

INTEGRA



VACUSAFE

Safe Aspiration System
For The Disposal Of Liquids



Easy to use

for fast and reliable
aspiration of liquids

Standalone

and self-contained device
enhances lab safety

Versatile

instrument with adapters to
fit all experimental needs

USER-FRIENDLY SYSTEM FOR SAFE ASPIRATION

Built-in liquid level detection (optional) reduces the risk of overfilling the bottle, providing added security.

Optional self-closing coupling speeds up bottle exchange and keeps the system closed for enhanced operational safety.

The integrated pump switches off automatically when the set vacuum has been established inside the bottle, avoiding unnecessary noise and extending the pump's lifetime.

The noise of the integrated pump is well below 65 dB(A), the level recommended by the European Agency for Safety and Health at Work.

Stand securely holds the bottle in place.

Straightforward operation – simply switch on, set the desired vacuum and start working.



VACUSAFE

Productive aspiration

Vacuum systems are widely used for the aspiration and disposal of liquid waste, for instance, when removing media from cell cultures, supernatant after centrifugation, and wash solutions from immunoassay well plates.

The aspiration of waste liquids is a routine yet time-consuming task. The user-friendly **VACUSAFE** system streamlines this repetitive workflow, freeing up lab personnel to perform other vital tasks. It also provides a secure alternative to do-it-yourself liquid waste disposal systems typically found in laboratories, protecting operators from exposure to liquids and aerosols for a safer working environment. The system additionally features optional liquid level detection to prevent overfilling, and a filter to protect the vacuum source from contamination.

The all-in-one **VACUSAFE** aspiration system includes all the components necessary for operation. Several types of consumables and spare parts are available from the same source for added convenience.

💡 Did you know?

A versatile device for all liquid aspiration tasks

Two **VACUBOY** handheld aspiration tools can be simultaneously connected to one **VACUSAFE** device, enabling 2 users to perform aspirations side by side in the same biosafety cabinet. This feature provides added flexibility and helps to increase lab productivity.



Successful vacuum aspiration depends on using the appropriate aspirator adapter for the source vessel, and applying the correct vacuum strength.

The **VACUBOY** hand operator can be fitted with different adapters to enable the aspiration of liquids from virtually any laboratory vessel, further contributing to the versatility of the **VACUSAFE** system.

The residual suction level of the **VACUBOY** can also be adjusted to prevent waste liquids from dripping from the tip or pipet, enhancing workflow safety.



VACUBOY adapter for T flasks and aspiration pipets



Multichannel VACUBOY adapter for aspiration of liquids from a plate



Safety first: protect yourself and the lab

The **VACUSAFE** product range offers different levels of safety depending on the requirements of specific applications. Basic safety characteristics that apply to all models include:

- Hydrophobic filter for vacuum source protection
- Stand for securely holding the bottle in place to prevent spills
- System components in direct contact with liquid are autoclavable
- Integrated pump with vacuum control eliminates the risk of contaminating in-house vacuum pipelines, reducing the lab's environmental impact

The best choice for the total containment of hazardous liquids is a closed system with the following additional safety features:

- Self-closing quick coupling prevents droplets and aerosols from leaking as a result of poorly connected bottle and tubing
- Liquid level sensor detects when the bottle is full in order to prevent overfilling and spillage






Bottle handle for safe transportation



Did you know?

Vacuum strength can be modified depending on your specific experimental needs. This makes the **VACUSAFE** suitable for numerous applications, ranging from the gentle removal of supernatant from a centrifuge tube or 96 well plate, to the rapid emptying of large culture flasks.

VACUSAFE product range


Part no.	158320	158310	158300
Features common to all models: <ul style="list-style-type: none"> Autoclavable waste collection bottle Hydrophobic filter for protection against overflow of liquid and escape of aerosols Autoclavable VACUBOY aspiration tool with different adapters and tubing Vacuum control for noise reduction and extended pump lifetime 			
Electronic liquid level detection for prevention of liquid overflow		✓	✓
Autoclavable bottle and lid with self-closing quick couplings and tubing for full containment of biohazardous liquids		✓	✓
4 l polypropylene bottle, intended for chemical inactivation	✓	✓	
2 l glass bottle, intended for fast autoclaving (20 min at 121 °C)			✓
2 l glass bottle adapter for base unit			✓

Technical data

Vacuum range	-300 to -600 mbar (adjustable)
Pump flow rate	8 l/min (air)
Liquid aspiration rate	17 ml/s (aspiration pipet)
Noise emission	<50 dB(A) at 1 m
Dimensions (H x W x D)	53 x 18 x 32 cm
Weight	3.4 kg
Input voltage	100-240 VAC, 50/60 Hz

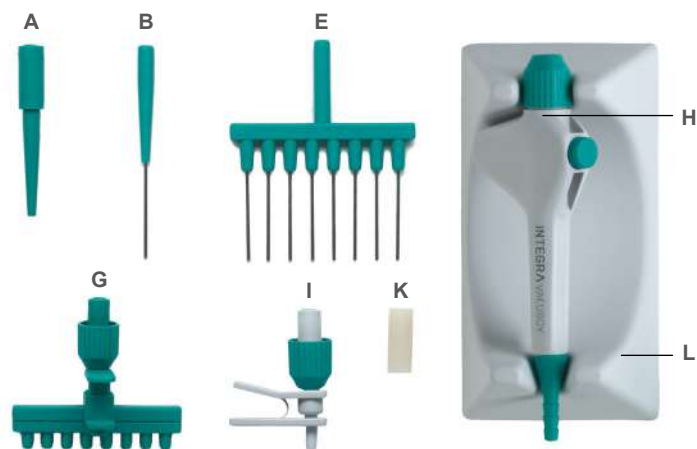


Ordering information

Instrument		Part no.
VACUSAFE		
 <div> <div>158300</div> <div>158310</div> <div>158320</div> </div>	Complete aspiration system with integrated vacuum pump, collection bottle with closed lid, bottle handle (158310 and 158320 only), tubing, hydrophobic filter, mains adapter and VACUBOY hand operator (155510)	
	<ul style="list-style-type: none"> 2 l glass bottle Liquid level detection and lid with self-closing quick couplings (PVDF) 2 l glass bottle adapter for base unit 	158300
	<ul style="list-style-type: none"> 4 l bottle with polypropylene bottle Liquid level detection and lid with self-closing quick couplings (PVDF) 	158310
	<ul style="list-style-type: none"> 4 l bottle with polypropylene bottle Lid with barbed tube fittings 	158320
VACUSAFE accessories		Part no.
Bottle	Bottle, 4 l, polypropylene, with closed lid	158370
	Bottle, 2 l, glass, with closed lid	158483
Lid	Lid for 4 l polypropylene bottle, with quick couplings and liquid level detection	158401
	Lid for 4 l polypropylene bottle, with barbed tube fittings	158372
	Lid for 2 l glass bottle, with quick coupling and level detection	158484
Bottle and lid	Bottle set, 4 l, polypropylene, quick couplings, liquid level detection (# 158370, 158401)	158431
	Bottle set, 4 l, polypropylene, barbed tube fittings (# 158370, 158372)	158432
	Bottle set, 2 l, glass, quick couplings, liquid level detection (# 158483, 158484, 158631)	158485
Level sensor cable	Cable for liquid level detection sensor	158403
Level sensor part	Liquid level sensor for 2 l glass bottle lid	158402
	Handle for VACUSAFE bottles, removable	158625
	Bottle stand for 4 l polypropylene bottle	158630
	Adapter for 2 l glass bottle	158631
	Stand for PIPETBOY and VACUBOY	155065
Mains adapter for VACUSAFE	100-240 VAC, 50/60 Hz	158395
	Air outlet connector for VACUSAFE	158427
VACUSAFE consumables		Part no.
Tubing	Silicone tubing, Ø 8 mm, 1.8 m, VACUBOY to bottle, transparent	158332
	Silicone tubing, Ø 8 mm, 70 cm, instrument to bottle, blue	158331
Filter	Filter Ø 54.5 mm, pore size 0.45 µm, non-sterile, 1 piece	158015
	Filter Ø 54.5 mm, pore size 0.2 µm, non-sterile, 1 piece	158020
Tubing set with filter	Tubing set for VACUSAFE (# 158015, tubing Ø 8 mm)	158342
Gasket	Gasket for 2 l glass bottle lids	158409
	Gasket for 4 l polypropylene bottle lids	158410

VACUBOY

The **VACUBOY** vacuum aspiration tool has been specifically designed to be compatible with diverse labware formats. Different adapters fit on the hand operator so that your vacuum source is converted into a flexible system for aspirating liquids from tubes, dishes, bottles, T flasks, and 24 well and 96 well plates.



Vacuum regulation by a touch-sensitive button for controlled and smooth aspiration of liquids.

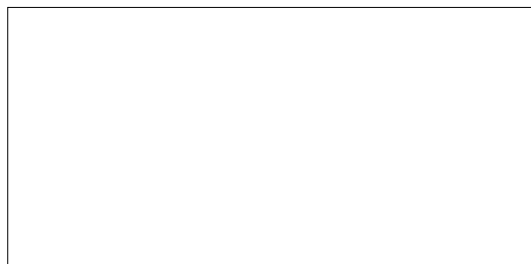
A large choice of adapters enables **VACUBOY** to handle liquids from virtually any laboratory container.

The hand piece, the core element of **VACUBOY**, is simply connected to any available vacuum source using silicone tubing and fitted with one of the different aspiration adapters.



Ordering information

Instrument			Part no.
VACUBOY hand operator (included with the VACUSAFE)	VACUBOY hand operator set, small (incl. # 155502, 155505, 155526)		155510
	• hand piece (for holding adapter or pipets)	H	
	• rubber adapter for Pasteur pipets	K	
	• 1 channel stainless steel adapter 40 mm	B	
	• 1 channel adapter for disposable tips with ejector	I	
VACUBOY hand operator set	VACUBOY hand operator set, large (incl. # 155502, 155503, 155504, 155505, 155520, 155526) parts L, E, A, G (see picture and accessories) and silicone tubing (length 180 cm)		155500
VACUBOY accessories			Part no.
Adapters	Adapter, for Pasteur pipettes, rubber, VACUBOY only	K	155505
	Adapter, 1 channel, 40 mm, stainless steel	B	155502
	Adapter, 1 channel, 150 mm, stainless steel		155522
	Adapter, 1 channel, 280 mm, stainless steel		155525
	Adapter, 1 channel, with locking for tips/GRIPTIPS®, plastic, VACUBOY only	A	155504
	Adapter, 1 channel, for tips/GRIPTIPS, plastic, pack of 5		159023
	Adapter, 1 channel, with ejector and locking for tips, plastic, VACUBOY only		155526
	Adapter, 1 channel, with ejector for tips, plastic	I	159026
	Adapter, 1 channel, with ejector for GRIPTIPS, plastic		159027
	Adapter, 4 channel, 40 mm, stainless steel		155524
	Adapter, 8 channel, 40 mm, stainless steel	E	155503
	Adapter, 8 channel, with ejector and locking for tips, plastic	G	155520
	Adapter, 8 channel, with ejector for tips, plastic		159024
	Adapter, 8 channel, with ejector for GRIPTIPS, plastic		159025
Stand for hand operator	Stand for VACUBOY hand operator	L	155501



Contact us:

