

Oil Free Vacuum Pump Guide

Oil Free Vacuum Pump



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



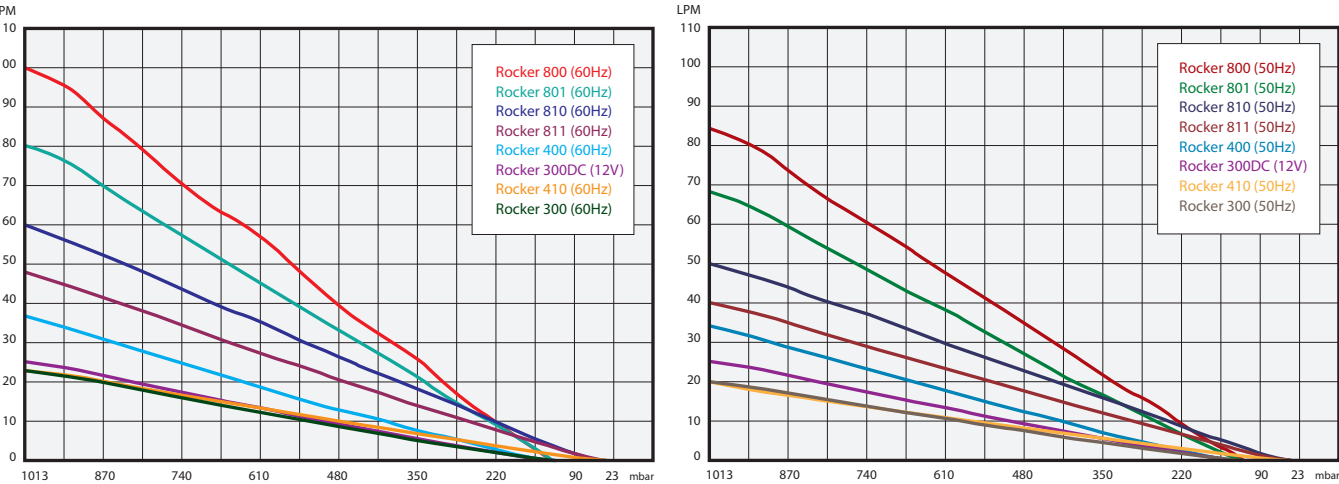
Rocker 410
Max. vacuum : 30 mbar
Max. flow rate : 23 (20) L/min



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



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



Specification

Model	Rocker 300		Rocker 300DC
Voltage / Freq.	110V/60Hz	220V/50Hz	DC12V
Max. power	65W	60W	35W
Max. current	0.7A	0.3A	3A
Max. vacuum	105 mbar		145 mbar
Max. flow rate	23 L/min	20 L/min	25 L/min
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	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

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Features

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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)

Patent : M491731



Prote™ overflow protection

Rocker 400



Rocker 410

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		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

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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	
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	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

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	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.

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	