Microsart® e.jet

Laboratory Transfer Pump with Quick Connection for Microbiological Analysis

Typical Set-up: Microsart® e.jet connected to a 3-branch manifold with Microsart® Funnels 100

New pump for vacuum filtration in Microbiological Analysis
The Microsart® e.jet is a laboratory vacuum pump which creates vacuum and concomitantly transfers the filtered liquid to waste. The Microsart® e.jet is ideal for sample preparation in microbiological analysis achieving a trans membrane pressure of 600 mbar and a flow rate of 4.0 Nl/min (4.0 Normliters water displacement by air in one minute). Constant flow rates and a defined maximum vacuum guarantees a smooth and reliable filtration.

Reduced operating complexity
Until now vacuum equipment for the Membrane Filtration Method consists of numerous parts including connectors, tubes, vacuum containers, protection filter, Woulff's bottle and a vacuum pump. After several samples the vacuum must be broken to empty the filtrate collection container. The complete traditional equipment requires far more laboratory space and is time consuming to operate and maintain. The new Microsart® e.jet greatly reduces operating complexity.

Smart design fits any laboratory environment
The Microsart® e.jet pump is an ideal accessory for 3-branch and 1-branch manifolds. Compared to traditional equipment, the Microsart® e. jet and stainless steel manifold require only 30% of the average space, which translates to less congestion when working in laminar flow cabinets.

Safe operation | Maintenance-free
Traditional vacuum pumps often lose their efficiency and capability to generate sufficient vacuum, when liquid is drawn into the pump head. The Microsart® e.jet is designed to pump both gas and liquids, meaning no loss of efficiency or malfunction from water drawn into the pump head.

Building-up the vacuum filtration system is easy and fast thanks to the innovative Quick Connections. The Microsart® e.jet Transfer Pump is equipped with Quick Connection Nipples assembled to Quick Connection Couplings on hose nipples for DN 10 tubings. Simply push-to-connect for assembling and pull-to-disassembling the whole sytem within seconds. The Quick Connections are non-shut-off.

Technical Specification

Flow rate	> 4.0 Nl/min
Max. Vacuum	0.4 bar
Max. Pressure	1.0 bar
Materials (contact with filtrate)	PTFE, ETFE, Polypropylene, EPDM, POM, PSU
Mains	100-230 V | 50-60 Hz
Weight Pump Power supply	 1,425.3 g 202.8 g
Dimensions (W × L × H)	12 × 17 × 19 cm
Max. ambient temp.	+5...+40°C
Max. temp. of liquid	+5...+80°C
Max. viscosity	< 150 cSt*
Protection type	IP 64
Protection class	III
Inlet | Outlet	Quick Connection on hose nipples for DN 10 tubings

Ordering Information

Order Number	Description
166MP-4	Microsart® e.jet Transfer Pump

Spare Parts

Order Number	Description
1EP---0003	Pump head complete for 166MP-4
1EE---0007	Power supply complete for 166MP-4
1EAS--0027	2 Quick Connection Couplings (PSU) and 2 Nipples (POM)

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