

Data Sheet

EZ-Stream™ Vacuum Filtration Pump

The laboratory filtration pump that transfers filtered liquids directly to waste.

- Direct transfer ensures no handling of liquid waste
- Complies with ISO® Standard for microbiological analysis
- High performance flow rate
- Noise reduction design
- Compact
- Maintenance-free technology

Microbiology

The new EZ-Stream vacuum filtration pump is specifically designed for microbiology analysis. The compact design (W 20cm – L 17cm – H 22cm) makes the pump ideal for use on both the work bench and in the laminar flow hood where its small footprint saves precious laboratory space.

With the new EZ-Stream pump, the vacuum is provided by a maintenance-free diaphragm and specific check valves that allow liquids to run through the pump. There is no need to use any waste containers normally associated with traditional air pumps or an in-house vacuum. This frees up space in the laboratory working area and eliminates the need for repeated emptying of heavy waste containers.

The EZ-Stream pump is ideal for handling of both liquids and gases making it suitable for many life science laboratory applications as well.



Regulatory compliance

The ISO 8199 standard for Water Quality (general guidance on the enumeration of micro-organisms by culture), describes the conditions for membrane filtration. To comply with these guidelines, each individual EZ-Stream pump is tested to ensure that the maximum vacuum delivered does not exceed 700mBar, which is the recommended vacuum value for this standard.

A critical point in the microbiology laboratory, and aligned with GLP, is decontamination of equipment. The smooth design of the pump makes this operation easy and efficient. The EZ-Stream pump has been qualified to be compatible with a range of decontamination agents.

Diagram 1. Water filtration time of EZ-Stream pump, vs conventionally available pumps.

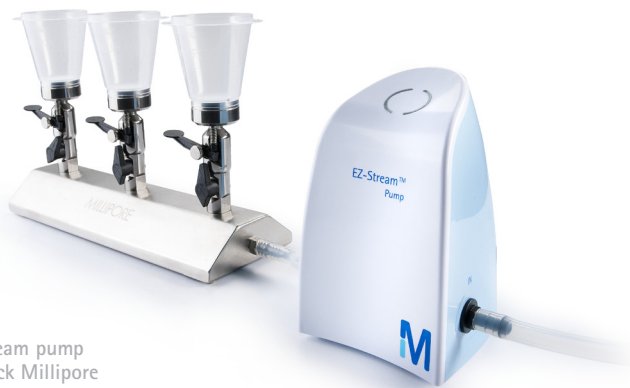
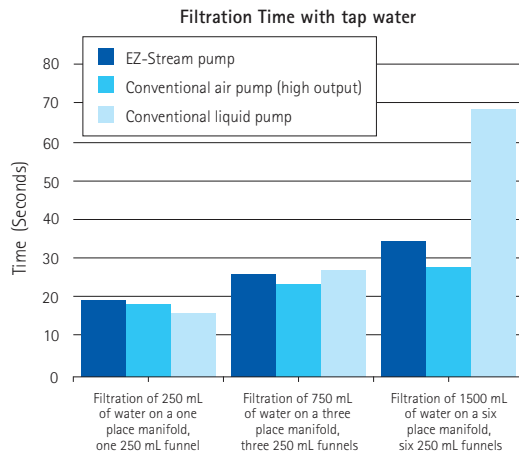


Figure 1. Ez-Stream pump set up with Merck Millipore 3 place manifold and Microfil® funnels.



Figure 2. EZ-Stream pump set up with Merck Millipore Hydrosol™ 6 place manifold and Microfil V filtration devices.

Simple Set Up Saves Time

The EZ-Stream pump is simple to set up and therefore saves you precious time. Simply connect the pump to your manifold or filtration apparatus, place the discard tubing to drain and you are ready to filter. There is no need to use additional containers to capture the waste liquid. This brings a significant time saving versus traditional vacuum/pressure pumps or in-house vacuum because the following steps are eliminated: disconnecting the waste containers, emptying liquid waste, cleaning/decontaminating, re-installing the waste containers.

High Performance

Thanks to its innovative design, the EZ-Stream pump can provide vacuum up to 600-700 mbar, and because it transfers liquids through the pump head this translates to a high flow rate performance. The pump can easily handle a multiple head manifold for water or beverage testing, providing a comparable flow rate to conventional air pumps (vacuum/pressure pumps) and a better flow rate when compared to other liquid pumps.

The EZ-Stream pump technology and the materials of construction provide reliable vacuum performance and make it maintenance-free. The diaphragm is made of highly durable chemically resistant polytetrafluoroethylene (PTFE).

Quiet Design

Noise is often an issue when using filtration pumps. The EZ-Stream housing fully covers the pump mechanism and the assembly has been optimized to reduce the noise down to 60 dB improving operator comfort.



Technical Specifications

Flow rate (tap water)	3.8 to 4.0 L/min
Material in contact with the liquid filtered <i>Please check the compatibility of your fluids</i>	Polyoxymethylene (POM) Polytetrafluoroethylene (PTFE) Ethylene Propylene Diene Monomer (EPDM) Nitrile Butadiene Rubber (NBR) Polypropylene (PP)
Dimensions (W*L*H) in cm	(19.6 * 16.8 * 22.2)
Weight	1.9 kg
Tubing connection	Hose barb for approximately 10 mm ID tubings (NPS $\frac{3}{8}$ or DN 10)
Electrical norms compliance	CE/PSE, for cUL consult Technical service
Protection type	IP64
Protection class	III



Ordering Information

Description	Qty/Pk	Catalogue No.
EZ-Stream vacuum pump for liquid transfer. Box contains: Pump, User guide, Power supply	1	EZSTREAM1
5 meter autoclavable silicone tubing with 9.5 mm ID (internal diameter)	1	STREAMTUB
3 meter PVC tubing with 9.5 mm ID (internal diameter)	1	XX6700034

Related products

Description	Qty/Pk	Catalogue No.
Microfil filtration manifold, 3 place, stainless steel	1	MIAC03P01
Microfil filtration manifold, 1 place, stainless steel	1	MIAC01P01
EZ-Pak® membrane dispenser	1	EZDISP001
100 mL Microfil funnel dispenser	1	MIACFD101
250 mL Microfil funnel dispenser	1	MIACFD201
Standard Hydrosol filtration manifold, 3 place, stainless steel	1	XX2504735
Standard Hydrosol filtration manifold, 6 place, stainless steel	1	XX2504700

Please consult our Website or contact our sales representative for access to the complete range of equipment and consumables for microbiological analysis.



To Place an Order or Receive Technical Assistance

In Europe, please call Customer Service:

France: 0825.045.645
 Spain: 901.516.645 Option 1
 Germany: 01805.045.645
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 United Kingdom: 0870.900.46.45

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