

Vacuum Manifold & Vacuum Pressure Pump

Vacuum Manifold

Working Theory

This vacuum manifold equipment is a popular pre-treatment technique that has been widely applied in solid phase extraction (SPE). It is basically developed from LLE principle and it also combines application of HPLC and GC. Solid phase extraction (SPE), according to its principle, can be separated to four categories RP-SPE, NP-SPE, IE-SPE, and SPE (Adsorption). In most cases, SPE is used in liquid sample processing for extraction, condensation, and purification.

Solid phase extraction has practical applications in biological liquid, such as urine, blood, blood serum; analysis of food processing such as milk, wine, and juice. Other applications include PAHs and PCBs organic substance analysis, antibiotic and clinical medical analysis.



Application:

This equipment of SPE has benefits of safety, high effectiveness, convenience, and less use of organic solvents. Its flexible settlement enables more convenient and easy operation. The basin is made of material of chemically resistant and vacuum-safe glass to provide excellent throughput.

Features:

- Clearly marked ports and racks to ensure correct positioning of collection vessels.
- Compatible with standard SPE and filtration columns.
- Individually controlled stopcocks to permit flow control at each position.
- Basin is made of chemically resistant and vacuum-safe glass.
- Clear glass basin allows observation of fluids as they pass through columns.
- Different types of rack to accommodate 12, 16 or 20 samples through collection columns.

Specifications

- Standard glass basin
- Collection rack that can accommodate 12, 16, or 20 operating samples
- Standard collection column

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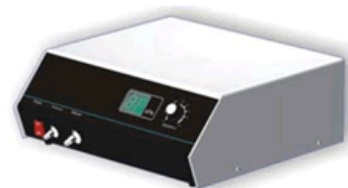
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Vacuum Pressure Pump (Oil free)

CT vacuum pressure pump is an adjustable pump with a unique method of adjusting pressure. It uses the pressure sender to detect the pressure in the system and then readjusts the pump's working period. This series of vacuum pressure pumps still maintain stable pressure even when the current changes. With main parts made of Teflon, PTFE resin, these advanced pumps can endure large volume flow and high pressure to meet requirements of many filter systems. Having separate negative and positive pressure connectors and stable pressure for experiment samples of extraction and purification, this equipment has been applied to many fields, especially in biochemistry.

DP-02

- Flat shape perfect for placement under lab benches.
- Accurate, reliable dual LED pressure display.
- Convenient knob for adjustment of vacuum pressure.
- Separate positive and negative joints allow this instrument wider application.



DP-08

- An optional function to adjust pressure and flow volume.
- Dual-head pump offers more capacity over single head pump.
- Convenient for choosing working way to be series connection or parallel connection.



DP-01

- Convenient for operation.
- Small size design.



Model	DP-02	DP-08	DP-01
Vacuum Pressure (Kpa)	0 ~ 80 (Adjustable)	0 ~ 80 (Adjustable)	80
Max Positive Pressure (Psi)	18	20	18
Capacity (ml/min)	10000	20000	12000
Power (VA)	45	100	80
Dimensions (W × H × D) (mm)	230 × 85 × 200	292 × 180 × 155	210 × 150 × 120

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