

EpiShuttle®

Treatment without compromise

Technical specifications

EpiShuttle measurement

Max length: 2306 mm / 7.6 feet
Max width: 655 mm / 2.1 feet
Max height: 732 mm / 2.4 feet
 810 mm / 2.7 feet, incl. SP44 Vibration Shock absorption mounts
Max weight: 62 kg / 137 lb (standard configuration)

Patient measurement

Max length: 198 cm / 6.5 feet
Minimum length: 140 cm / 4.6 feet
Max width: 55 cm / 1.8 feet
 Always perform a form-fit check or a patient measurement to ensure that the EpiShuttle will function properly if the patient exceeds the specified dimension

Shipping box measurement

Max length: 2400 mm / 7.9 feet
Max width: 740 mm / 2.4 feet
Max height: 940 mm / 3.1 feet
Max weight: 96 Kg / 211.6 lb

Max load

Patient + accessories: 150 kg / 330 lb

Operating conditions

Operating temperature: 0 to +40 °C / 32 to +104 °F
Relative humidity: 20 - 80%
Atmospheric pressure: 620 - 1060 hPa
Transient Temperature: -20 °C to +50 °C / -4 °F to +122 °F

Patient retention/safety belts:

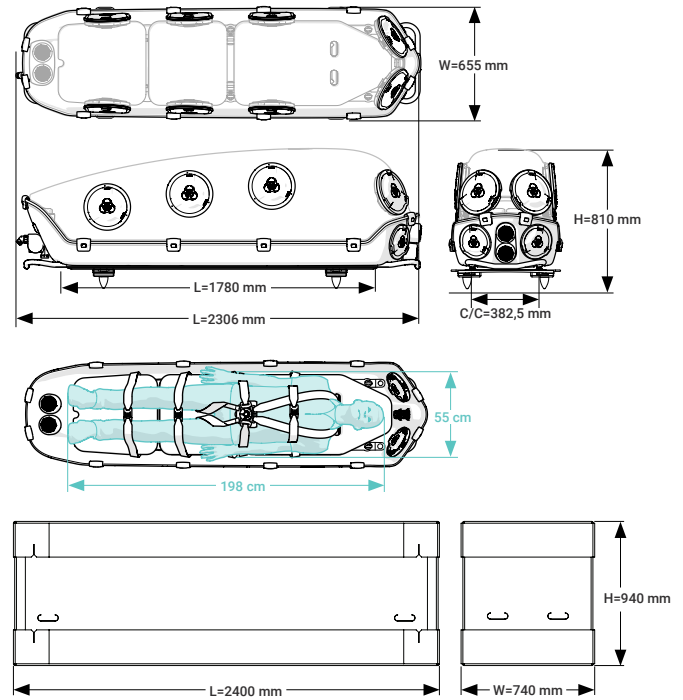
Quick release 6-point torso/hip restraint, chest strap, and upper / lower leg strap

Access ports:

Operator ports: 8 ports for gloves or sluice bag configurations
Wire port: Membrane inlet for IV lines, monitoring cables and similar equipment
Ventilator port: Generic port for all types of mechanical ventilator circuits

Overview of some of the Mechanical Strength tests performed on the EpiShuttle:

Standard	Clause	Test	Description	According to
EN 1789	4.5.9	Crash	10 G all directions	EN1789, 5.4.5
	6.4.2	Free fall	0.75 m, 1 on each side	EN 60068-2-32, procedure 1
EN 13718-1	4.7.2	Vibration and bump		RTCA DO-160G:2010, Section 7 Category A and Section 8 Category U/U2
	5.4	Free fall	0.75 m, 1 on each side	IEC 60068-2-31:2008, procedure 1
	15.3.2	Push	250 N 5 sec on the cover over surface 30mm.	
IEC 60601-1	15.3.3	Impact	0.5 kg steel ball from 1.3 m drop or pendulum	
	15.3.6	Moulding stress relief	Inspection of the construction and available data - or test 70 degr 7 hours, cool to normal and inspect.	
	10.1.3c	Free fall	0.1 m (>50 kg) 2 falls	IEC 60068-2-31:2008, procedure 1
		Shock	Type 1: 30g, 11ms, half-sine, 3 shocks per direction	EN 60068-2-27
AS/NZS 4535:1999	3.6 (a) (i)	Vibration		RTCA DO-160G cat S fixed wing/cat U rotary wing
		Crash	24 g in 20 ms, +X direction	



Air system:

Blower unit: CleanAir® Chemical 2F
Power source: Rechargeable Li-ion battery 14.4V 2,6 Ah, CE1024
Air exchange: More than 15x air exchanges per hour
Operating Negative pressure: Min -15 Pa relative to the environment
Operating Positive pressure: Min 15 Pa relative to the environment
Altitude mode: For use in low pressure environments (example on airplane at high altitude)

Electrical Tests:

According to
CISPR 11
ISO 7137
IEC 61000-4-2:2008)
IEC 61000-4-3:2006 A1:2007, A2:2010
IEC 61000-4-4:2012
IEC 61000-4-8:2009
CB, EIC 60601-1-2 (EMC Test)
EC 621313 CB (Battery Test)

Flammability Test:

According to
CS 25.853 Appendix F

Decompression Test: qualified up to 16,000 m / 51,000 ft

According to
RTCA DO-160-Section 4.0, Category A1
MIL-STD-810G Method 500.5