



The **Stryker Physio-Control LUCAS 1** is a chest compression system - used for performing External Cardiac Compression on adult patients. Using the LUCAS 1 System instead of manually doing chest compressions during CPR, means you can get better quality chest compressions while increasing the patient's EtCO<sub>2</sub> levels and circulation. The Stryker Physio-Control Lucas 1 is a portable device that emergency first responders can carry in a backpack. 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

- Requires no electrical supply and has no conducting parts on the outside, except for the hose attachment, and the claw lock bar.
- The device maintains consistent chest compression over a long period of time.
- Powered by breathing oxygen or air from a wall outlet in a hospital or ambulance, or from a cylinder.
- Gas hose is permanently mounted on the LUCAS, and has a unique male connector at the open end.



## Specifications

### Dimensions

**Height:** 25.6" (65 cm)

**Width:** 13" (33 cm)

**Depth:** 9.8" (24.9 cm)

**Weight:** 13.9 lbs (6.3 kg)

### Patient Types

Adult patients with a sternum height of 7.5 inches to 11.9 inches (190 to 303 mm) and a maximal width of 17.7 inches (449 mm) who fit into the device.

The device is not suitable for use with children.

### Compressions

**Depth of Compression:** Compresses the sternum by 2 inches (5 cm)

**Frequency:** 90-110 comp/min. with air at +59 °F to +95 °F (+15 °C to +35°C)

### Operation

**Air Consumption:** 13.7 gallons/minute (52 litres/minute)

**Air Hose:** Permanently attached, 10.8 feet (3.3 m) in length, with unique male connector.

### Environmental

**Temperature Range Operation:** +41 °F to +104 °F (+5 °C to +40 °C)

**Temperature Range Storage:** -22 °F to +140 °F (-30 °C to +60 °C)

