

Filtration: Disposable Hydrophobic/Bacterial Filter, 99.9% effective against 0.6 micron particles.
 Indicator Gauge: 63 mm Diameter.
 Theatre High & Standard High: 0 to -100 kPa
 Low: 0 to -25 kPa
 Tolerance: +/- 5%

Performance

Theatre High Suction Models:

Range: 0 to 620mmHg (82 kPa)
 Free Air Flow rates: 40 to 45 Lpm

Standard High Suction Models:

Range: 0 to 620mmHg (82 kPa)
 Free Air Flow rates: 20 to 25 Lpm

Standard Low Suction Models:

Range: 0 to 150mmHg (20 kPa)
 Free Air Flow: 20 to 25 Lpm

Suction Jar (Oxylitre):

Capacity: 2000ml
 Overflow Protection: Float Valve Shut Off
 Sterilisation: Autoclaveable to 134 °C (see Doc-OP-4403)

10. Electrical Specification

Motor:	Standard High & Low Models	Theatre High Models
Standard Supply Voltage:	Enclosed/Fan Cooled	Enclosed/Fan Cooled
Fuse type:	230 Volts AC 60Hz	230 Volts AC 60Hz
Capacitor:	230 Volts AC (T) 1 amp	230 Volts AC (T) 2 amp
Electrical Protection, all models:	127 Watts.	170 Watts

Class 1
 Type B =



This Equipment provides a degree of protection against electric shock particularly regarding :-
 i) Allowable LEAKAGE CURRENT
 ii) Reliability of the protective earth connections

11. Dimensions

Single Unit:	Twin Unit:
Height: 840mm	Height: 840mm
Width: 400mm	Width: 400mm
Depth: 350mm	Depth: 350mm
Weight: 13.0kg	Weight: 13.2kg

12. GMDN

36777 General-purpose suction system, electric

44943 Suction system canister, reusable

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Doc Ref: Doc-OP-4611
 Issue No: 6.5 (DCN00796)
 Date: 06.03.2020



ESS Series Mobile Electrical Suction Unit

Operating & Safety Instructions



Made in the UK



1. Introduction

The Oxylitre ESS Series Mobile Suction unit has been designed for use within most types of Healthcare environments. Suction units are available in adjustable Theatre High Vacuum - High Flow, Standard High Vacuum - High Flow and Low Vacuum - High Flow models. The units come complete with a choice of single or twin, 2 litre capacity Jar(s) and the Jar type is available in either the Oxylitre reusable/Autoclaveable, Hospira "Receptal" , VacSax® or Serres disposable liner type units.

(Please Note: This product is not suitable for Field or Transport use).

2. Specifications

The Oxylitre ESS Series Mobile Suction unit complies with the BS EN ISO 10079-1: Medical suction equipment – Part 1: Electrically powered suction equipment – Safety requirements.

Electrical

The Suction unit is 230V AC mains operated. The product is a Class 1 Type B Electrical Medical Device and complies with EN 60601-1: Medical electrical equipment. General requirements for safety.

Hydrophobic/Bacterial Filtration

Each unit is fitted with a Hydrophobic/Bacterial Filter. The Filter Element is 99.99% effective that provides an effective barrier against contamination and protection to the environment. The Filter also protects the Suction unit by preventing any moisture or fluid passing through.

Overflow Protection

The Oxylitre Receiver Jar has a protective overflow Float Assembly. In the event of over filling the Receiver Jar whilst aspirating, the Float Valve assembly will automatically shut off the suction supply. This will prevent contamination to the Suction unit. In the event where an Overflow Protection device has failed the Hydrophobic Filter will chemically react and will shut off the Vacuum supply. In this event the mains supply to the Suction unit must be turned off immediately.

Hospira Receptal/VacSax®/Serres Receiver Jars

The Hospira, VacSax® and Serres Receiver Jars are for Disposable Liners only. Use only Disposable Liners with Hydrophobic Filters. Receiver Jars must be used in accordance with the manufacturer's instructions.

Please Note: Oxylitre Ltd cannot accept any liability in the event of an overflow to a unit when a Hospira "Receptal", VacSax® or Serres System is being used.

3. Safety Precautions (see also Transit Bolt Instructions Doc-OP-4612)

- Upon receipt of your new Mobile Suction unit, check for any damage, breakages or damaged tubing that may cause the unit to fail when operated. Remove the two Transit Bolts situated in base of unit and replace with plastic plugs provided (retain Transit Bolts for future use – see 4a below).
- Please avoid using the Suction unit near other types of electrical equipment which may be affected by or which radiates electromagnetic interferences.
- Do not use any flammable agents near the equipment.

Warning: Electrical Safety.

DO NOT remove or open any panels of the Electrical Suction unit for any reason. If the unit fails to operate you **MUST** contact the Oxylitre Service Department for service recommendations. The panels on the product must only be opened by an Oxylitre Service Engineer or by qualified personnel.

4. Transport & Storage

- During transportation (especially by Post or Carrier), you **MUST** ensure that the equipment is well packed and protected, with Transit Bolts in place. Oxylitre will not be liable for any damage to the equipment.
- Always handle this equipment with care. This is a vital piece of medical equipment.
- When transporting/storing this equipment always keep in an upright position.
- Always transport & store the equipment within in a dry environment. Keep away from excessive heat or dampness.

5. Operating Instructions

- Please Note: the equipment is NOT suitable for continuous drainage.**
- Before use, ensure that your new Suction unit's Rocker Switch is in the "OFF" position, before you plug the unit into the mains supply.
- Ensure the Receiver Jar "Float Assembly" is operational. (The Float should move up/down freely). Inspect all Receiver Jar components and accompanying Tubing for wear or damage. Always replace worn or damaged components.

- Connect the supplied Suction Connecting Tube to the "Patient" Inlet on the Receiver Jar Lid and then connect the required Catheter to the male end of the Suction Connection Tube. If required, place Anti-frothing agent into the Receiver Jar (please use any Anti-frothing agent in accordance to the manufacturers instructions).
- Insert the plug into the mains supply socket. Switch ON "O" the Green Rocker Switch to start the unit. The green neon switch will illuminate when the pump is running.
- Adjustment for the required suction is effective by the suction Control Valve. To increase the Suction, turn the Control Valve clockwise. To decrease the required suction, turn the Control Valve anti-clockwise. With the "Patient" Connector on the Jar Lid occluded, the Vacuum Gauge will give an accurate indication of the suction being applied.
- Aspiration should be stopped when fluid has reached the top graduation. In the event of an accidental overflow, the Float Valve will operate shutting off the vacuum supply to the Receiver Jar.
- When the Jar is full, pull out the male adapter probe from the top of the Jar Lid and unhook the Retaining Spring Clips. Remove the Jar carefully from out of the Cradle and dispose of the contents appropriately. Also unscrew the Float assembly from the base of the Jar Lid. Both the Float assembly and the Lid must be thoroughly cleaned. Re-assemble in the reverse order.

6. Additional Controls

Receiver Jar Changeover Valve (for ESS200 and ESS5200 Twin Jar Models only)

The ESS200 and ESS5200 Series Mobile Suction units have a Receiver Jar Changeover Valve mounted above the two Receiver Jars on the front of the unit. If one of the Jars is becoming full during aspiration, turn the Changeover Valve towards the empty Jar, to redirect the flow. That Jar is now ready for aspiration.

7. Servicing, Preventative Maintenance & Cleaning

- The Hydrophobic/Bacterial Filter should be changed after each normal days use, or immediately if wetted/contaminated.
- Decontaminate (or replace as necessary) the "Suction Connecting Tube" after each use.
- Use standard cleaning agents/detergents (e.g. Dettol) when cleaning the unit and Receiver Jar components.
N.B. All traces of cleaning agents must be removed before autoclaving the Jar.
- The Oxylitre Receiver Jar, Jar Lid, Sealing Ring, Float Assembly & Seal are autoclaveable to 134°C (see Doc-Op 4403).
- To ensure the quality and performance, this product should be inspected frequently (at least annually) by a Service Engineer/qualified Technician. A Major Service is recommended every 5 years. For service/repair enquiries and information, please contact our sales office.
- Each unit comes complete with a Manufacturer's 7 year Warranty.

Note: Do NOT use any alkaline or amine based agents on Receiver Jar components.

8. Replacement Parts

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|--|------------------------|
| a. Suction Tubing with Male Tapered Connector: | Ref: S75251 |
| b. Suction Tube: | Ref: VAC201 |
| c. Hydrophobic/Bacterial Filter: | Ref: S750 (Pack of 30) |
| d. Suction Connecting Tube 1.8 m: | Ref: 180FFM |
| e. Suction Jar Lid: | Ref: S7520 |
| f. Lid Sealing Ring: | Ref: S6190 |
| g. Float Assembly: | Ref: S7130 |
| h. Suction Jar: | Ref: S6100 |

Please Note: Always use Oxylitre replacements parts or CE marked products. (Also see "Oxylitre Jar Spare Parts List" on label attached to the Suction unit).

9. Technical Data

Specifications:

The ESS Series Mobile Electrical Suction unit has been designed in accordance with EN ISO 10079-1. Electrical Specifications comply with: EN 60601-1.

Suction Units

Equipment:	ESS Series Mobile Electrical Suction unit.
Types:	i. Theatre High Vacuum/High Flow.
	ii. High Vacuum/High Flow
	iii. Low Vacuum/High Flow.