

LABORATORY PUMP

Oil Free Vacuum Pump

Rocker 300 / 300DC

Rocker 400 / 410

Rocker 800 / 801 / 810 / 811

Lafil 300 / 400

PTFE Coated Chemical Resistant Vacuum Pump

Lafil 300C / Rocker 300C

Rocker 400C / 410C

Chemical Resistant Vacuum Pump

Chemker 300 / 400

Chemker 410 / 411

Chemker 600 / 610 / 611

Oil Free Compressor

Rocker 320 / 420

Air Supply System

Rocker 440

Oil Free Vacuum Pump / Compressor

Rocker 430

Rotary Vane Vacuum Pump

Tanker 130 / 150 / 215 / 230

Diaphragm Liquid Pump

Alligator 200

Accessories

Oil Free Vacuum Pump Guide

Oil Free Vacuum Pump



Rocker 300

Max. vacuum : 105 mbar
Max. flow rate : 23 (20) L/min



Rocker 800

Max. vacuum : 120 mbar
Max. flow rate : 100 (80) L/min



Rocker 300DC

Max. vacuum : 145 mbar
Max. flow rate : 25 L/min



Rocker 801

Max. vacuum : 120 mbar
Max. flow rate : 80 (68) L/min



Rocker 400

Max. vacuum : 105 mbar
Max. flow rate : 37 (34) L/min



Rocker 810

Max. vacuum : 30 mbar
Max. flow rate : 60 (50) L/min



Rocker 410

Max. vacuum : 30 mbar
Max. flow rate : 23 (20) L/min



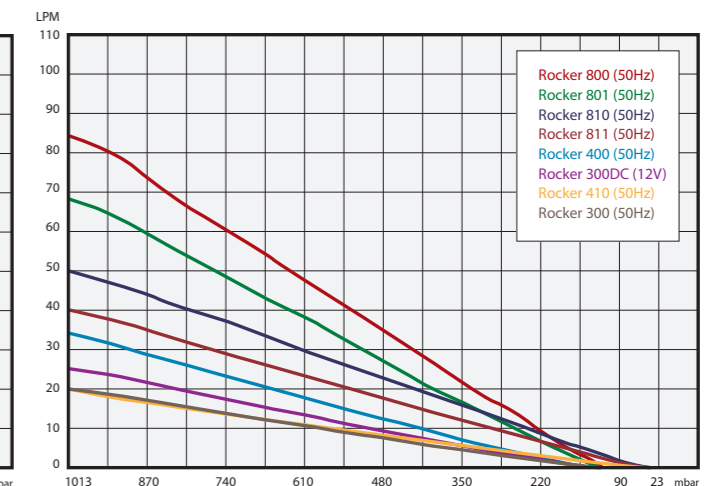
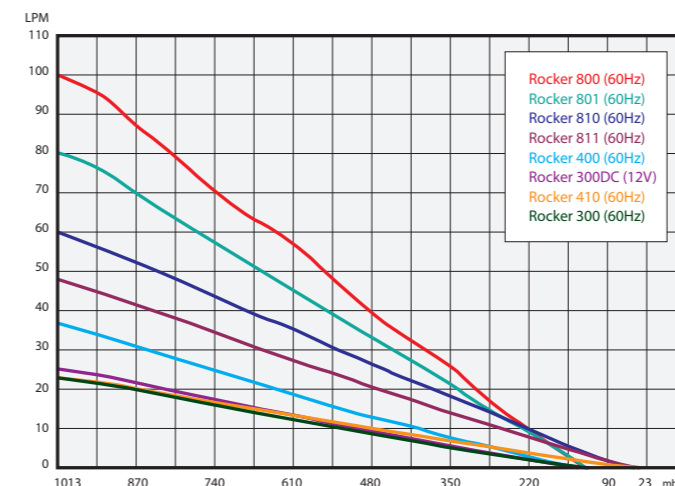
Rocker 811

Max. vacuum : 30 mbar
Max. flow rate : 48 (40) L/min

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

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

Pumping Speed Graph



PTFE Coated Chemical Resistant Vacuum Pump



Rocker 300C
Max. vacuum : 145 mbar
Max. flow rate : 23 (20) L/min



Rocker 400C
Max. vacuum : 105 mbar
Max. flow rate : 34 (31) L/min



Rocker 410C
Max. vacuum : 25 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 600
Max. vacuum : 65 mbar
Max. flow rate : 65 (60) L/min



Chemker 400
Max. vacuum : 105 mbar
Max. flow rate : 38 (33) L/min



Chemker 610
Max. vacuum : 7 mbar
Max. flow rate : 34 (30) L/min



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



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

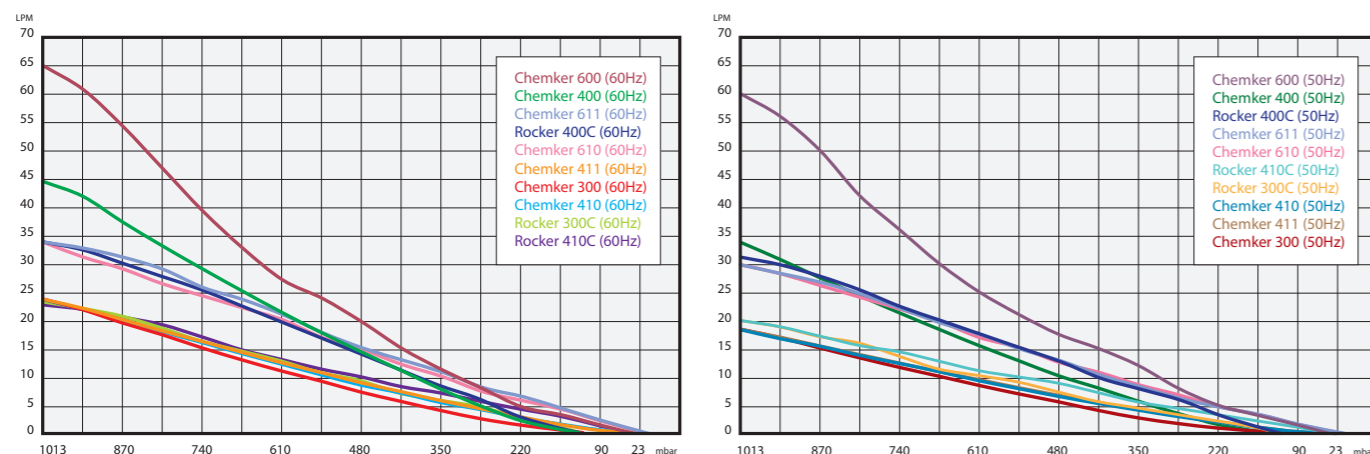


Chemker 411
Max. vacuum : 10 mbar
Max. flow rate : 20 (18) L/min

* 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

- ▶ **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 at the 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 (Rocker 300)
IP 30 protection (Rocker 300)
RoHS certification
- ▶ **Two-Year Warranty**

Applications

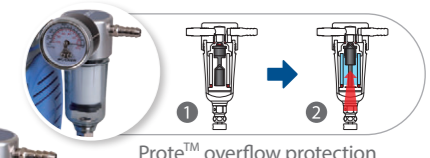
- ▶ Vacuum filtration
- ▶ Suspended solid test
- ▶ Microbiological test
- ▶ Air sampling

Ordering Information

167300-11(22)
Rocker 300, Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)

167330-00
Rocker 300DC, DC Power Vacuum Pump (DC12 V)

Patent : M491731



Prote™ overflow protection

Rocker 300



Rocker 300DC

Specification

Model	Rocker 300	Rocker 300DC
Voltage / Freq.	110V/60Hz	220V/50Hz
Max. power	65W	60W
Max. current	0.7A	0.3A
Max. vacuum	105 mbar	145 mbar
Max. flow rate	23 L/min	20 L/min
Motor rotation speed	1750 RPM	1450 RPM
Horse power	1/8 HP	1/8 HP
Noise level	50 dB	50 dB
Hose barb	ID8	ID8
Vacuum regulator	Yes	Yes
Overflow protection/ Filter cartridge	Yes	Yes
Safety	Thermal Protection	Thermal Protection
Net weight	4.1 Kg	3.5 Kg
Dimension (LxWxH)	26.8 x 13.5 x 20.4 cm	27.2 x 12.1x 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 at the 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)



Rocker 400



Rocker 410

Specification

Model	Rocker 400		Rocker 410	
	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		30 mbar	
Max. flow rate	37 L/min	34 L/min	23 L/min	20 L/min
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	ID8		ID8	
Vacuum regulator	Yes		Yes	
Overflow protection/ Filter cartridge	Yes		Yes	
Safety	Thermal Protection		Thermal Protection	
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 at the air inlet to filter particle and moisture to prolong the life of pump.
- ▶ **International certification**
CE certification
RoHS 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)



Rocker 800



Rocker 801

Specification

Model	Rocker 800		Rocker 801	
	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	220W	200W	220W	200W
Max. current	2A	1.2A	2A	1.2A
Max. vacuum	120 mbar		120 mbar	
Max. flow rate	100 L/min	80 L/min	80 L/min	68 L/min
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	ID10		ID8	
Vacuum regulator	Yes		Yes	
Filter cartridge	-		Yes	
Safety	Thermal Protection		Thermal Protection	
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	

* Moisture Trap / Vacuum Regulator doesn't include overflow protection.

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 at the air inlet to filter particle and moisture to prolong the life of pump.
- ▶ **International certification**
CE certification
RoHS certification
- ▶ **Two-Year Warranty**



Rocker 810



Rocker 811

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	1.2A	2A	1.2A
Max. vacuum	30 mbar		30 mbar	
Max. flow rate	60 L/min	50 L/min	48 L/min	40 L/min
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	ID10		ID8	
Vacuum regulator	Yes		Yes	
Filter cartridge	-		Yes	
Safety	Thermal Protection		Thermal Protection	
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	

* Moisture Trap / Vacuum Regulator doesn't include overflow protection.

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)

Oil Free Vacuum Pump



Features

- ▶ **Compact and safe operation**
Lafil 300 and Lafil 400 are unique filtration units by combining vacuum source with optional 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
- ▶ **Two-Year Warranty**



Lafil 300 - LF 30

Lafil 300



Lafil 400 - SF 10

Lafil 400

Applications

- ▶ Vacuum filtration
- ▶ Microbiological test
- ▶ Suspended solid test

Ordering Information

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

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

197010-30
LF 30, PES Filtration Set

197010-32
SF 10, Stainless Steel Filtration Set

197010-33
SF 30, Stainless Steel Filtration Set

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		30 mbar	
Max. flow rate	23 L/min	20 L/min	23 L/min	20 L/min
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	ID8		ID8	
Vacuum regulator	Yes		Yes	
Safety	Thermal Protection		Thermal Protection	
Net weight	5.9 Kg		7.0 Kg	
Dimension (LxWxH)	33.5 x 24.5 x 30 cm		33.5 x 24.5 x 30 cm	

PTFE Coated Chemical Resistant Vacuum Pump

Features

- ▶ **Good chemical resistance**
The PTFE-coated diaphragm and chamber can offer good resistance to a wide range of chemical gases except strong acid and alkali.
- ▶ **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.
- ▶ **Quiet and low vibration**
The mechanism technique and quality vibration-proof assemblies make pumps run at the lowest noise with stable.
- ▶ **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 unit by combining vacuum source with optional 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.



Rocker 300C



Lafil 300C

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	145 mbar		145 mbar	
Max. flow rate	23 L/min	20 L/min	23 L/min	20 L/min
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	ID8		ID8	
Vacuum regulator	Yes		Yes	
Moisture Trap	Yes		-	
Safety	Thermal Protection		Thermal Protection	
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	

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

PTFE Coated Chemical Resistant Vacuum Pump

Features

- ▶ **Good chemical resistance**
The PTFE-coated diaphragm and chamber can offer good resistance to a wide range of chemical gases except strong acid and alkali.
- ▶ **No air pollution, maintenance free**
Rocker 400C / 410C vacuum pumps are driven by diaphragm, without the need of lubricant, regular oil changes and maintenance ; with no oil pollution.
- ▶ **Quiet and low vibration**
The mechanism technique and quality vibration-proof assemblies make pumps run at the lowest noise with stable.
- ▶ **Thermal protection device**
The motor of Rocker 400C / 410C 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.
- ▶ **International certification**
CE certification
IP 30 protection
RoHS certification
- ▶ **One-Year Warranty**



Rocker 400C



Rocker 410C

Specification

Model	Rocker 400C		Rocker 410C	
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		25 mbar	
Max. flow rate	34 L/min	31 L/min	23 L/min	20 L/min
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	ID8		ID8	
Moisture Trap / Vacuum regulator	Yes		Yes	
Safety	Thermal Protection		Thermal Protection	
Net weight	5.7 Kg		5.6 Kg	
Dimension (LxWxH)	31 x 13.5 x 20.4 cm		31 x 13.5 x 20.4 cm	

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)

Chemical Resistant Vacuum Pump



Features

- ▶ **High chemical resistance**
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 directly 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**



Chemker 300



Chemker 400

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	
	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		105 mbar	
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	ID8		ID8	
Moisture Trap / Vacuum regulator	-		-	
Safety	Thermal Protection		Thermal Protection	
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 resistance**
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 directly 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**



Chemker 410



Chemker 411

Applications

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

Ordering Information

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

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

Specification

Model	Chemker 410		Chemker 411	
	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		10 mbar	
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	ID8		ID8	
Moisture Trap / Vacuum regulator	-		Yes	
Safety	Thermal Protection		Thermal Protection	
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	

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

Chemical Resistant Vacuum Pump



Features

- ▶ **High chemical resistance**
All wetted parts of Chemker series pump are made of PTFE material which can resist 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.
- ▶ **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 directly by motor and vibration-proof assembly make Chemker series pumps run at the lowest noise.
- ▶ **Thermal protection device**
The motor with thermal protection will shut off when overheated and resume working when cools down.
- ▶ **International certification**
CE certification
- ▶ **One-Year Warranty**



Chemker 600

Specification

Model	Chemker 600	
Voltage / Freq.	110V/60Hz	220V/50Hz
Max. power	220W	200W
Max. current	2A	1.2A
Max. vacuum	65 mbar	
Max. flow rate	65 L/min	60 L/min
Motor rotation speed	1750 RPM	1450 RPM
Horse power	1/3 HP	
Noise level	60 dB	
Hose barb	ID10	
Moisture trap / Vacuum regulator	-	
Safety	Thermal Protection	
Net weight	13.2 Kg	
Dimension (LxWxH)	35 x 15.4 x 22.5 cm	

Applications

- ▶ Rotary evaporator
- ▶ Concentrator
- ▶ Vacuum drying / oven / defoaming
- ▶ Solvent purification
- ▶ Vacuum filtration

Ordering Information

169600-11(22)
Chemker 600,
Chemical Resistant Vacuum Pump
AC110V, 60Hz (AC220V, 50Hz)

Chemical Resistant Vacuum Pump



Features

- ▶ **High chemical resistance**
All wetted parts of Chemker series pump are made of PTFE material which can resist 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 regulator / Moisture trap**
Chemker 611 equipped with vacuum regulator and moisture trap used to adjust vacuum level and collect condensation to prolong the life of pump.
- ▶ **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 directly by motor and vibration-proof assembly make Chemker series pumps run at the lowest noise.
- ▶ **Thermal protection device**
The motor with thermal protection will shut off when overheated and resume working when cools down.
- ▶ **International certification**
CE certification
- ▶ **One-Year Warranty**



Chemker 610



Chemker 611

Specification

Model	Chemker 610		Chemker 611	
	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Max. power	220W	200W	220W	200W
Max. current	2A	1.2A	2A	1.2A
Max. vacuum	7 mbar		7 mbar	
Max. flow rate	34 L/min	30 L/min	34 L/min	30 L/min
Motor rotation speed	1750 RPM	1450 RPM	1750 RPM	1450 RPM
Horse power	1/3 HP		1/3 HP	
Noise level	60 dB		60 dB	
Hose barb	ID10		ID10	
Moisture trap / Vacuum regulator	-		Yes	
Safety	Thermal Protection		Thermal Protection	
Net weight	13.3 Kg		13.7 Kg	
Dimension (LxWxH)	35 x 16.2 x 22.5 cm		35 x 20.3 x 23.5 cm	

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

Applications

- ▶ Rotary evaporator
- ▶ Concentrator
- ▶ 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)

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 directly 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 at the air outlet to filter particle, moisture and supply clean air.
- ▶ **International certification**
CE certification
CSA certification
IP 30 protection
RoHS certification
- ▶ **Two-Year Warranty**



Rocker 320



Rocker 420

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)	100 psi		100 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 / Pressure regulator	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	ID8		ID8	
Safety	Thermal Protection		Thermal Protection	
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	

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)

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 directly 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 at the air outlet to filter particle, moisture and supply clean air.
- ▶ **International certification**
CE certification
CSA certification
IP 30 protection
RoHS certification
- ▶ **Two-Year Warranty**



Rocker 440

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

Applications

- ▶ Fermenter
- ▶ Bioreactor
- ▶ Gas Chromatograph

Ordering Information

167440-11(22)
Rocker 440, Air Supply System
AC110V, 60Hz (AC220V, 50Hz)

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 27 L/min	after 30 sec. 27 L/min	0~15 sec. 40 L/min	15~30 sec. Decreasing 25 L/min	after 30 sec. 25 L/min
	40 psi	0~10 sec. 52 L/min	10~25 sec. Decreasing 27 L/min	after 25 sec. 27 L/min	0~10 sec. 50 L/min	10~25 sec. Decreasing 25 L/min	after 25 sec. 25 L/min
	60 psi	0~8 sec. 65 L/min	8~22 sec. Decreasing 27 L/min	after 22 sec. 27 L/min	0~8 sec. 60 L/min	8~22 sec. Decreasing 25 L/min	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	ID8			ID8			
Safety	Thermal Protection			Thermal Protection			
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

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.
- ▶ **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 430 is equipped with filter cartridge at the 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	
Max. pressure	80 psi	
Max. flow rate	34 L/min	28 L/min
Motor rotation speed	1750 RPM	1450 RPM
Horse power	1/6 HP	
Noise level	52 dB	
Hose barb	ID8	
Vacuum / Pressure regulator	Yes	
Vacuum / Pressure gauge	Yes	
Overflow protection/ Filter cartridge	Yes	
Safety	Thermal Protection	
Net weight	5.5 Kg	
Dimension (LxWxH)	24.7 x 23.5 x 20.4 cm	

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 flow rate and vacuum capacity 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)
187100-05 Lubricant (500ml / PK)
187100-30 Exhaust Filter
187100-25 Oil Mist Outlet



187100-30 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.

187100-25 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	
Noise level	52 dB		52 dB		52 dB		52 dB	
Hose barb	ID10		ID10		ID10		ID10	
Safety	Thermal Protection		Thermal Protection		Thermal Protection		Thermal Protection	
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	

Diaphragm Liquid Pump



Features

- Save 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 does not need to connect any additional waste bottle necessary for traditional filtration pump. It saves 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**



Specification

Model	Alligator 200
Power	DC24V, 1.8A
Max. vacuum	313 mbar
Max. liquid flow rate	4.5 L/min
Motor	60W Brushless DC Motor
Noise level	60 dB
Hose barb	ID8
Material contact with filtrate	SS316, FKM, Silicone, PP, PPS
Safety	Thermal protection
Net weight	2.4 Kg
Dimension (LxWxH)	23.5 x 19 x 20.2 cm

Applications

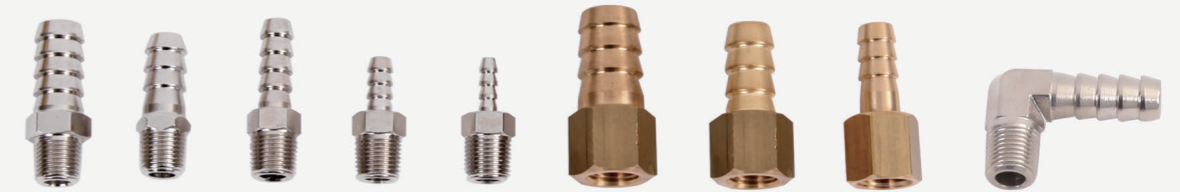
- Microbiological test
- Suspended solid test
- General filtration without collecting filtrate

Ordering Information

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

Pump Accessories

Hose Barb



Cat. No.:	167300-20	167300-21	167300-63	167300-23	167300-24	187100-32	187100-31	187100-34	167300-25
ID:	3/8 inch	5/16 inch	1/4 inch	3/16 inch	1/8 inch	1/2 inch	3/8 inch	1/4 inch	5/16 inch
Thread:	1/8 PT	1/8 PT	1/8 PT	1/8 PT	1/8 PT	1/4 SAE	1/4 SAE	1/4 SAE	1/8 PT

Moisture Trap / Vacuum Regulator / Pressure Regulator



167301-06 For Rocker 300/400/ 410/430	167801-06 For Rocker 801/811	169411-06 For Chemker 410/411	169611-06 For Chemker 610/611	189300-06 For Rocker 300C/400C/410C	167320-06 For Rocker 320/420	167440-06 For Rocker 440
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Filter Cartridge



167301-07 For Rocker 300/400/410/430 (with Prote™ overflow protection)	167801-07 For Rocker 801/811 (without Prote™ overflow protection)
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Chemical Resistant Hose Barb



169300-21 5/16 inch ID8 1/4 NPS	169300-20 3/8 inch ID10 1/4 NPS
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Air Outlet (Copper Muffler)



167300-42 For Rocker 300/400/410/430	167600-42 For Rocker 800/801/810/811
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Check Valve



187100-33
For Tanker
130/150/215/230
ID10
1/4 SAE

Silicone Tube



167200-38 Ø 6 x 12 mm Length: 1 m	199100-68 Ø 4.2 x 8 mm Length: 2 m	180300-68 Ø 8 x 14 mm Length: 2 m
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Universal Foot Switch



167200-41 Momentary action	167200-41-1 Maintained action
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