

Infitek

VACUUM PUMPS

Rotary-vane vacuum pump
Diaphragm Vacuum Pump
Water Circulating Vacuum Pump
Oil-free vacuum pump



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VERSION.2023

Rotary-vane vacuum pump

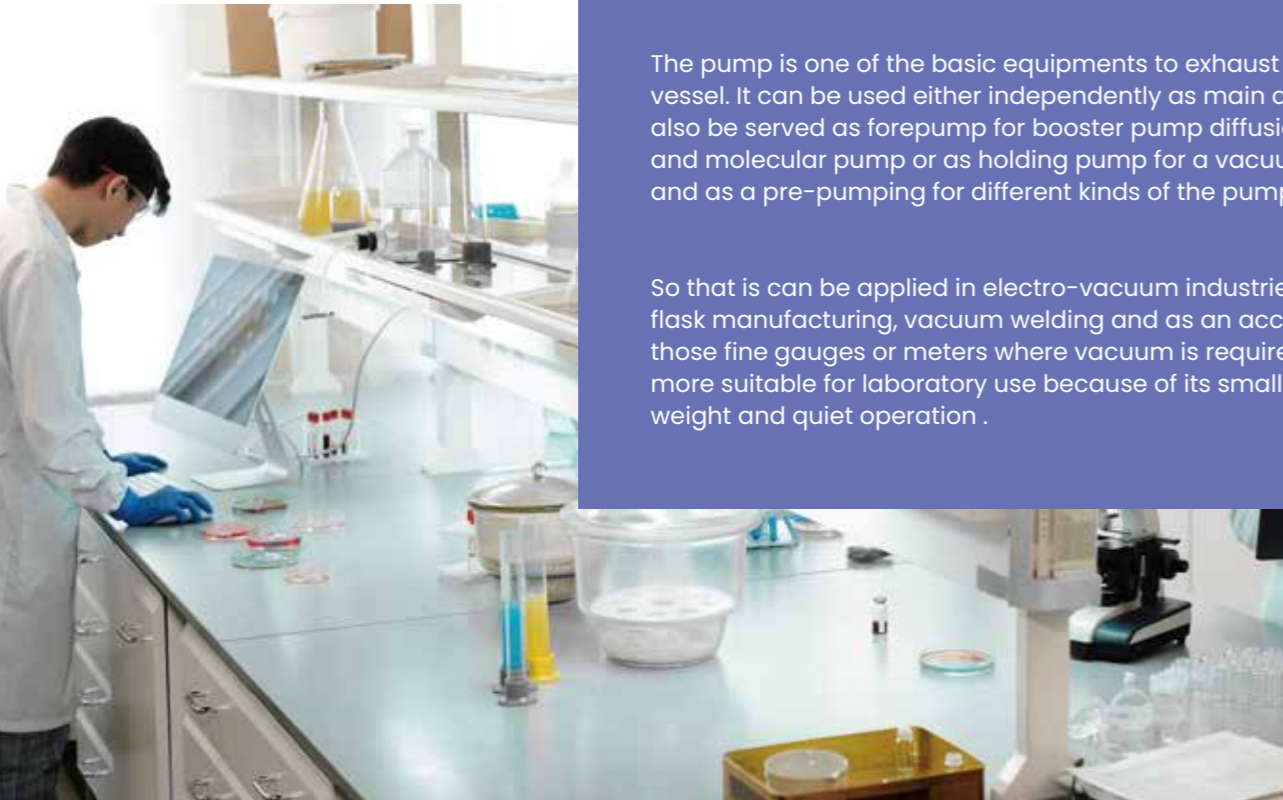
VACP-R1 VACP-R2 VACP-R4



VACP-R1 VACP-R2 VACP-R4

The pump is one of the basic equipments to exhaust a sealed vessel. It can be used either independently as main and can also be served as forepump for booster pump diffusion pump and molecular pump or as holding pump for a vacuum system and as a pre-pumping for different kinds of the pumps.

So that is can be applied in electro-vacuum industries, vacuum flask manufacturing, vacuum welding and as an accessory to those fine gauges or meters where vacuum is required .It is more suitable for laboratory use because of its small size ,less weight and quiet operation .



The pump is allowed to work continuously for many hours at a stretch under atmospheric temperature of 5°C-40°C and intake pressure below 1230pa.While the pumped gas containing moisture of a relative humidity of more than 90% gas-ballast valve should be open.



Whit the inlet port widely opened to atmosphere the pump is not allowed to work more than one minute.

The pump is not suitable for pumping over -oxidized, poison, explosive and corrosive gas as well as gases which react chemically with the pump oil contain particles of dust.



Adapter



Quick release tube



Small bore tube



oil mist collector

Specifications

Model		VACP-R1	VACP-R2	VACP-R4
Pumping Speed m ³ /h(L/s)	50HZ	3.6(1)	7.2(2)	14.4(4)
	60HZ	4.3(1.2)	8.6(2.4)	17.2(4.8)
Limit pressure (Pa)	Partial	≤6×10 ⁻²	≤6×10 ⁻²	≤6×10 ⁻²
	Total	≤1.33	≤1.33	≤1.33
50HZ	Speed(r/min)	1400	1400	1400
	60HZ	Speed(r/min)	1720	1720
Power (Kw)		0.25	0.37	0.55
Voltage(V)		220/380	220/380	220/380
Inlet diameter (mm) (outer diameter)		φ 20	φ 30	φ 30
Inlet diameter (mm) (inner diameter)		Φ16	φ 25	φ 25
Noise(dBA)		65	68	68
Oil capacity (L)		0.7	1	1.2
Oil consumption(L)		0.55	0.65	0.8
Overall Dimensions(mm)		469×168×260	514×168×282	565×168×282
Weight(Kg)net/gross		18/17	22/20	24/22

Diaphragm pump

VACP-D21 VACP-D31 VACP-D51 VACP-D52 VACP-D102



The special electricity motor is provided by the expert motor manufacturer ODM. Reasonable rotation design, equipped with an overheating power-off protector, will automatically power off when the pump body temperature reaches 130°C, and protect the motor from damage during long-term operation.



The pressure adjustable design can meet the vacuum degree and gas flow rate within a certain range.



The bearing adopts imported classic bearings, with stable operation, low noise and high working efficiency.



Adopt frictionless film movement, no heat generation, no friction loss. The diaphragm is made of imported rubber, which is corrosion resistant and has a long service life.



The parts of the anti-corrosion pump in contact with gas are treated with Teflon surface treatment, which is resistant to chemical corrosion.



Automatic cooling and exhaust system, which ensures continuous operation for 24 hours.



Small size, light weight, easy to move, saving laboratory space, convenient for repair and maintenance.

Optional Accessory: Retention Bottle

VACP-D52, VACP-D102, VACP-D31, VACP-D51:




No need for any working medium (no oil), no pollution. The air exchange chamber is equipped with filter materials to ensure the air purity.



Adopt new technology and new materials in the production process. Easy to move and work smoothly, thus ensuring an ideal vacuum degree and a high air flow rate.



Specifications

Model	VACP-D21	VACP-D31	VACP-D51	VACP-D52	VACP-D102
Pumping Speed (L/Min)	15	20	30	30	60
Ultimate Vacuum	250mbar	200mbar	200mbar	50mbar	200mbar
Voltage	220Vac,50Hz	220Vac,50Hz	220Vac,50Hz	220Vac,50Hz	220Vac,50Hz
Power	75W	160W	160W	160W	160W
Positive Pressure	≥30Psi	/	≥30Psi	/	≥30Psi
Air Inlet (mm)	φ6	φ6	φ6	φ6	φ6
Air Outlet (mm)	φ6	Silencer Cotton	φ6	Muffler	φ6
Operating Ambient Temperature(°C)	7-40	7-40	7-40	7-40	7-40
Pump Head	/	1	1	2	2
Pump body Temperature(°C)	<55	<55	<55	<55	<55
Dimension(L×W×H) (mm)	245x120x160	270x130x210	230x180x265	350x130x220	310x200x210
Weight(Kg)	4	7	7.5	10	10
Diaphragm	/	Imported Rubber	Imported Rubber	Imported Rubber	Imported Rubber
Valve Plate	/	Imported Rubber	Imported Rubber	Imported Rubber	Imported Rubber
Pump Head Material	Nylon	/	/	/	/
Noise(BD)	<60	<60	<60	<60	<60
Note	Positive-negative pressure dual purpose	/	Positive-negative pressure dual purpose	/	Positive-negative pressure dual purpose

Diaphragm Vacuum Pump

VACP-D201 VACP-D401 VACP-D201Z VACP-D301



Applications

VACP-D series diaphragm vacuum pump provides negative pressure condition for processes of evaporation, distillation, crystallization, drying, sublimation, reduced pressure filtration etc. It can be used to extract a variety of highly toxic, flammable and explosive, strong acid, and alkali sample.

Features



A substitute for water circulating vacuum pump and rotary vane vacuum pump.



No need of any working medium. No friction between working parts.



Vacuum level can be adjusted according to experiment requirements.



After 1 500 hours of fatigue testing, it can work stably.



Motor is supplied by famous manufacturer.

PTFE + FV

All parts that contacting gases are made of PTFE + FV rubber with chemical resistance.



With reasonable design, transmission runs smoothly.



Valve plate adopts imported materials.



VACP-D201



VACP-D401



VACP-D201Z



VACP-D301

Specifications

Model	VACP-D201	VACP-D401	VACP-D201Z	VACP-D301
Motor Power (W)	180	300	180	180
Power Supply	220-240V~, 50Hz	220-240V~, 50Hz	220-240V~, 50Hz	220-240V~, 50Hz
Inlet Diameter (mm)	Φ10×Φ6	Φ10×Φ7	Φ10×Φ6	Φ10×Φ6.5
Ultimate Vacuum (MPa) / Extreme pressure (mbar)	0.095/50	0.095/50	0.0992/8	0.0935/65
Pumping Speed (L/min)	25	45	25	40
Dimensions (mm)	310W×225D×168H	195W×440D×310H	310W×225D×168H	310W×225D×168H
Net Weight (kg)	10	23	10	10

Chemical Resistant Diaphragm Pumps

VACP-D410



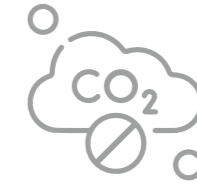
Applications

VACP-Dseries are chemical resistant, diaphragm vacuum pumps which can be widely used to hard acidic, basic and solvent vapors by utilizing corrosion proof PTFE on all the wetted surfaces. Through innovative mechanical technology and human considerations, we have made VACP-D series to be quiet, safe, maintenance-free and cost effective vacuum pumps.



High chemical resistant

All wetted parts of VACP-D series pump are made of PTFE material which can resist most of corrosive gases.



No air pollution, maintenance free

VACP-D 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 vibration-proof assembly makes VACP-D series run at the lowest noise level among all other equivalent pumps.



Thermal protection device

Every motor of VACP-D 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.

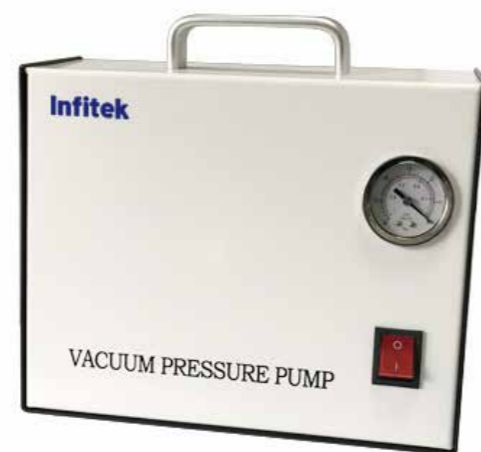
Specifications

Model	VACP-D410	
Powe	115V/ 60Hz	220V/ 50Hz
Max. powe (W)	90	95
Max. current (A)	1.4	0.5
Max. vacuum (mbar)	13	13
Max. Flow Rate	25	25
Motor Speed (rpm)	1700	1450
Work Mode	Double	Double
Outlet (mm)	10	10
Size WxDxH (mm)	294*156*195	294*156*195
Weight (kg)	8.5	8.5
Noise Level (dB)	50	50
Order No.	169410	169410



Oil-free vacuum suction filter pump

VACP-OL10



Features

- All-metal shell, aluminum alloy handle, easy to use, full-featured.
- Provide a clean vacuum environment without pollution.
- Unique membrana dermalis design reduces wear and extends working life.
- It is equipped with overheating protection device to prevent motor damage and prolong the service life of the pump body.
- With dual functions of air extraction and blowing (It can be customized.)

Specifications

Model	VACP-OL10
Flow rate (L/min)	10
Maximum vacuum (kPa)	80
Power (W)	50
Maximum working temperature	40 °C
Optimum working time (min)	30

Oil-free vacuum suction filter pumps are widely used in filtration, sample concentration, solid phase extraction and other devices, and are important basic equipment in the laboratory. Single-stage or two-stage pumps provide a completely clean vacuum environment. The pump body itself requires no maintenance and does not produce any contaminants.



Bench Water Circulating Vacuum Pump

VACP-WC3Y



Features

Water Circulating Vacuum Pump takes circulating water as working fluid to create negative pressure by fluid jet. It can provide negative pressure condition for the processes of evaporation, distillation, crystallization, drying, sublimation, pressure-reducing filtration and so on, particularly be suitable for labs and small scale test of

industries such as universities and colleges, scientific research institutes, chemical industry, pharmacy, biochemistry, foodstuff, pesticide, agricultural engineering, biological engineering.



PTFE spray jets



PTFE spray nozzle



Fluoroelastomer tube

Spray Paint Teflon (PTFE) plus FV Rubber on the ejector and suction nozzle. Hose is made of fluorine rubber.

Better corrosion resistance and more reliability and longer service life.

Specifications

Model	VACP-WC3Y
Power	180W
Power supply	220V
Flow	60L/MIN
Lift	8M
Material	Anti-corrosive
Tap	2
Tapping capacity	10L/MIN
Volume	15L
Size	400*280*420
Weight	15KG



Water Circulating Vacuum Pump

VACP-WC3 VACP-WC3G



VACP-WC3



VACP-WC3G

Features

Water Circulating Vacuum Pump takes circulating water as working fluid to create negative pressure by fluid jet. It can provide negative pressure condition for the processes of evaporation, distillation, crystallization, drying, sublimation, pressure-reducing filtration and so on, particularly be suitable for labs and small scale test of

industries such as universities and colleges, scientific research institutes, chemical industry, pharmacy, biochemistry, foodstuff, pesticide, agricultural engineering, biological engineering.



PTFE spray jets



PTFE spray nozzle



Fluoroelastomer tube

Spray Paint Teflon (PTFE) plus FV Rubber on the ejector and suction nozzle. Hose is made of fluorine rubber.

Better corrosion resistance and more reliability and longer service life.

Complete Set



Specifications

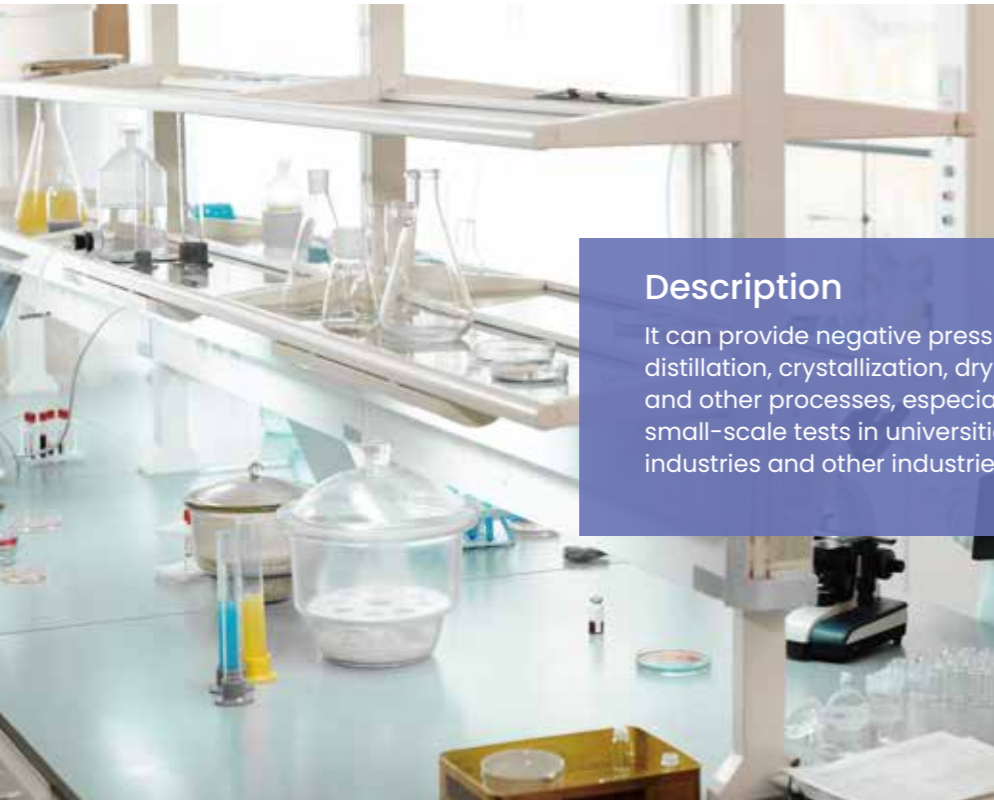
Model	VACP-WC3/ WC3G
Power (W)	180
Power Supply	110V~, 60Hz or 220-240V~, 50/60Hz
Flow (L/min)	80
Lift (m)	10
Ultimate Vacuum (MPa)	0.098 (2kPa)
Single Tap Air Suction Amount	10L/min
Number of Tap	2
Safety	Check valve, over-current protection
Water Tank Capacity (L)	15
Water Tank Material	PP
Dimensions (mm)	385W×280D×420H
Net Weight (kg)	11

Main parts comparison(VACP-WC3 Series)

Model	VACP-WC3	VACP-WC3G
Ejector	PP	Copper + PTFE
Tee Junction	PP	PP
Check Valve	PP + Copper	PP + Copper
Suction Nozzle	PP	Copper + PTFE
Pump Body	SUS 304	SUS 304
Impeller	SUS 304	SUS 304
Connection Pipe	NR	FPM

Water Circulating Vacuum Pump

VACP-WC95A



Description

It can provide negative pressure conditions for evaporation, distillation, crystallization, drying, sublimation, vacuum filtration and other processes, especially suitable for laboratories and small-scale tests in universities, research institutes, chemical industries and other industries.

Features



Obvious water saving effect

The water added in the water tank can be recycled, which overcomes the phenomenon of wasting a lot of water when the vacuum is obtained by directly flushing tap water.

It can be used for a long time after adding water once, especially suitable for laboratories with insufficient water source or water pressure.



Multi-function

In addition to providing vacuum conditions, this machine can also perform external circulation operations at the same time to provide circulating cooling water for the reaction device.

The machine is connected to the tap water source, and the temperature and water quality of the vacuum circulating water can be kept unchanged under the condition of continuous operation for a long time by supplementing the water injection source in an appropriate amount.



Energy efficient & Easy to use

The pump head of this machine is directly intruded into the water, easy to move, easy to operate and observe, and can be opened for water filling and maintenance.

The machine is equipped with five suction nozzles, which can work independently or simultaneously.

Corrosion-resistant, pollution-free, convenient and durable, not affected by corrosive substances such as acid and alkali, and does not produce any oil, impurities, etc. that pollute the laboratory.

Specification

Model	VACP-WC95A
Water Tank Capacity	50L
Flow	80L/min
Number of Tap	5
Single Tap Air Suction Amount	10L/min
Lift	12m
Material	Stainless steel
Electricity	220V
Power	370W
Dimensions(W*D*H)	450*340*870mm
Net Weight	35kg



Water Circulating Vacuum Pump

VACP-WC95B



Widely applied to research experiments, small scale tests and small scale production with the process of evaporation, distillation, crystallization, drying, sublimation, pressure-reducing filtration.



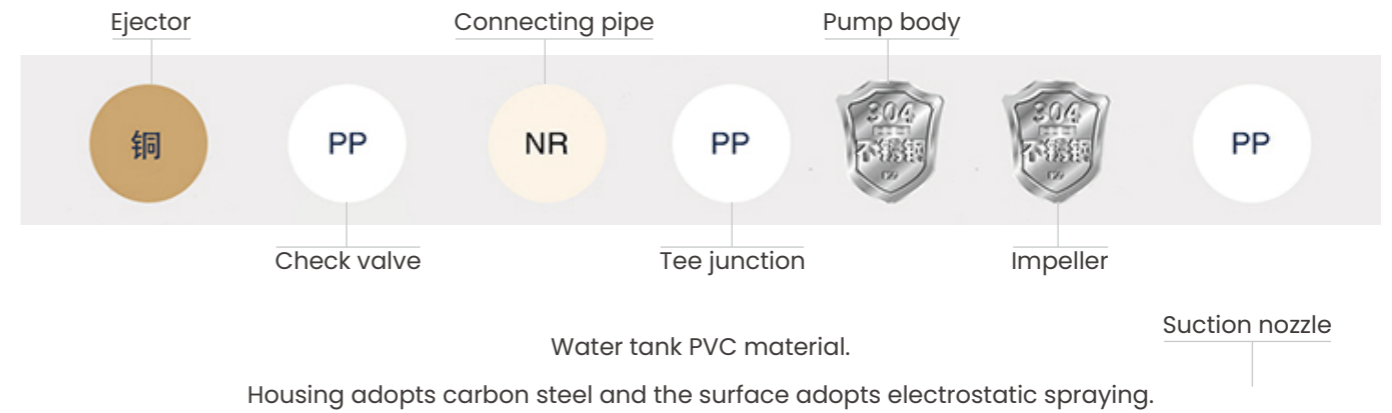
Motor is supplied by famous manufacturer with fluorine rubber sealing which can avoid the invasion of corrosive gas.



Equipped with casters for convenient moving.



Five taps can be used alone or in parallel. A five-way adapter can connect five taps to increase air sucking amount, which can meet the experiment requirements of large scale rotary evaporator or reactor.



Specifications

Model	VACP-WC95B
Power(W)	550
Power Supply	110V~,60Hz or 220-240V-, 50/60Hz
Flow (L/min)	100
Lift(m)	12
Safety	Check valve, over-current protection
Housing Material	electrostatic spraying
Ultimate Vacuum (MPa)	0.098(2KPa)
Single lap Air Suction Amount	10L/min
Number of lap	5
Water Tank Capacity (L)	57
Water Tank Material	PE
Dimensions (mm)	450Wx350Dx820H
Weight(kg)	36



Replace water regularly to keep water clean to ensure perfect vacuum condition. Shorten the water replacing period when it is used to pump corrosive gas.