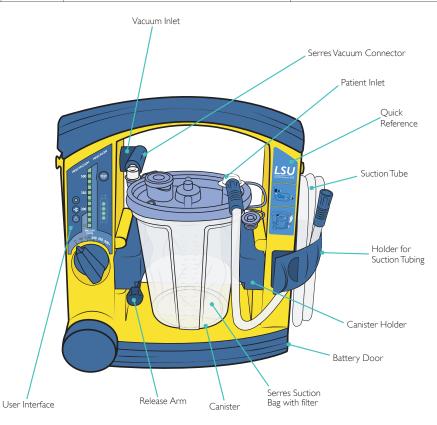


1	LEDs when charging	 < 75% capacity: the battery LEDs will be lit sequentially 75-80% capacity: 3 LEDs will be lit with the 4th flashing >80% capacity: all 4 LEDs will be lit Charging temperature should be 15°C to 25°C 			
2	LEDs during use	 LEDs displayed indicate battery capacity 1 LED flashing = 1 minute suction remaining Operating temperature is 0°C to 40°C single flashing LED may occur if unit is <12°C: this is not a correct indicator of battery function and will continue until >12°C 			
3	Disposable parts	 Disposable "Serres" 1 litre canister liner Flexible tubing Yankauer catheter ET Suction catheters 			
4	Power save	 The LSU will enter power save if vacuum >120 mmHg for >2 mins This can occur with the suction on and the Yankauer under the patient The power on indicator light will be slowly flashing Move the vacuum dial to any other setting to restore normal function 			
5	Red triangle	 A potential malfunction has been detected Turn the unit off then on - if it disappears, the unit can be used If it does not disappear after 3 attempts, unit requires service 			
6	Canister filter	 There is a hydrophilic filter on the underside of the canister liner lid The vacuum will shut off if the canister fills or if the unit falls over when partially full Replace the canister liner to restore suction 			
7	Liner change	 Press down the release arm at the left under the canister holder to mobilise the canister Remover the white inlet and cap the liner with the attached blue cap Perform an Operational Check after changing the liner (since the new liner needs sealed with vacuum not force) 			
8	Exhaust	 Is at the back on the right had side as you look at it Do not block - this will reduce the flow and damage the unit 			
9	Cleaning	Only use a damp cloth with mild detergent			



Operational Check								
1	Operational check	 Connect flexible tubing to inlet of canister liner Press and hold the Test button then turn the vacuum dial to 500+ When LED 2 is lit, release the test button and occlude the flexible tubing Keep tubing occluded until LED 1 comes on again 						
2	Operational check results	 Four test results are displayed through the vacuum indicator The LED lit up corresponds to each of these results Press the Test button to move to the next result 						
	Test	LED	Vacuum indicator to pass	Action if fails test				
	Occlusions	1	<100	Check for twisted tubing etc				
	Vacuum build up	2	>300					
	Max vacuum	3	>500	Check connectors, canister and for any leakage				
	Leak	4	>450					





1. Version History					
Reference Number	EG005				
Version	1				
	Stephen McGloin	Medical physics	ScotSTAR		
Writing group	Graham Percival	General Manager	ScotSTAR		
(Chair in bold)	Richard Price	Consultant	EMRS		
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Date issued	16th January 2018				
	ScotSTAR	EMRS	✓		
		Paediatric	✓		
		Neonatal	✓		
	Referring centres via service websites		X		
2. Distribution	BASICS Scotland		✓		
2. Distribution	Medic 1		✓		
	Tayside Trauma Team	✓			
	Grampian (GHEMS)		✓		
	Rural GPs Association of Scotland		✓		
	SAS Air Ambulance Division		✓		















3. Scope and purpose

Overall objectives:

The Laerdal Suction Unit is a battery powered portable suction unit used in prehospital care. This guideline is aimed as a cognitive aid to routine checking and basic troubleshooting. The manual can be found here:

http://cdn.laerdal.com/downloads/f2538/laerdal_suction_unit___ie_

Statement of intent:

This guideline is not intended to be construed or to serve as a standard of care. Adherence to guideline recommendations will not ensure a successful outcome in every case, nor should they be construed as including all proper methods of care or excluding other acceptable methods of care aimed at the same results. The ultimate judgement must be made by the appropriate healthcare professional(s) responsible for clinical decisions regarding a particular clinical procedure or treatment plan.

Equality Impact Assessment:

Applied to the ScotSTAR Clinical Standards group processes.