

LSU

Advanced Airway Solution

Important Product Information



Read these instructions thoroughly. Observe all warnings, cautions and instructions in the User Guide and in this Important Product Information booklet. Retain this booklet for future reference.

Warnings and Cautions

A Warning states a condition, hazard, or unsafe practice that can result in serious personal injury or death.

A Caution states a condition, hazard, or unsafe practice that can result in minor personal injury or damage to the product.

Notes

A note states important information about the product or its operation.









Warnings

- *The LSU for LAAS is part of the LAAS kit and meant for training only.*
- *The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of the LSU for LAAS as replacement parts for internal components, may result in increased emission or decreased immunity of the LSU for LAAS.*

Note

The external AC power source must be able to deliver a current of 1A minimum and the external DC power 5A minimum (LSU for LAAS has an internal fuse for polarity protection), if not the LSU for LAAS may switch to battery operation.

Symbol Glossary

	Direct Current
	Alternating Current
	Class II Equipment, according to IEC 60601-1
	Type BF applied part, according to IEC 60601-1
IP34	Protection class ref. IEC 60529
	Date of production
	Warning/ Caution
	Consult User Guide
	The products is eligible to bear the CSA Mark with adjacent indicator 'US' for US

Waste Handling

Recycle and dispose of the product in accordance with your country's recommendations.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about treatment, recovery and recycling of this product, contact your local waste disposal service or local governmental office for waste management.

Environmental Conditions

Parameter	Specification
Operating/Charging Temperature	0 °C (32 °F) to +40 °C (104 °F)
Recommended Charging Temperature	15 °C (59 °F) to +25 °C (77 °F)
Long Term Storage Temperature	0 °C (32 °F) to +40 °C (104 °F)
Max. 24 Hour Storage Temperature	-30 °C (-22 °F) to +70 °C (158 °F)
Warm-up Time	Minimum 90 minutes at room temperature after storage at minimum temperature.
Cool-down Time	Minimum 90 minutes at room temperature after storage at maximum temperature.
Humidity (Operating & Storage)	5–95% RH, non-condensing
Altitude	0–4000 m

Power requirements

Parameter	Specification
Operating / Charging	100–240 VAC, 50–60 Hz, or 12–28 VDC
Battery	12 VDC, 2 Ah, NiMH, rechargeable
Charging Time	3 hours for approx. 80% battery capacity; 4 hours for full charge
Vehicle Supply	12–28 VDC nominal
Fuses	The LSU for LAAS fuses must be replaced by a Laerdal Service Center
Supply Mains	When connected to SUPPLY MAINS through a power cord, SUPPLY MAINS voltages are present within the unit. To isolate the unit from SUPPLY MAINS, disconnect the power cord. If placed in a mounting bracket, disconnect the unit from the mounting bracket.

Operation

Approx. free air flow at different settings:	
80 mmHg	12 l/min.
120 mmHg	16 l/min.
200 mmHg	20 l/min.
350 mmHg	25 l/min.
500+mmHg	> 30 l/min.



Note

Litre at standard atmospheric pressure and temperature.

Approx. battery operation time at different settings: (free air flow) ($\pm 10\%$)	
80 mmHg	3 h 45 min.
120 mmHg	2 h
200 mmHg	1 h 20 min.
350 mmHg	50 min.
500+mmHg	30 min.

Approx. noise levels at different settings: (free air flow)	
80 mmHg	46 dBA
120 mmHg	48 dBA
200 mmHg	51 dBA
350 mmHg	55 dBA
500+mmHg	57 dBA

Operation	
Vacuum - Max.	> 500 mmHg (67 kPa).
Vacuum - Range	80 - 500+ mmHg (11 - 67 kPa). Vacuum Indicator accuracy: $\pm 5\%$ of full scale.

Classification

High vacuum/high flow.

The LSU for LAAS is a training version of the LSU, which is designed for use in road ambulances in accordance with IEC 60601-1-12

Not suitable for use in the presence of flammable liquids or gases.

Internally powered/class II equipment type BF, according to IEC 60601-1. Protection class IP34 according to IEC 60529:

- Protected against solid foreign objects of 2.5 mm \varnothing and greater.
- Protected against splashing water.
- Protected against access with a wire.

MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the accompanying documents.

Portable and mobile RF communication equipment can affect MEDICAL ELECTRICAL EQUIPMENT.

General tolerance

Overall tolerance	5%
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Physical Characteristics

Size	315 mm (12.4 in) x 330 mm (13 in) x 160 mm (6.3 in), (h x w x d).
Weight	3.7 Kg (8.2 lbs) including NiMH battery.
Canister	Shipped with HI-FLOW Suction Canister, 1200cc (ml).
Patient Suction Tubing (non-sterile):	0.25 in (6.5 mm) inside diameter x 72 in (1.8 m) length.

Warranty

Refer to the Laerdal Global Warranty for terms and conditions. For more information visit www.laerdal.com.

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Laerdal
helping save lives