INTEGRA

VACUSIP Liquid waste gone in a sip

VACUSIP

Bench-top aspiration system

Aspiration of supernatants after centrifugation steps and removal of washing solutions from microtiter plates are examples of common laboratory applications.

Until now, liquid waste disposal has been mainly accomplished by self-made systems consisting of a trap flask, a rudimentary aspiration tool and an external vacuum source. However, there are major limitations in convenience, safety and efficiency with these systems. The different parts need to be assembled individually, the handling is cumbersome and the risk of contaminating the house vacuum system is considerable.

VACUSIP offers the convenient and affordable solution for bench-top liquid waste disposal. It is a compact and ready-to-use vacuum aspiration system with an integrated vacuum pump. VACUSIP is completely independent from external vacuum sources and with the long-life battery also fully mobile.

The most comfortable bench top aspiration system

- The VACUSIP is an out of the box solution. No installation or additional equipment is required for immediate use. Operating the VACUSIP is straight forward.
- The integrated pump runs silently and stops automatically when the vacuum is established. This prevents unnecessary pump operation and further reduces noise.
- Changing a filled collection bottle of VACUSIP is clean and convenient. Simply unscrew the green lid and attach an empty glass bottle or a plastic bottle for direct disposal.

Portable and space saving

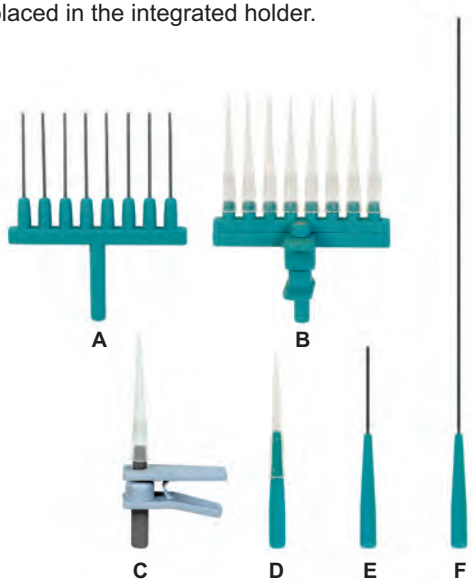
- VACUSIP is small, compact and fits on every bench.
- Due to its independence from an external vacuum source or power supply, it can be relocated wherever needed.
- When working in a safety cabinet, only a minimum of tubing and cable is desirable. Due to the rechargeable battery in VACUSIP, a power supply cable is not needed.

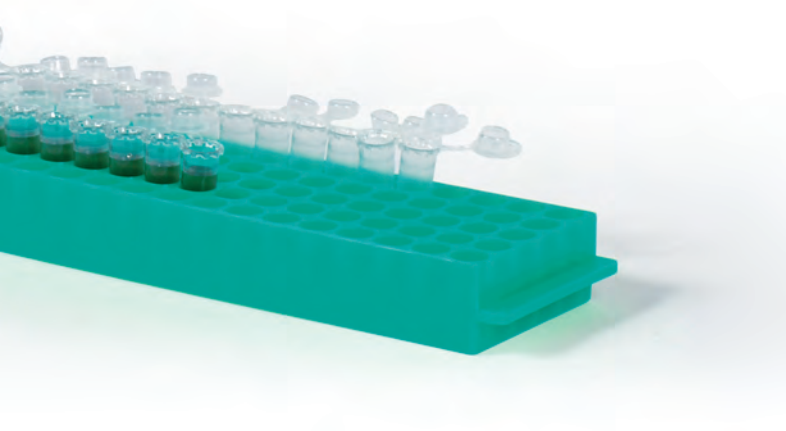
Safety in mind

- A hydrophobic filter protects the unit from damage and contamination by aerosols and liquids.
- For easy decontamination, all parts that come in contact with liquids can be autoclaved.

A handy tool for all aspiration tasks

- The silicone hand operator allows regulation of the liquid flow by applying varying finger pressure.
- Different adapters are available to match a multitude of laboratory containers.
- To keep the workspace clean and organized, the hand operator can be placed in the integrated holder.





Wide range of applications

VACUSIP is an ideal solution for the aspiration of small volumes of liquids up to 10 ml. Whenever supernatant or excess liquids need to be disposed, the VACUSIP makes short work of the process.

Applications may include aspiration and removal of:

- Small volumes of liquid out of microcentrifuge tubes or microtiter plates.
- Supernatants after centrifugation steps (e.g. RNA/DNA extraction).
- Washing solutions in Western blots and ELISA.
- Remaining quantities of reagents.
- Buffers of Western blot strips.
- Excess liquid from object slides and Petri dishes.
- Bacterial solutions.
- Cell staining solutions.

Technical data

Vacuum range	-250 mbar ±20 %
Flow rate (liquid)	2.3 ml/s (with stainless steel tip 40 mm)
Dimensions (HxWxD)	125x120x162 mm Height with bottle and aspiration device: 345 mm
Weight	500 g (without bottle)
Battery (model 159 000)	Li-Ion
Autonomy with battery	5 days when aspirating 1 h per day
Filter	0.45 µm hydrophobic filter
Bottle	Borosilicate, GL 45 thread, 500 ml

Aspiration of supernatants

Removal of washing solutions

Aspiration from Western blot strips

Removal of excess liquid from object slides

Supernatant removal to harvest bacteria

Removal of culture media

Ordering information

Instrument		Part No.
VACUSIP	Aspiration system complete with borosilicate bottle with standard lid (GL45), green lid with tube fittings, silicone hand operator (incl. 1- and 8-channel stainless steel tips and 1-channel adapter for standard tips/GRIPTIPS), silicone tubing (1.2 m and 0.22 m), filter, mains adapter	
	With rechargeable battery	159 000
	Without battery	159 010

Accessories			Part No.
Adapter	1-channel stainless steel tip 40 mm	**E**	155502
	1-channel stainless steel tip 280 mm	**F**	155525
	8-channel stainless steel tips 40 mm	**A**	155503
	1-channel adapter for standard tips/GRIPTIPS (Pack of 5)	**D**	159023
	1-channel adapter with ejector for standard tips	**C**	159026
	8-channel adapter with ejector for standard tips	**B**	159024
	1-channel adapter with ejector for GRIPTIPS	**C**	159027
	8-channel adapter with ejector for GRIPTIPS	**B**	159025
Mains adapter (100 – 240 VAC, 50/60 Hz)	EU		156631
	US		156630
	JP		156634
	UK		156632
	AU		156633

Consumables		Part No.
Filter	For protection of the pump, non sterile, 0.45 µm	153016
Tubing	Silicone, 3mm ID, 2.5 m	171023
	Silicone, 3mm ID, 25 m bulk roll	171033
Tubing set VACUSIP	Consists of: VACUSIP hand operator, silicone tubing (1.2 m and 0.22 m), 1 filter (non sterile, 0.45 µm)	159040
Bottle	INTEGRA borosilicate bottle with standard GL 45 blue lid, 500 ml	159031
	Single-use PP bottle with standard GL 45 lid, 500 ml (Pack of 10)	159032
	Green lid GL 45 with tube fittings (Pack of 2)	159035
Hand operator VACUSIP	To operate VACUSIP and attach adapters, Silicone	159020

CE
Swiss made

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