

# SAFE ASPIRATION STATION & KIT



## SPECIFICATIONS

The Safe Aspiration Station is a stand-alone motorized vacuum unit for liquid waste disposal. Associated with the Safe Aspiration Kit, which offers various accessories, the station ensures an adjustable aspiration level for quick collection and safe disposal of contaminated or hazardous liquids from various kinds of vessels.

Its compact design makes it easy to use on a bench or in laminar flow cabinets and guarantees a safe and contamination-free environment.

## APPLICATIONS

The Safe Aspiration Station and Safe Aspiration Kit are recommended for cell culture, immunology, molecular biology, chromatography, chemistry, microbiology, etc.:

- Cell culture: culture transfer and media aspiration
- Immunology media for ELISA
- Elimination of liquids from RNA/DNA extraction or cell lysis
- Elimination of solvents from PCR, HPLC, and electrophoresis
- Disposal in biochemistry labs: radioactive/X-ray-related chemicals, unused lab reagents etc.

The use of the Safe Aspiration Station and Kit can also have a positive impact on waste management. They are complementary tools for the implementation of safety protocols and Standard Operating Procedures (SOPs) in research laboratories, academia, or industries.

## FEATURES

### Safe and contamination-free:

- Level detection system with sensors to prevent liquid overflow
- Closed unit, bottle lid with safe and quick couplings for each tubing
- Hydrophobic membrane filter to prevent the liquids and aerosols from entering the main unit
- 4L polypropylene bottle and all parts in contact with liquids fully autoclavable
- Air release valve on the bottle lid to release the vacuum before autoclaving

### Adaptable:

- Vacuum level from -300 to -600 mbar adjusted by a knob and indicated by a board of LEDs
- Set of adapters for aspirating liquids from a wide range of vessels which is outlined in the chart below

ADAPTER	INCLUDED IN THE SAFE ASPIRATION STATION	INCLUDED IN THE SAFE ASPIRATION KIT
Silicon Adapter for Pasteur Pipette	✓	✓
Single-Channel Plastic Tip Adapter with Ejector	✓	✓
8-Channel Plastic Tip Adapter with Ejector	-	✓
8-Channel Stainless Steel Needle Adapter	-	✓
Four Single-Channel Stainless Steel Needle Adapters (various sizes)	-	✓



### Convenient:

- Ergonomic and comfortable hand operator
- Easy aspiration with the button on the top of the hand operator – unit always ready to use
- Metal lever enables to lock the aspiration button for continuous aspiration
- Compact design for easy use on a bench or in laminar flow cabinets
- Robust metallic handle screwed on the neck of the bottle for storing the hand operator or carrying the bottle
- Stand provided in the kit with storing gaps for the adapters and the hand operator
- Reduced noise < 50 dB(A) at 1 meter
- No specific maintenance or service is necessary

### SPECIFICATIONS

SAFE ASPIRATION STATION	
Dimensions (W x D x H)	53 x 18 x 32 cm (21 x 7 x 13 in.)
Weight	3.4 kg
Aspiration speed	8 L/min (air)
Aspiration rate	17 mL/s (with a Pasteur aspiration pipette)
Vacuum range	-300 to -600 mbar (adjustable)
Noise	< 50 dB(A) at 1 meter
Voltage	100–240 VAC, 50/60 Hz
Warranty	12 months



safe aspiration **STATION**

### MATERIALS AND CHEMICAL RESISTANCE

The table below lists all components that could be in contact with the aspirated liquids, aerosols, and vapors. The resistance of these parts to a few chemicals commonly used in laboratories is described qualitatively. Additionally, the resistance of external parts that could possibly be in contact with spilled liquids or cleaning agents is also described.

**NOTE** The rating relates to the chemicals in their concentrated form and that diluted chemicals have generally an attenuated effect.

RESISTANCE RATINGS		EFFECT
<b>A</b>	Excellent	-
<b>B</b>	Good	Minor effect: slight corrosion or discoloration
<b>C</b>	Fair	Moderate effect: not recommended for continuous use (softening, loss of strength, and swelling may occur)
<b>D</b>	Poor	Severe effect: not recommended
<b>N/A</b>	Information Not Available	-



# safe aspiration STATION



Bleach, e.g. NaClO	Ethanol	Hydrochloric acid	Sodium hydroxide	Acetone	DMSO	Trichloroethylene	Chloroform	Phenol
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COMPONENTS		MATERIALS	RESISTANCE RATINGS								
Tubings <b>1 2</b>	Ø 6 mm (Int.) Ø 10 mm (Ext.)	Silicone	A	A	C	C	C	A	B	B	C
Bottle <b>3</b> Lid <b>4</b>	Bottle + Lid	Polypropylene	A	A	A	A	A	A	A	A	A
	Lid seal	Silicone	A	A	C	C	C	A	B	B	C
	Couplings	PVDF	A	A	A	C	C	C	A	A	A
	Couplings O-ring	NBR	C	A	C	C	C	C	B	B	C
	Couplings spring	Stainless steel	B	A	C	B	A	A	C	C	A
Filter <b>5</b>	Membrane	PTFE	A	A	A	A	A	A	A	A	A
	Housing	Polypropylene	A	A	A	A	A	A	A	A	A
Station	External housing <b>6</b>	ABS	A	A	C	A	A	A	N/A	N/A	A
	Switch <b>7</b>	Polyamide	A	A	A	A	A	A	A	A	A
Aspiration <b>8</b> Hand Operator (provided with the station)	Plastic parts	Polyoxymethylene (POM)	C	A	C	B	B	B	B	C	C
	Seal o-ring	Fluorocarbon Elastomers (FKM)	A	B	B	B	D	C	A	A	A
	Silicon adapter for Paster pipette and other adapters	Silicon	A	A	C	C	C	A	B	B	C
	Lever for continuous aspiration	Stainless steel	B	A	C	B	A	A	C	C	A

PARTS IN CONTACT WITH LIQUID OR VAPORS

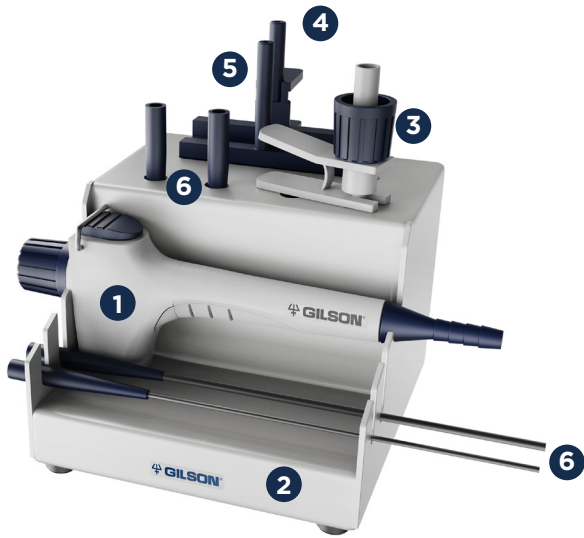
EXTERNAL PARTS

For further information, please contact your local Gilson Service Center.



# safe aspiration

KIT



Bleach, e.g. NaClO	Ethanol	Hydrochloric	Sodium hydroxide	Acetone	DMSO	Trichloroethylene	Chloroform	Phenol
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COMPONENTS		MATERIALS	RESISTANCE RATINGS								
Aspiration Hand Operator <b>1</b>	Plastic parts	Polyoxymethylene (POM)	C	A	C	B	B	B	B	C	C
	Seal o-ring	Fluorocarbon Elastomers (FKM)	A	B	B	B	D	C	A	A	A
	Silicon adapter for Paster pipette and other adapters	Silicon	A	A	C	C	C	A	B	B	C
	Lever for continuous aspiration	Stainless Steel	B	A	C	B	A	A	C	C	A
Adapters	1-channel plastic tip adapter with ejector <b>3</b>	Polyoxymethylene (POM)	C	A	C	B	B	B	B	C	C
	8-channel plastic tip adapter with ejector <b>4</b>	Polyoxymethylene (POM)	C	A	C	B	B	B	B	C	C
	1-channel needle (various sizes) <b>6</b>	Needle: Stainless Steel	B	A	C	B	A	A	C	C	A
		Plastic part: Polyoxymethylene (POM)	C	A	C	B	B	B	B	C	C
	8-channel needle <b>5</b>	Needle: Stainless Steel	B	A	C	B	A	A	C	C	A
Plastic part: Polyoxymethylene (POM)		C	A	C	B	B	B	B	C	C	
Stand for Hand Operator <b>2</b>	-	Steel coated with Polyester	A	A	B	B	B	A	C	D	D

PARTS IN CONTACT WITH LIQUID OR VAPORS

EXTERNAL PARTS



## ORDERING INFORMATION

DESCRIPTION	PART NUMBER
<b>SAFE ASPIRATION STATION</b>	
Safe Aspiration Station, EU Plug	F110744
Safe Aspiration Station, US Plug	F110745
Safe Aspiration Station, UK Plug	F110746
Safe Aspiration Station, AU Plug	F110747
Safe Aspiration Station, JP Plug	F110748
Safe Aspiration Station, CN Plug	F110749
<b>SAFE ASPIRATION KIT</b>	
Safe Aspiration Kit	F110760

## ACCESSORIES & SPARE PARTS

DESCRIPTION	PART NUMBER
Bottle Handle for Aspiration Station	F1077430
AC Adapter for Aspiration Station-EU	F1077431
AC Adapter for Aspiration Station-US	F1077432
AC Adapter for Aspiration Station-UK	F1077433
AC Adapter for Aspiration Station-AU	F1077434
AC Adapter for Aspiration Station-JP	F1077435
AC Adapter for Aspiration Station-CN	F1077436
4L PP Bottle for Aspiration Station	F1077437
Lid for Aspiration Station Bottle	F1077438
Sensor Cable for Aspiration Station	F1077439
Membrane Filter for Aspiration Station	F1077440
Tubing 800 mm for Aspiration Station	F1077441
Tubing 1500 mm for Aspiration Station	F1077442
Connector for Tubing 1500 mm-Operator Side	F1077443
Connector for Tubing 800 mm-Station Side	F1077444
Y Connector for Two Hand Operators	F1077445
Tube Fitting for Filter or Y Connector	F1077446



## REGULATORY COMPLIANCE

The Safe Aspiration Station structure conforms to the following safety standards:



### EU Directives

- Low voltage equipment: **2014/35/EU**
- Electromagnetic compatibility: **2014/30/EU**
- Restriction of hazardous substances: **2011/65/EU**

### Standards for EU

- Safety requirements for electrical equipment for measurement, control, and laboratory use — General requirements: **EN61010-1: 2010**
- Electrical equipment for measurement, control, and laboratory use — EMC requirements: **EN61326-1: 2013**

### Standards for UK

- Electromagnetic compatibility, Regulation 2016 (S.I. 2016/1091), **BS EN Standard 61326-1 : 2013**
- Electrical Equipment designed for use within certain voltage limits in support of the Electrical Equipment (Safety), Regulation 2016 (S.I. 2016/1101), **BS EN Standard 61010-1 : 2010**



### Standards for Canada and USA

- Safety requirements for electrical equipment for measurement, control, and laboratory use — General requirements: **CAN/CSA-C22.2 (1010-1)**
- Safety requirements for electrical equipment for measurement, control, and laboratory use — General requirements: **UL 3101-1**

## WARRANTY

Gilson warrants this Safe Aspiration Station and Safe Aspiration Kit against defects in material under normal use and service for **12 months** from the date of purchase. This warranty is valid only if the station and its components are used in the manner described in this guide and for the purpose for which it is designed.

Gilson is not responsible for consequential damages resulting from the misuse, bad cleaning, or decontamination of this instrument and its accessories.

Forced opening of the instrument and its accessories invalidate any warranty claim. Enclose with the returned instrument a description of the trouble that has occurred and specify which reagents were used.

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