Stryker Physio-Control LUCAS 2 Chest Compression System

The **Stryker Physio-Control LUCAS 2** is a chest compression system that can be used in Sudden Cardiac arrest patients. The LUCAS 2 provides high-quality, consistent chest compression, increasing the patients circulation and chances of a successful outcome. The Compression system can perforate at a rate of 100 compressions per minute. The Stryker Physio-Control Lucas 2 is a lightweight system that comes in a backpack and can easily be applied to a patient. The Stryker compression system consists of an upper part that contains a pneumatic driven piston rod, to achieve the best compression and a backplate. The System does not require any electricity to run it is powered by breathing oxygen or air from a wall outlet.

Features

- The device maintains consistent chest compression over a long period of time.
- Used to perform external cardiac compressions on adult patients who have circulatory arrest defined as absence of spontaneous breathing and pulse, and loss of consciousness.
- Backplate that gets positioned underneath the patient as a support for the external chest compressions.
- Upper part that contains the proprietary and rechargeable LUCAS battery and the compression mechanism with disposable suction cup.
- About 45 minutes battery runtime.

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Specifications

Dimensions	**Height:** 22” (57 cm) **Width:** 20.5” (52 cm) **Depth:** 9.4” (24 cm) **Weight:** 17.2 lbs (7.8 kg)
Patient Types	Adult patients who fit into the device; sternum height of 6.7 to 11.9 inches / 170 to 303 mm; a maximum chest width of 17.7 inches / 449 mm The use of LUCAS is not restricted by patient weight.
Compressions	**Compression Depth:** 1.5 to 2.0 inches / 4 to 5 cm from the Start Position **Compression Frequency:** 100 ± 5 compressions per minute **Compression Duty Cycle:** 50 ± 5% **Compression Modes (operator selectable):** 30:2 (30 compressions followed by a 3 seconds ventilation pause); Continuous compressions
Battery	**Type:** Rechargeable Lithium Ion Polymer (LiPo) **Capacity:** 3300 mAh (typical), 86 Wh **Battery Voltage (nominal):** 25.9 V **Initial Battery Runtime (nominal patient):** 45 minutes (typical) **Maximum Battery Charge Time:** Less than 4 hours at room temperature (72°F / 22°C) **Required Interval for Replacement of the LUCAS Battery:** Recommendation to replace the Battery every 3 years or after 200 uses (of more than 10 minutes use each time)
Environmental	**Operating Temperature:** +32°F to +104°F / +0°C to +40°C **Storage Temperature:** -4°F to +158°F / -20°C to +70°C **Relative Humidity:** 5% to 98%, non-condensing **IP Classification (IEC60529):** IP 43 **Operating Input Voltage:** 12-24 V DC

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