

# 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



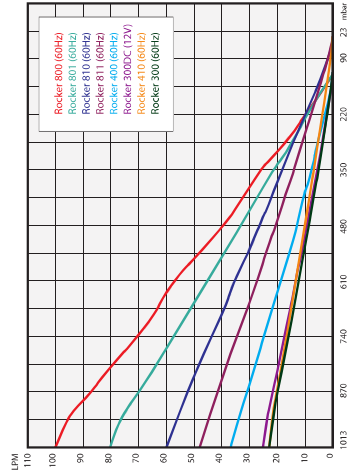
**Rocker 410**  
Max. vacuum : 30 mbar  
Max. flow rate : 23 (20) L/min



**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



# 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

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 400**  
Max. vacuum : 10 mbar  
Max. flow rate : 38 (33) L/min



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



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



**Chemker 600**  
Max. vacuum : 65 mbar  
Max. flow rate : 65 (60) L/min



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



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

# Oil Free Vacuum Pump



Product: 1A191731



**Rocker 300**

- ▶ **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**  
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 (Rocker 300)  
RoHS certification
- ▶ **Two-Year Warranty**



**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 12.1 x 16.5 cm

## Applications

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

## Ordering Information

**167300-11(22)**

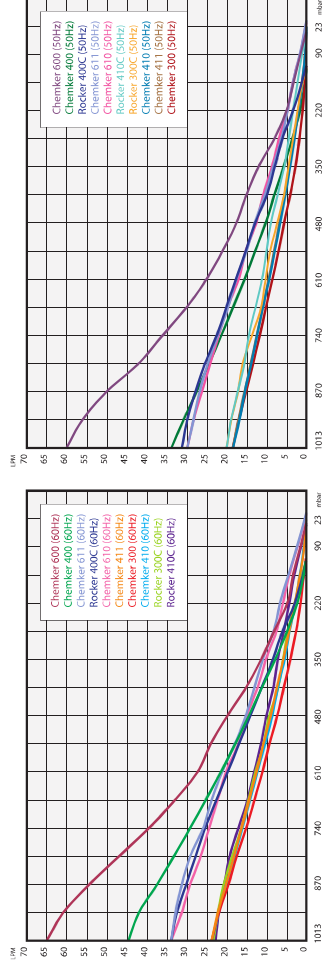
Rocker 300, Vacuum Pump  
AC1 10V, 60Hz (AC220V, 50Hz)

**167330-00**

Rocker 300DC, DC Power Vacuum Pump ( DC12V )

\*\* The mbar value is the gas particles left in the system, the less particles left in, the higher vacuum it is.  
\* The value in ( ) is the max. flow rate at 50Hz.

## 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  
IP 30 protection  
RoHS certification
- ▶ **Two-Year Warranty**

## Specification

Model	Rocker 400	Rocker 410
Voltage / Freq.	110V/60Hz	110V/60Hz
Max. power	100W	100W
Max. current	1.0A	1.0A
Max. vacuum	105 mbar	30 mbar
Max. flow rate	37 L/min	23 L/min
Motor rotation speed	1750 RPM	1750 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

## Ordering Information

- 167400-11(22)**  
Rocker 400, Vacuum Pump  
AC110V, 60Hz (AC220V, 50Hz)
- 167410-11(22)**  
Rocker 410, Vacuum Pump  
AC110V, 60Hz (AC220V, 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.
- ▶ **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)

## Specification

Model	Rocker 800	Rocker 801
Voltage / Freq.	110V/60Hz	110V/60Hz
Max. power	220W	220W
Max. current	2A	2A
Max. vacuum	120 mbar	120 mbar
Max. flow rate	100 L/min	80 L/min
Motor rotation speed	1750 RPM	1750 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

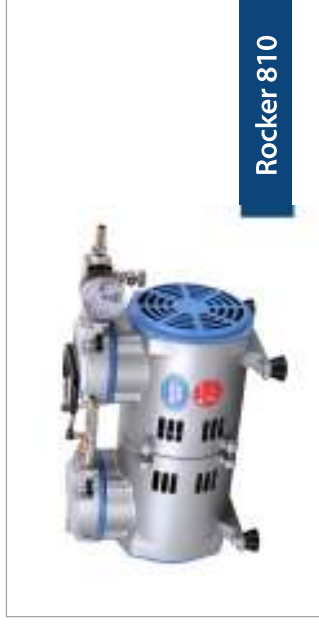
\* Moisture Trap / Vacuum Regulator doesn't include overflow protection.

# 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	ID8	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**  
Laflil 300 and Laflil 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**  
Laflil 300 and Laflil 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 Laflil 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**



Laflil 300



Laflil 400

## Specification

Model	Laflil 300		Laflil 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	

## Applications

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

## Ordering Information

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

# 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.

### International certification

CE certification  
IP 30 protection (Rocker 300C)  
RoHS certification (Rocker 300C)

### One-Year Warranty

## Applications

- ▶ Solvent purification
- ▶ Solid-Phase Extraction (SPE)
- ▶ Vacuum filtration

## Ordering Information

### 189300-11(22)

Rocker 300C, PTFE Coated Chemical Resistant Vacuum Pump  
ACI110V, 60Hz (AC220V, 50Hz)

### 197330-11(22)

Lafil 300C, PTFE Coated Chemical Resistant Vacuum Pump  
ACI110V, 60Hz (AC220V, 50Hz)



Rocker 300C



Lafil 300C - VF 12

Lafil 300C

## Specification

Model	Rocker 300C	Lafil 300C
Voltage / Freq.	110V/60Hz	110V/60Hz
Max. power	65W	65W
Max. current	0.7A	0.7A
Max. vacuum	145 mbar	145 mbar
Max. flow rate	23 L/min	23 L/min
Motor rotation speed	1750 RPM	1750 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

# 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

## Applications

- ▶ Solvent purification
- ▶ Gel dryer
- ▶ Vacuum desiccator
- ▶ Vacuum filtration

## Ordering Information

### 189400-11(22)

Rocker 400C, PTFE Coated Chemical Resistant Vacuum Pump  
ACI110V, 60Hz (AC220V, 50Hz)

### 189410-11(22)

Rocker 410C, PTFE Coated Chemical Resistant Vacuum Pump  
ACI110V, 60Hz (AC220V, 50Hz)



Rocker 400C



Rocker 410C

## Specification

Model	Rocker 400C	Rocker 410C
Voltage / Freq.	110V/60Hz	110V/60Hz
Max. power	100W	100W
Max. current	1.0A	1.0A
Max. vacuum	105 mbar	25 mbar
Max. flow rate	34 L/min	23 L/min
Motor rotation speed	1750 RPM	1750 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

# 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

## Specification

Model	Chemker 300			Chemker 400		
Voltage / Freq.	110V/60Hz	220V/50Hz	220V/50Hz	110V/60Hz	220V/50Hz	220V/50Hz
Max. power	70W	60W	90W	90W	90W	90W
Max. current	0.8A	0.32A	1.1A	1.1A	0.5A	0.5A
Max. vacuum	105 mbar		105 mbar	105 mbar		
Max. flow rate	20 L/min	18 L/min	38 L/min	38 L/min	33 L/min	33 L/min
Motor rotation speed	1700 RPM	1450 RPM	1700 RPM	1700 RPM	1450 RPM	1450 RPM
Horse power	1/8 HP		1/6 HP	1/6 HP		
Noise level	50 dB		52 dB	52 dB		
Hose barb	ID8		ID8	ID8		
Moisture Trap / Vacuum regulator	-		-	-		
Safety	Thermal Protection		Thermal Protection	Thermal Protection		
Net weight	5.0 Kg		7.0 Kg	7.0 Kg		
Dimension (LxWxH)	20.3 x 11.2 x 20.9 cm		26.7 x 11.2 x 18.1 cm	26.7 x 11.2 x 18.1 cm		

## 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)

# 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

## Specification

Model	Chemker 410			Chemker 411		
Voltage / Freq.	110V/60Hz	220V/50Hz	220V/50Hz	110V/60Hz	220V/50Hz	220V/50Hz
Max. power	90W	90W	90W	90W	90W	90W
Max. current	1.2A	0.5A	0.5A	1.2A	0.5A	0.5A
Max. vacuum	10 mbar		10 mbar	10 mbar		
Max. flow rate	20 L/min	18 L/min	18 L/min	20 L/min	18 L/min	18 L/min
Motor rotation speed	1700 RPM	1450 RPM	1450 RPM	1700 RPM	1450 RPM	1450 RPM
Horse power	1/6 HP		1/6 HP	1/6 HP		
Noise level	52 dB		52 dB	52 dB		
Hose barb	ID8		ID8	ID8		
Moisture Trap / Vacuum regulator	-		-	-		
Safety	Thermal Protection		Thermal Protection	Thermal Protection		
Net weight	7.0 Kg		7.4 Kg	7.4 Kg		
Dimension (LxWxH)	26.2 x 14.8 x 18.2 cm		26.2 x 14.8 x 18.2 cm	26.2 x 14.8 x 18.2 cm		

## 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)

\* 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**

## 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)



Chemker 600

## Specification

Model	Chemker 600	Chemker 611
Voltage / Freq.	110V/60Hz	220V/50Hz
Max. power	220W	200W
Max. current	2A	1.2A
Max. vacuum	65 mbar	7 mbar
Max. flow rate	65 L/min	30 L/min
Motor rotation speed	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	-	-
Safety	Thermal Protection	Thermal Protection
Net weight	13.2 Kg	13.7 Kg
Dimension (LxWxH)	35 x 15.4 x 22.5 cm	35 x 20.3 x 23.5 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.
- ▶ **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**

## 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)



Chemker 611

## Specification

Model	Chemker 610	Chemker 611
Voltage / Freq.	110V/60Hz	220V/50Hz
Max. power	220W	220W
Max. current	2A	2A
Max. vacuum	7 mbar	7 mbar
Max. flow rate	34 L/min	30 L/min
Motor rotation speed	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