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BOROSIL®
Scientific
enabling the future of science

Lab Vacuum Solution

Oil free & Chemical Resistant Pumps

Efficient, Reliable & Maintenance Free Vacuum technology for every laboratory

LABQUEST

SMART • RUGGED • PRACTICAL

Oil Free Piston Vacuum Pumps

These vacuum pumps are piston-powered, oil-free pump. With innovative electronic, mechanical technology and human design concept, compact and lightweight, clean and maintenance free, safe and comfortable.

- No air pollution, maintenance free: Pumps are driven by piston, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- Moisture trap with filter cartridge: Pumps are equipped with filter cartridge in air inlet to filter particle and moisture to prolong the life of pump.
- Oil-free: The oil-free piston vacuum pump provides continuous, reliable, high flow vacuum for your container.
- Vacuum Regulator: Pumps are equipped with vacuum regulator to adjust vacuum.
- Thermal protection device: Every motor of oil free piston 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.

Applications

All aqueous filtrations

- Biology laboratories
- Food industry
- Microbiological detection
- Vacuum extraction
- Liquid filtration
- Vacuum drying
- Suspended solids measurement

Model Name	BORO017	BORO034	BORO060
Power(V / Hz)	220 / 50	220 / 50	220 / 50
Max. Vacuum	100 mbar	100 mbar	100 mbar
Max. flow rate	17 L / min	34 L / min	60 L / min
Motor rotation	1450 rpm	1450 rpm	1450 rpm
Outlet Port thread	9 mm	9 mm	9 mm
Vacuum Stage	Single	Double	Double
Noise level	50 dB	60 dB	52 dB
Weight	4.4 kg	5.4 kg	8.6 kg
Dimension (W x D X H) mm	272 x 142 x 165	310 x 152 x 165	340 x 155 x 195
Electrical Requirement	0.3 A	0.4	1
Power Consumption	65 W	80 W	190 W
Product Code	100VP300017	100VP400034	100VP600060

Vacuum Trap Bottle is a specialized laboratory container used for collecting and trapping liquids during vacuum filtration or aspiration processes, thus safeguarding pump diaphragm being damaged by liquids.
PP Vacuum Bottle, 2000 mL

- Product Code: 100VPSB0020
- Cap with Hose Fitting: Yes (2 fittings)
- Hose Barb: ID8
- Autoclavable: Yes

Chemical Resistant Vacuum Pumps

- **High Chemical Resistant:** All wetted parts of these pumps are made of PTFE which is ideal for extremely aggressive / corrosive gases and vapors..
- **Long-term durable:**
  > High quality PTFE coated EPDM provides long term chemical resistance.
  > This thick-walled, diffusion resistant, moulded fluoroplastic is supported by a stable metallic core for durability
- **No air pollution, maintenance free:** Pumps are driven by diaphragm, without the need of lubricant..
- **Practical:**
  > Smooth surfaces for easy cleaning
  > Sealing system provides reduced leakage rates for improved ultimate vacuum
- **Quiet and low vibration:** Driven direct by motor with no additional belt-driven transmission.
- **Thermal protection device:** Every motor of pump 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 safety certification:** CE certification

Applications

These chemical-resistant diaphragm vacuum pumps are suitable for use with harsh acidic, basic, and solvent vapors, thanks to the corrosion-proof PTFE on all wetted surfaces.

- Solvent based Vacuum filtrations
- Pharma Industry- Solvent Purifications
- Solid phase extraction

Model Name	BORO CR C300	BORO CR C400
Power(V / Hz)	220 V / 50 Hz	220 V / 50 Hz
Max. Vacuum	10 1 mbar	120 mbar
Max. flow rate	22 L / min	34 L / min
Motor rotation	1450 rpm	1450 rpm
Outlet Port thread	10 mm	10 mm
Vacuum Stage	Single	Single
Noise level	50 dB	50 dB
Weight	6 kg	8.5 kg
Dimension (W x D X H) mm	233x110x210	294x156x195
Electrical Requirement	1	1
Power Consumption	60	95
Product Code	100VPC30022	100VPC40034

*Note: Specific high capacity Models and vacuum regulator accessories are also available on request for covering applications in Rotary Evaporation, Vacuum ovens &Vacuum Centrifugal concentrator.

Common Applications

Suction filtration utilizes a vacuum pump to efficiently separate solids from liquids, speeding up the filtration process and ensuring a higher degree of purity in the filtered solution

Vacuum drying uses a vacuum pump to remove moisture from materials quickly and efficiently, preserving sensitive substances and reducing drying time.

Vacuum pumps facilitate microbiological tests by enabling rapid and sterile filtration of samples, ensuring accurate detection and analysis of microorganisms

Vacuum pumps enhance solid phase extraction by expediting the separation and purification of analytes from complex mixtures, ensuring efficient and precise sample preparation

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