

# SAM PORTABLE SUCTION

## DATA SHEET

A high tech, high quality emergency portable suction unit to meet the demands of medical personnel in hospitals, wards, ambulances and out in the field



### SAM e.p.s

#### MULTI-POWERED SUCTION

<b>Vacuum</b>	0 to 0.8 bar / 0 to 600 mmHg
<b>Flow rate</b>	Up to 32 l/min
<b>Voltage</b>	12-28V DC 100 - 240V AC
<b>Battery RunTime</b>	120 Minutes on Full Power Over 11Hours on low settings
<b>Recharge Time</b>	2 1/2 hours from flat
<b>Weight</b>	4.7kg (including SAM 1 cannister)
<b>Dimensions</b>	330 x 169 x 349 (mm) (L x D x H)
<b>Noise Level</b>	46dB at max, <30dB at min
<b>Protection</b>	Disp. Hydrophobic Filter (MSP1003) Optional BioCloak® Anti-bacterial coating
<b>Features</b>	Digital Display, Rotating Bottle, On-board Lighting, Service Indicator, Usage Datalogging, Splashproof (IP34D) Support for multiple disposable liner systems or a reusable collection bottle.
<b>Accessories</b>	<i>Included:</i> 1000cc bottle, Power Cables, Internal Charger, 1m Patient Tubing. <i>Extras:</i> Disposable Tube Packs Static and Powered Wall Brackets Protective Carry Cases
<b>Complies with</b>	Medical Directive 93/42/EEC BS EN ISO 10079-1 BS EN 60601-1 BS EN 60601-1-2



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The SAM e.p.s (Emergency Portable Suction) aspirator with optional BioCloak® technology offers a new benchmark in battery operated suction equipment. These lightweight units are ideal for use by emergency services and incorporate many new features including a high performance low energy pump, fast suction build up, onboard lighting, a unique rotating bottle system allowing the unit to be laid flat in difficult terrain and the option to include a new anti-bacterial coating to help in infection control. Fitted with an internal charger, they provide reliable performance both in and outside the hospital environment giving up to 120 minutes of full power continuous use between charges and up to 11 hours at lower suction levels.

Available in 2 versions, a standard version and a new specialist neonatal version with a 40mmHg lower vacuum level setting for medical procedures on new born babies.

The SAM e.p.s has been specifically designed following consultations with doctors, paramedics, resuscitation officers and other medical staff and is suitable for use in ambulances, general hospital wards, critical care units, clinics and out in the community.

# MGE

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The SAM e.p.s - Revolutionary in design

### Simple

A simple single knob with vacuum settings for typical adult and paediatric medical procedures controls the unit. And a bright clear 'easy-wipe' digital display indicates the vacuum level and battery status making operating the e.p.s straightforward even when wearing gloves or other protective equipment.

### Powerful

With over 60 years experience in pump technology, the e.p.s is fitted with MGE's newly designed specialist lightweight portable piston pump giving a maximum suction in excess of 550mm Hg and a flow rate above 30l/min. And at low vacuum levels the pump is whisper quiet to give minimal disturbance to the patient.

### Efficient

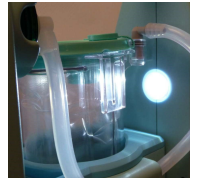
An efficient pump and an innovative power management system give the e.p.s an extended battery life of over 2 hours at maximum power with a single charge and in excess of 11 hours at lower settings.

### Versatile

There is no standard location for Emergency suction. A hospital bed, a wet hillside, a dark passenger car seat. Whatever the situation, the e.p.s has been designed to cope with its rugged lightweight design, splashproof casing, rotating bottle for uneven surfaces and even an on-board LED light to aid the operator in dark surroundings. Versatility also stretches to the collection container with support for MGE's 1 litre autoclavable bottle or a selection of the leading disposable liner systems from other manufacturers.

### Service and Cleaning Friendly

It's not just in operation that the e.p.s excels. For simple cleaning, the unit has a wipe down display and a removable bottle cradle. And to aid maintenance and support, there is a service indication light, an easy access battery for fast replacement and the ability to download usage data to assess how much the unit is actually being used.



Bright on-board LED light for low light situations



Simple battery replacement



Easy release Hydrophobic filter and 'softgrip' carry handle.



Cradle support for MGE reusable cannisters and various liner systems including Serres, Vacsax, Cardinal Health, FloVac, MTP and others.



Clear digital display with single large vacuum control knob



Internal onboard charger capable of running directly from AC and DC supplies.



Rotating bottle for stable positioning on uneven surfaces

### APPROXIMATE FREE AIR FLOW RATES AT DIFFERENT VACUUM SETTINGS

*40mm Hg	80mm Hg	*120mm Hg	200mm Hg	350mm Hg	500mm Hg	550+mm Hg
5.3 kPa	10.7 kPa	16.0 kPa	26.7 kPa	46.7 kPa	66.7 kPa	73.3 kPa
4 lt/min	9 lt/min	12 lt/min	16 lt/min	24 lt/min	31 lt/min	32 lt/min

\* 40mmHg setting only available on Neonatal version. 120mmHg setting only available on standard version.  
Note: All vacuum measurements are quoted at sea level. Flow rates taken at filter point on unit.