

VacSafe™ 15

15 l/min., 30 hPa

Vacuum Pump



High volume, low pressure vibration free, portable and noiseless vacuum pump, maintenance free with unbreakable mechanical parts. Saves the environment from uncondensed vapours and liquids, avoiding harmful contamination in the laboratory and saves water, energy, expensive oils, membranes and other spare parts,



Environmental friendly

- ◆ Traps all vapours and condensates by preventing expulsion of organic solvents, acids and other containments into the drain and laboratory environment but into a clean and controllable closed container system.

High performance

- ◆ The high volume of 2 × 10 L/min or 1 × 15 L/min and the low ultimate vacuum of 30 hPa ensure the highest performance for most applications.

Vibration free

- ◆ Water acts as vibration damper compensating for any vibrations developed in the laboratory or during the process giving vibration free vacuum process.

Economic

- ◆ Maintenance free with no oil or expensive unpractical, membrane change.
- ◆ Corrosion resistant and strong cleanable design
- ◆ Long life time - it never breaks.
- ◆ Saves energy - uses only 100 Watt as to normal vacuum and membrane pumps
- ◆ Involves no expensive spare parts.

User-friendly

- ◆ Noiseless, Portable, Compact and easy cleanable for safe handling of even highly classified contamination materials
- ◆ Can be supplied with foot switch for easy start stop.

The Water jet alternative

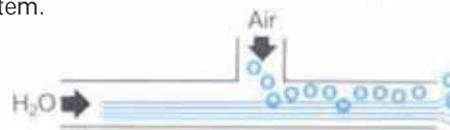
- ◆ Saves up to 5 tons of valuable tap water per working day against traditionally water jets systems with a pay back time less than 3 months.

Applications:

- ◆ Vacuum Concentrations
- ◆ Rotary Evaporation
- ◆ Kjeldahl Equipment
- ◆ Elisa Washers
- ◆ Filtration
- ◆ Laminar flow cabinet work
- ◆ Vacuum Ovens
- ◆ Distillation
- ◆ Vacuum desiccators

Working principle

An vacuum pump works in principle like all traditional water jets. The water is generated from a circulation pump and is expanded into a larger volume. This expansion will create a low pressure, which is used for generating the vacuum wanted in the system.



The expansion and the speed of the water are the two most important factors to determine the air removal capacity. The temperature of the water will determine the ultimate vacuum obtainable, at room temperature 30 hPa. Vapours and condensates are collected and diluted in the bath containing up to 4 litres of water preventing it to be exposed to the lab and environment.

Accessories:

Connection of the 2 pipes to 1 for getting higher volume performance.
Footswitch for easy start/stop of operation saving energy
Vacuum regulator add on for easy control and regulation of the vacuum level

Specifications VacSafe 15

Air capacity (1 atm.), L/min:	2 × 10 or 1 × 15
Ultimate vacuum:	
24 °C, hPa:	30
2 °C, hPa:	7
Time for reaching 50 hPa (at 25 °C), min	6
Noise level at max. flow, dB(A)	< 53
Power, V/Hz:	230/50, 115/60
Power consumption, W:	100
Materials:	Polycarbonate
	Stainless steel AISI 316
Weight, kg:	3
Includes:	2 pipes



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