

SAM e.p.s. Portable Suction Unit

SPECIFICATION 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.



Features

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.



Supplied by:

SAM e.p.s. Portable Suction Unit CONTINUED

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



The SAM e.p.s – Revolutionary in design:



Simple battery replacement:



• Simple

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

• Powerful

Fitted with a newly designed specialist lightweight portable piston pump giving a maximum suction in excess of 550mm Hg and a flow rate above 30 l/min. At low vacuum levels the pump is whisper quiet to give minimal disturbance to the patient.

• Efficient

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

As there is no standard location for Emergency suction the e.p.s has been designed to cope anywhere, with its rugged lightweight design, splashproof casing, rotating bottle for uneven surfaces and an on-board LED light to aid in dark surroundings. The collection container is versatile with support for our standard 1 litre autoclavable bottle or a selection of the leading disposable liner systems from other manufacturers.

• Service and Cleaning Friendly

For simple cleaning, the unit has a wipe down display and a removable bottle cradle. 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.

Specification

Vacuum	0 to 0.8 bar / 0 to 600 mmHg
Flow rate	Up to 32 l/min
Voltage	12-28V DC, 100 - 240V AC
Battery RunTime	120 Minutes on Full Power Over 11 Hours on low settings
Recharge Time	2.5 hours from flat
Noise Level	46dB at max, <30dB at min
Protection	Disp. Hydrophobic Filter (MSP1003) Optional BioCloak® Anti-bacterial coating
Features	Digital Display, Rotating Bottle, On-board Lighting, Service Indicator, Usage Datalogging, Splashproof (IP34D), Support for multiple disposable liner systems or a reusable collection bottle.
Accessories Included:	1000cc bottle, Power Cables, Internal Charger, 1m Patient Tubing.
Extras:	Disposable Tube Packs, Static and Powered Wall Brackets, Protective Carry Cases
Complies with	Medical Directive 93/42/EEC, BS EN ISO 10079-1, BS EN 60601-1, BS EN 60601-1-2

Approximate Free air flow rates at different vacuum settings:

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

* 40mm Hg setting only available on Neonatal version. 120mm Hg setting only available on standard version.

Note: All vacuum measurements are quoted at sea level. Flow rates taken at filter point on unit.

Unit Dimensions and Weight

Weight (Inc. SAM 1 canister)	4.7Kg
Height	34.9cm
Depth	16.9cm
Width	33cm



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