
 Alligator 200
 Chemical Resistant Vacuum Pump
 Chemker 300 / 400
 Chemker 410 / 411
 Oil Free Compressor
 Rocker 320 / 420
 Air Supply System
 Rocker 440
 Rotary Vane Vacuum Pump
 Tanker 150 / 215 / 230
 Accessories

Oil Free Vacuum Pump Guide

Oil Free Vacuum Pump

	Rocker 300 Max. vacuum : 105 mbar Max. flow rate : 23 (20) L/min
	Rocker 300DC Max. vacuum : 145 mbar Max. flow rate : 25 L/min
	Rocker 400 Max. vacuum : 105 mbar Max. flow rate : 37 (34) L/min
	Rocker 410 Max. vacuum : 30 mbar Max. flow rate : 23 (20) L/min
	Rocker 800 Max. vacuum : 120 mbar Max. flow rate : 100 (80) L/min
	Rocker 801 Max. vacuum : 120 mbar Max. flow rate : 80 (68) L/min
	Rocker 810 Max. vacuum : 30 mbar Max. flow rate : 60 (50) L/min
	Rocker 811 Max. vacuum : 30 mbar Max. flow rate : 48 (40) L/min
	Rocker 430 Max. vacuum : 170 mbar Max. flow rate : 34 (28) L/min Max. pressure : 80 psi

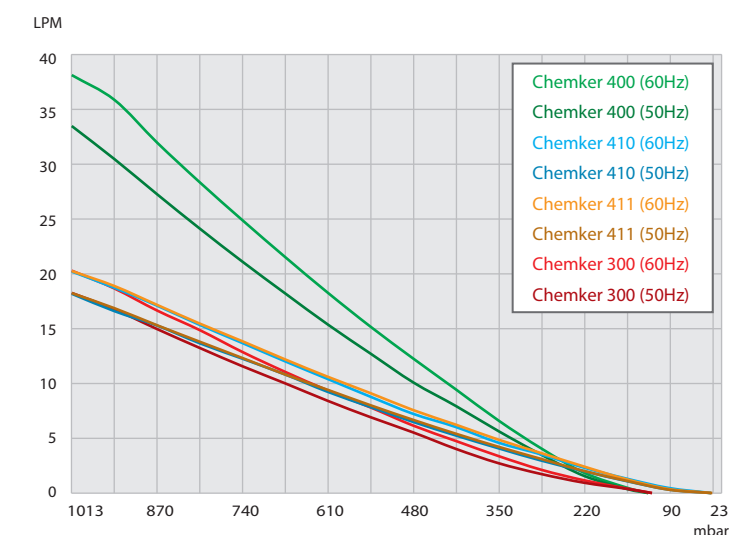
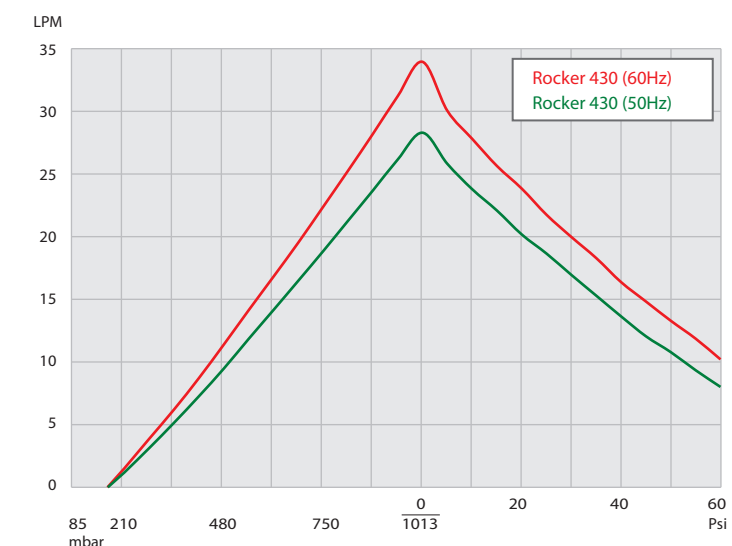
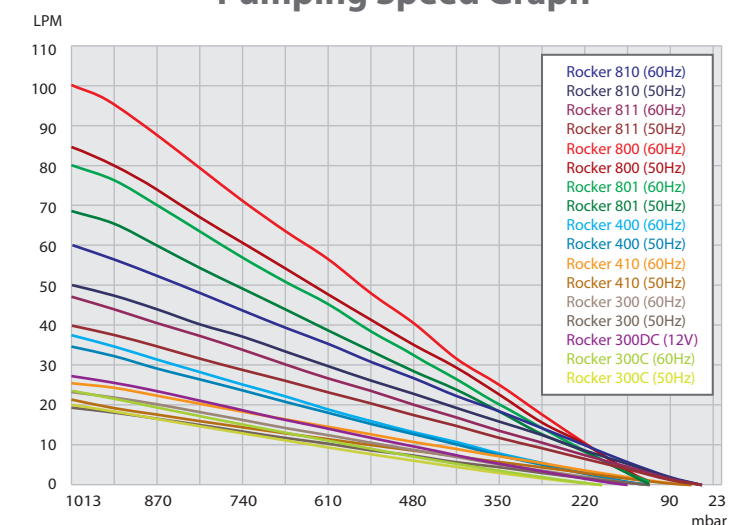
PTFE Coated Chemical Resistant Vacuum Pump

	Rocker 300C Max. vacuum : 170 mbar Max. flow rate : 23 (20) L/min
---	--

Chemical Resistant Vacuum Pump

	Chemker 300 Max. vacuum : 105 mbar Max. flow rate : 20 (18) L/min
	Chemker 400 Max. vacuum : 105 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

Pumping Speed Graph



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

Oil Free Vacuum Pump



Features

- **No air pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Prote™ overflow protection**
Rocker series pumps are equipped with Prote™ overflow protection which can prevent a large amount of liquid from being sucked into the pump.
- **Moisture trap with filter cartridge**
Rocker series pumps are equipped with filter cartridge in air inlet to filter particle and moisture to prolong the life of pump.
- **Vacuum regulator**
Rocker series pumps are equipped with vacuum regulator to adjust vacuum.
- **Thermal protection device**
Every motor of Rocker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **International certification**
CE certification
CSA certification
IP 30 protection (Rocker 300)
RoHS certification (Rocker 300)
- **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 (DC12 V)



Specification

Model	Rocker 300		Rocker 300DC
Voltage / Freq.	110V/60Hz	220V/50Hz	DC 12V
Max. power	65W	60W	35W
Max. current	0.7A	0.3A	3A
Max. vacuum	105 mbar / 91 kPa / 26.8 inHg		145 mbar / 87 kPa / 25.6 inHg
Max. flow rate	23 L/min	20 L/min	25 L/min
Vacuum regulator	Yes		Yes
Overflow protection/ Filter cartridge	Yes		Yes
Motor rotation speed	1750 RPM	1450 RPM	1800 RPM
Horse power	1/8 HP		1/8 HP
Noise level	50 dB		50 dB
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)
Net weight	4.1 Kg		3.5 Kg
Dimension (LxWxH)	26.8 x 13.5 x 20.4 cm		27.2 x 12.1 x 16.5 cm

Oil Free Vacuum Pump



Features

- **No air pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Prote™ overflow protection**
Rocker series pumps are equipped with Prote™ overflow protection which can prevent a large amount of liquid from being sucked into the pump.
- **Moisture trap with filter cartridge**
Rocker series pumps are equipped with filter cartridge in air inlet to filter particle and moisture to prolong the life of pump.
- **Vacuum regulator**
Rocker series pumps are equipped with vacuum regulator to adjust vacuum.
- **Thermal protection device**
Every motor of Rocker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **International certification**
CE certification
CSA certification
IP 30 protection
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	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	100W	80W	100W	80W
Max. current	1.0A	0.4A	1.0A	0.4A
Max. vacuum	105 mbar / 91 kPa / 26.8 inHg		30 mbar / 98 kPa / 28.9 inHg	
Max. flow rate	37 L/min	34 L/min	23 L/min	20 L/min
Vacuum regulator	Yes		Yes	
Overflow protection/ Filter cartridge	Yes		Yes	
Motor rotation speed	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Horse power	1/6 HP		1/6 HP	
Noise level	52 dB		52 dB	
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)	
Net weight	5.2 Kg		5.2 Kg	
Dimension (LxWxH)	31 x 13.5 x 20.4 cm		31 x 13.5 x 20.4 cm	

Oil Free Vacuum Pump



Features

- **No air pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Vacuum regulator**
Rocker series pumps are equipped with vacuum regulator to adjust vacuum.
- **Thermal protection device**
Every motor of Rocker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **Moisture trap with filter cartridge**
Rocker 801 pump is equipped with filter cartridge in air inlet to filter particle and moisture to prolong the life of pump.
- **International certification**
CE certification
- **Two-Year Warranty**

Applications

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

Ordering Information

167800-11(22)
Rocker 800, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)
167801-11(22)
Rocker 801, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Rocker 800		Rocker 801	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	220W	200W	220W	200W
Max. current	2A	0.9A	2A	0.9A
Max. vacuum	120 mbar / 90 kPa / 26.4 inHg		120 mbar / 90 kPa / 26.4 inHg	
Max. flow rate	100 L/min	80 L/min	80 L/min	68 L/min
Vacuum regulator	Yes		Yes	
Filter cartridge	-		Yes	
Motor rotation speed	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Horse power	1/3 HP		1/3 HP	
Noise level	68 dB		68 dB	
Hose barb	3/8 inch (10 mm)		5/16 inch (8 mm)	
Net weight	7.6 Kg		7.9 Kg	
Dimension (LxWxH)	34.5 x 17.5 x 20 cm		34.5 x 17.5 x 20 cm	

Oil Free Vacuum Pump



Features

- **No air pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Vacuum regulator**
Rocker series pumps are equipped with vacuum regulator to adjust vacuum.
- **Thermal protection device**
Every motor of Rocker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **Moisture trap with filter cartridge**
Rocker 811 pump is equipped with filter cartridge in air inlet to filter particle and moisture to prolong the life of pump.
- **International certification**
CE certification
- **Two-Year Warranty**

Applications

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

Ordering Information

167810-11(22)
Rocker 810, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)
167811-11(22)
Rocker 811, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Rocker 810		Rocker 811	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	220W	200W	220W	200W
Max. current	2A	0.9A	2A	0.9A
Max. vacuum	30 mbar / 98 kPa / 28.9 inHg		30 mbar / 98 kPa / 28.9 inHg	
Max. flow rate	60 L/min	50 L/min	48 L/min	40 L/min
Vacuum regulator	Yes		Yes	
Filter cartridge	-		Yes	
Motor rotation speed	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Horse power	1/3 HP		1/3 HP	
Noise level	68 dB		68 dB	
Hose barb	3/8 inch (10 mm)		5/16 inch (8 mm)	
Net weight	7.6 Kg		7.9 Kg	
Dimension (LxWxH)	34.5 x 17.5 x 20 cm		34.5 x 17.5 x 20 cm	

Oil Free Vacuum Pump / Compressor

Features

- **Vacuum/Pressure in one 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.
- **No air pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Prote™ overflow protection**
Rocker 430 is equipped with Prote™ overflow protection which can prevent a large amount of liquid from being sucked into the pump.
- **Moisture trap with filter cartridge**
Rocker 430 is equipped with filter cartridge in air inlet and outlet to filter particle and moisture to prolong the life of pump.
- **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	
Voltage / Freq.	110V/60Hz	220V/50Hz
Max. power	147W	125W
Max. current	1.5A	0.6A
Max. vacuum	170 mbar / 84 kPa / 24.8 inHg	
Max. pressure	80 psi	
Max. flow rate	34 L/min	28 L/min
Vacuum/Pressure regulator	Yes	
Vacuum/Pressure gauge	Yes	
Overflow protection/Filter cartridge	Yes	
Motor rotation speed	1750 RPM	1450 RPM
Horse power	1/6 HP	
Noise level	52 dB	
Hose barb	5/16 inch (8 mm)	
Net weight	5.5 Kg	
Dimension (LxWxH)	24.7 x 23.5 x 20.4 cm	

PTFE Coated Chemical Resistant Vacuum Pump

Features

- **Good chemical resistance**
The PTFE-coated diaphragm and chamber as well as SS316 valve can offer good resistance to a wide range of corrosive gases.
- **No air pollution, maintenance free**
Rocker 300C and Lafil 300C vacuum pumps are driven by diaphragm, without the need of lubricant, regular oil changes and maintenance with no oil pollution.
- **Thermal protection device**
The motor of Rocker 300C and Lafil 300C vacuum pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **Compact and safe operation**
Lafil 300C is a unique filtration instrument by combining vacuum source with filtration ware. Its compact design saves much bench space than the traditional ones. With a fence-like platform design, it can prevent user's negligence from tipping over the waste bottle.

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

- **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)
197330-11(22)
Lafil 300C, PTFE Coated Chemical Resistant Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)



Specification

Model	Rocker 300C		Lafil 300C	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	65W	60W	65W	60W
Max. current	0.7A	0.3A	0.7A	0.3A
Max. vacuum	170 mbar / 84 kPa / 24.8 inHg		170 mbar / 84 kPa / 24.8 inHg	
Max. flow rate	23 L/min	20 L/min	23 L/min	20 L/min
Vacuum regulator	Yes		Yes	
Overflow protection	-		-	
Motor rotation speed	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Horse power	1/8 HP		1/8 HP	
Noise level	50 dB		50 dB	
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)	
Net weight	4.1 Kg		5.9 Kg	
Dimension (LxWxH)	28.5 x 13.5 x 20.4 cm		35 x 24.3 x 29 cm	

Oil Free Vacuum Pump



Features

- ❖ **Compact and safe operation**
Lafil 300 and Lafil 400 are unique filtration instruments by combining vacuum source with filtration ware. Its compact design saves much bench space than the traditional ones. With a fence-like platform design, it can prevent user's negligence from tipping over the waste bottle.
- ❖ **No air pollution, maintenance free**
Lafil 300 and Lafil 400 pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- ❖ **Thermal protection device**
Every motor of Lafil series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- ❖ **International certification**
CE certification
IP 30 protection
- ❖ **Two-Year Warranty**

Applications

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

Ordering Information

197300-11(22)
Lafil 300, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)
197400-11(22)
Lafil 400, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)

Lafil 300



Lafil 400



Specification

Model	Lafil 300		Lafil 400	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	65W	60W	100W	80W
Max. current	0.7A	0.3A	1.0A	0.4A
Max. vacuum	105 mbar / 91 kPa / 26.8 inHg		30 mbar / 98 kPa / 28.9 inHg	
Max. flow rate	23 L/min	20 L/min	23 L/min	20 L/min
Vacuum regulator	Yes		Yes	
Overflow protection	-		-	
Motor rotation speed	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Horse power	1/8 HP		1/6 HP	
Noise level	50 dB		52 dB	
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)	
Net weight	5.9 Kg		7.0 Kg	
Dimension (LxWxH)	35 x 24.3 x 29 cm		35 x 24.3 x 29 cm	

Diaphragm Liquid Pump

Features

- ❖ **Save time**
Alligator 200 built in a liquid pump that transfers the filtered liquid directly to waste. It saves time by simplifying filtration process.
- ❖ **Save 40% bench space**
Alligator 200 does not need any waste bottle that is necessary for traditional air pump. Saving working space by getting rid of tubing and waste bottle.
- ❖ **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).
- ❖ **No air pollution, high efficiency**
Alligator 200 is driven by diaphragm with no oil pollution. Built-in 60W brushless DC motor offers a stable flow rate and prolongs the life of pump.
- ❖ **International certification**
CE certification
IP 64 protection
RoHS certification
- ❖ **One-Year Warranty**

Applications

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

Ordering Information

181200-01(02)
Alligator 200, Diaphragm Liquid Pump
with AC100-240V adaptor, US plug
(EU plug)

Alligator 200

Patent: M556786



Specification

Model	Alligator 200
Input voltage	DC 24V, 2.5A
Max. vacuum	313 mbar / 70 kPa / 20.7 inHg
Max. liquid flow rate	4.5 L/min
Motor	60W Brushless DC Motor
Noise level	60 dB
Hose barb	5/16 inch (8 mm)
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS
Safety	Built-in thermal protection device
Net weight	2.4 Kg
Dimension (LxWxH)	23.5 x 19 x 20.2 cm

Chemical Resistant Vacuum Pump



Features

- **High chemical resistant**
All wetted parts of Chemker series pump are made of PTFE material which can resist most of corrosive gases.
- **No air pollution, maintenance free**
Chemker series pumps are driven by diaphragm, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Quiet and low vibration**
Driven direct by motor with no additional belt-driven transmission; the quality of vibration-proof assembly makes Chemker series pumps run at the lowest noise level among all other equivalent pumps.
- **Thermal protection device**
Every motor of Chemker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **International certification**
CE certification
- **One-Year Warranty**

Applications

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

Ordering Information

169300-11(22)
Chemker 300, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)

169400-11(22)
Chemker 400, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)



Specification				
Model	Chemker 300		Chemker 400	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	70W	60W	90W	90W
Max. current	0.8A	0.32A	1.1A	0.5A
Max. vacuum	105 mbar / 91 kPa / 26.8 inHg		105 mbar / 91 kPa / 26.8 inHg	
Max. flow rate	20 L/min	18 L/min	38 L/min	33 L/min
Motor rotation speed	1700 RPM	1450 RPM	1700 RPM	1450 RPM
Horse power	1/8 HP		1/6 HP	
Noise level	50 dB		52 dB	
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)	
Net weight	5.0 Kg		7.0 Kg	
Dimension (LxWxH)	20.3 x 11.2 x 20.9 cm		26.7 x 11.2 x 18.1 cm	

Chemical Resistant Vacuum Pump



Features

- **High chemical resistant**
All wetted parts of Chemker series pump are made of PTFE material which can resist most of corrosive gases.
- **No air pollution, maintenance free**
Chemker series pumps are driven by diaphragm, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Quiet and low vibration**
Driven direct by motor with no additional belt-driven transmission; the quality of vibration-proof assembly makes Chemker series pumps run at the lowest noise level among all other equivalent pumps.
- **Thermal protection device**
Every motor of Chemker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **International certification**
CE certification
- **One-Year Warranty**

Applications

- Solvent purification
- Gel dryer
- Rotary evaporator
- Vacuum filtration

Ordering Information

169410-11(22)
Chemker 410, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)

169411-11(22)
Chemker 411, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)



* Glass Moisture Trap / Vacuum Regulator doesn't include filter cartridge

Specification

Model	Chemker 410		Chemker 411	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	90W	90W	90W	90W
Max. current	1.2A	0.5A	1.2A	0.5A
Max. vacuum	10 mbar / 100 kPa / 29.6 inHg		10 mbar / 100 kPa / 29.6 inHg	
Max. flow rate	20 L/min	18 L/min	20 L/min	18 L/min
Motor rotation speed	1700 RPM	1450 RPM	1700 RPM	1450 RPM
Horse power	1/6 HP		1/6 HP	
Noise level	52 dB		52 dB	
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)	
Glass vapor trap / Vacuum regulator	—		Yes	
Net weight	7.0 Kg		7.4 Kg	
Dimension (LxWxH)	26.2 x 14.8 x 18.2 cm		26.2 x 23.6 x 19.3 cm	

Oil Free Compressor



Features

- **No pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Quiet and low vibration**
Driven direct by motor with no additional belt-driven transmission; the quality of vibration-proof assembly makes Rokcer series pumps run at the lowest noise level among all other equivalent pumps.
- **Thermal protection device**
Every motor of Rocker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **Air outlet filter device**
Every Rocker series compressor is equipped with filter cartridge in air outlet to filter particle, moisture and 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)



Specification

Model	Rocker 320		Rocker 420	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	90W	85W	147W	125W
Max. current	0.9A	0.4A	1.5A	0.6A
Max. pressure (w/o moisture trap)	80 psi		80 psi	
Max. pressure (w. moisture trap)	80 psi		80 psi	
Max. flow rate	14 L/min	12 L/min	27 L/min	25 L/min
Moisture trap	Yes		Yes	
Motor rotation speed	1700 RPM	1400 RPM	1700 RPM	1400 RPM
Horse power	1/8 HP		1/6 HP	
Noise level	50 dB		52 dB	
Hose barb	5/16 inch (8 mm)		5/16 inch (8 mm)	
Net weight	4.1 Kg		5.2 Kg	
Dimension (LxWxH)	27.2 x 13.6 x 16.5 cm		29.8 x 14.3 x 17.2 cm	

Air Supply System



Features

- **No pollution, maintenance free**
Rocker series pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Quiet and low vibration**
Driven direct by motor with no additional belt-driven transmission; the quality of vibration-proof assembly makes Rokcer series pumps run at the lowest noise level among all other equivalent pumps.
- **Thermal protection device**
Every motor of Rocker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **Air outlet filter device**
Every Rocker series compressor is equipped with filter cartridge in air outlet to filter particle, moisture and 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)



* The capacity of air tank, made of SS304 stainless steel, is 2.5 liters.

Specification

Model	Rocker 440						
Voltage / Freq.	110V/60Hz			220V/50Hz			
Max. power	147W			125W			
Max. current	1.5A			0.6A			
Pressure range	40 - 60 psi			40 - 60 psi			
Motor rotation speed	1700 RPM			1400 RPM			
Max. flow rate (without air tank)	27 L/min			25 L/min			
Max. flow rate with air tank	20 psi	0-15 sec. 40 L/min	15-30 sec. Decreasing	after 30 sec. 27 L/min	0-15 sec. 40 L/min	15-30 sec. Decreasing	after 30 sec. 25 L/min
	40 psi	0-10 sec. 52 L/min	10-25 sec. Decreasing	after 25 sec. 27 L/min	0-10 sec. 50 L/min	10-25 sec. Decreasing	after 25 sec. 25 L/min
	60 psi	0-8 sec. 65 L/min	8-22 sec. Decreasing	after 22 sec. 27 L/min	0-8 sec. 60 L/min	8-22 sec. Decreasing	after 22 sec. 25 L/min
Moisture trap	Yes			Yes			
Horse power	1/6 HP			1/6 HP			
Noise level	52 dB			52 dB			
Hose barb	5/16 inch (8 mm)			5/16 inch (8 mm)			
Net weight	8.4 Kg			8.4 Kg			
Dimension (LxWxH)	29.3 x 31.1 x 25.1 cm			29.3 x 31.1 x 25.1 cm			

PS: The pressure can be changed to 60-80 psi

Rotary Vane Vacuum Pump

Features

- **High vacuum, high flow rate**
Tanker series pumps are driven by rotary vane, with high flow rate, vacuum can reach over 10⁻¹ torr. Suitable for the laboratory that needs high / medium volume and vacuum for experiment.
- **Quiet and low vibration**
Tanker series pumps feature low noise level, low vibration and long product life.
- **Thermal protection device**
Every motor of Tanker series pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **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)
- 187100-30** Exhaust Filter
- 187100-25** Oil mist outlet
- 187100-05** Lubricant (500ml / PK)



Exhaust filter (optional)
Exhaust filter with stainless steel housing can be used to prevent oil mist from being sprayed into the room and keep laboratory clean.



Oil mist outlet (optional)
It is used to exhaust the oil mist out of a room by connecting an optional hose barb (Thread 1/8 PT) and a proper tube.

Specification

Model	Tanker 130		Tanker 150		Tanker 215		Tanker 230	
Voltage / Freq.	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	250W	250W	375W	375W	250W	250W	375W	375W
Max. current	4.2A	2.5A	6.5A	3A	4.2A	2.5A	6.5A	3A
Max. vacuum	1 x 10 ⁻¹ torr		1 x 10 ⁻¹ torr		5 x 10 ⁻² torr		5 x 10 ⁻² torr	
Max. flow rate	85 L/min	70 L/min	142 L/min	127 L/min	42 L/min	36 L/min	85 L/min	70 L/min
Motor rotation speed	1725 RPM	1440 RPM	1725 RPM	1440 RPM	1725 RPM	1440 RPM	1725 RPM	1440 RPM
Horse power	1/3 HP		1/2 HP		1/3 HP		1/2 HP	
Hose barb	3/8 inch (10 mm)		3/8 inch (10 mm)		3/8 inch (10 mm)		3/8 inch (10 mm)	
Noise level	52 dB		52 dB		52 dB		52 dB	
Net weight	9.6 Kg		13 Kg		11.4 Kg		14 Kg	
Dimension (LxMxH)	31.5 x 12 x 36 cm		33.5 x 12.5 x 37.5 cm		31.5 x 12 x 36 cm		33.5 x 12.5 x 37.5 cm	

Pump Accessories

