

The logo consists of the letters 'MGE' in a bold, dark blue, sans-serif font. The letters are set against a white rectangular background. A thin, light blue curved line starts from the left edge of the white box and extends upwards and to the left, ending near the top left corner of the overall image. The background of the entire slide is a gradient from dark blue at the top to a lighter blue at the bottom, with a curved line separating the two shades.

**Manufacturers of the SAM range  
of Medical Suction Equipment**

**MGE**

# SAM 12 Suction Unit



[www.mgeworldwide.com](http://www.mgeworldwide.com)

## Overview



**SAM 12**

- Used as a general all round suction unit
- Compact Design with reliable continuous 24hr operation
- High vacuum, high flow performance
- Static and Mobile options available
- Fast, Efficient and Quiet aspiration delivered to the patient



**SAM 12 Mobile**

Easy-fit Mobile option can be fitted on order or supplied separately later

# Technical Specifications

## SAM 12

### GENERAL SUCTION UNIT

<b>Vacuum</b>	0 to 0.85 bar / 0 to 650 mmHg
<b>Flow rate</b>	30 l/min
<b>Collection Jars</b>	1 x 2 litre
<b>Unit Dimensions</b>	38 x 45 x 20 (H x W x D cm)
<b>Weight</b>	10kg
<b>Noise Level</b>	50dB
<b>Voltage</b>	230v +/- 10%~ 50/60Hz 110v +/- 5%~ 50/60Hz
<b>Complies with</b>	Medical Directive 93/42/EEC BS EN ISO 10079-1 BS EN 60601-1 BS EN 60601-1-2

## Key Components

Vacuum Gauge

On \ Off Switch

Vacuum Control

SAM 2 Reusable  
Collection Vessel



Contamination  
Defence Filter

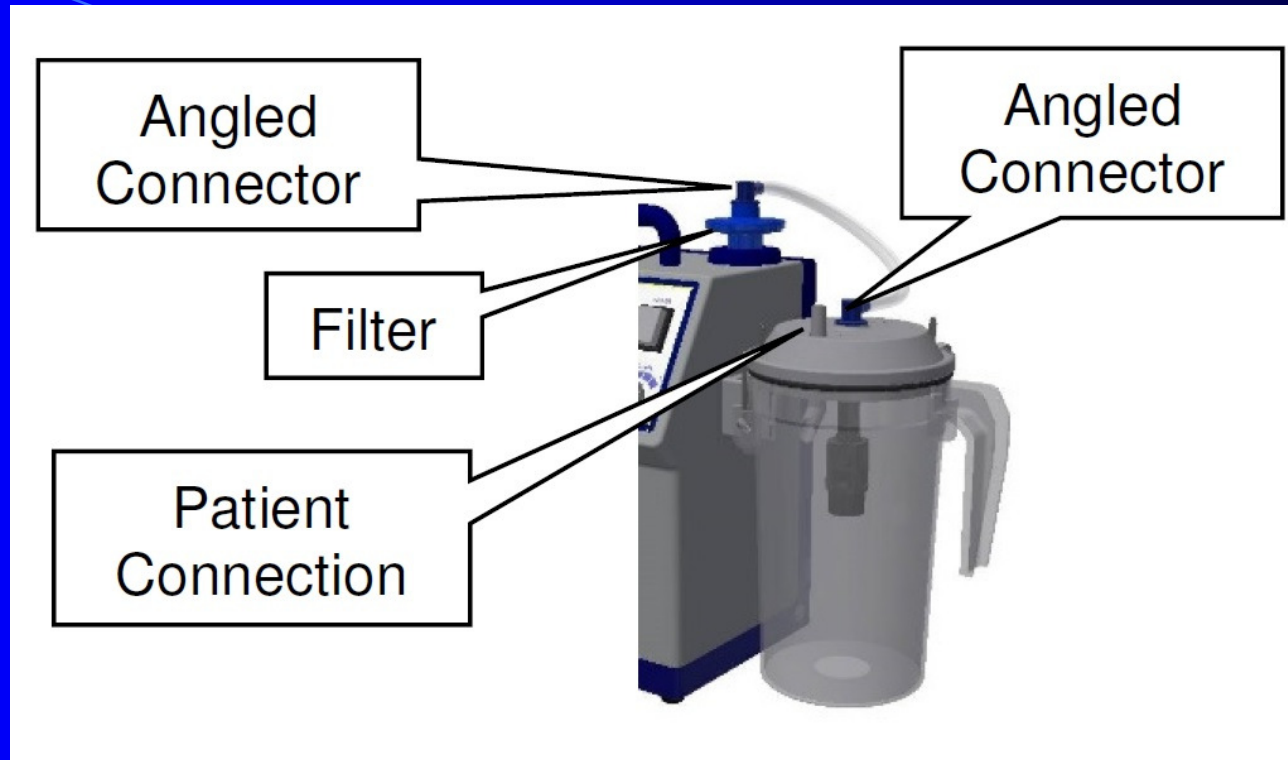
Collection Vessel  
Connection

Patient Tube  
Connection

# Checking the unit prior to use

- Inspect the unit to confirm it is clean.
- Check that the Contamination Defence Filter is clean and fit for use.
- Check unit external pipework is correctly connected.
- Ensure the unit is plugged in to an appropriate electrical power supply

# Check the pipe connections



# Setting the Vacuum Level

- Connect the Patient tube to the patient connection on the top of the SAM 2 collection vessel.
- Turn the unit on. The green on \ off button will illuminate and the pump will be heard running.
- Turn the vacuum control knob fully clockwise to set the unit to maximum vacuum.



# Setting the Vacuum Level - 2

- Occlude (Block) the patient tube and check the vacuum increases. It should reach at least 450mmHg within 10 seconds if the unit is performing correctly.  
NOTE : A good way to occlude the patient tube is to bend it in half tightly between your fingers
- With the Patient tube still occluded, turn the vacuum control knob anti-clockwise to reduce the vacuum reading on the gauge to the required level as per your training.
- Now the vacuum level is set, release the occlusion (Unblock it) and carry out the procedure in accordance with local guidelines ensuring you do not over fill the collection vessel.
- When finished turn off the unit.

# Cleaning \ Daily Maintenance

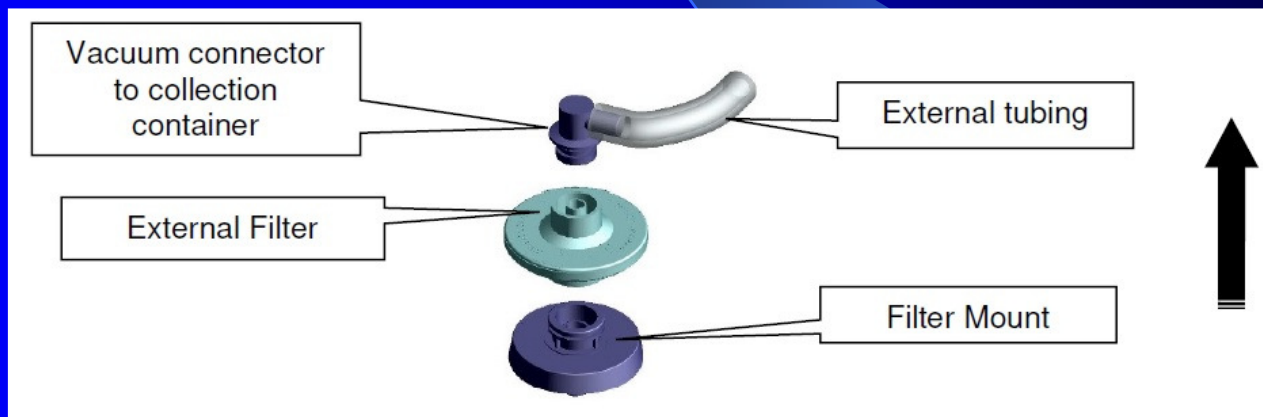
After each Use ;

- Remove the patient tube and Collection vessel. Dispose of the fluids as per your local instructions.
- Wipe the unit clean with a damp cloth using a mild disinfectant. The unit is not designed to be immersed in water
- Wash the collection vessel in a mild disinfectant solution. Do not leave it to soak though as this may damage the plastic.

NOTE : Do not use solvent based cleaning agents

# Daily Maintenance

- Examine all external tubing for aging, damage or contamination. Replace as necessary.
- Examine the collection container for damage. Replace as necessary.
- Examine the Contamination defense filter. Replace if contaminated or as per local infection control guidelines.



# Basic Troubleshooting

- The unit does not function when turned on  
Check the unit is plugged in and the green light illuminates on the On \ Off Switch. If it does, contact engineering for further assistance.
- The pump is running but there is no suction.  
Check the unit external pipework is correctly connected and not blocked.  
The internal Hydrophobic filter on the unit may be blocked.  
Contact engineering for further assistance.

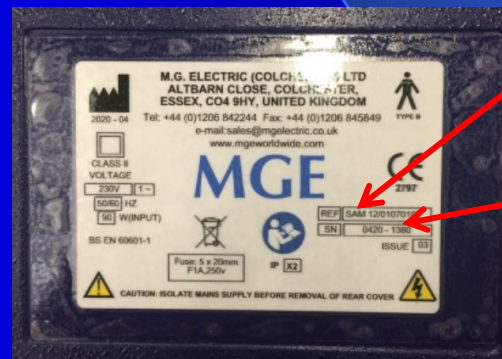
If in doubt as to the operation or safe working of the unit, contact your local support team to discuss your concerns before using.

## Troubleshooting Information

If contacting your support team for further assistance, it is suggested that you quote;

1. What the issue with the unit is.
2. The Model number of the unit.
3. The Serial Number of the unit.

NOTE : The Model and Serial numbers can be found on the ratings label on the rear of the unit.



## Accessories



Filters

All MGE Products are supported with a full range of accessories and spare parts



Tubing and yankers

Only genuine MGE filters and Spare parts should be used on SAM units.  
If they are not marked with MGE and SAM, they are not genuine parts!

**MGE**

**SAM**  
**Suction Units**

*THE NEXT LIFE THEY SAVE COULD BE YOURS*

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