

Ventilator, battery powered

Country of origin | Canada

Primary function | Supporting or sustaining life

Health problem addressed

Poor electricity, expensive intensive care units and critical lack of trained health care workers have affected the delivery of adequate health care in resource-poor health facilities. In particular, the use of conventional medical mechanical ventilators is compromised in developing nations, urban and rural cities area. It was estimated that about 1.2 million units are needed to serve facilities in Nigeria, Southeast Asia and Africa. The price of conventional ventilator and its associated costs are too high for most health facilities in these regions.



Disease addressed

The technology does not address a specific disease.

Product information

The medical ventilator is powered by a rechargeable battery and contains levers that work with an electromechanical mechanism. Once activated, the mechanism compresses standard sized cardiopulmonary resuscitation (CPR) bags and is able to deliver air to the patient. It has a connector that allows it to be connected to a face mask, a laryngeal mask airway or an endotracheal tube. It has a button that allows the respiratory rate/number of compressions to be set. It has an alarm sound that loudly beeps once the unit is not compressing the bag

Use and maintenance

User: Trained caregiver (e.g family member), nurse, general physician, specialized physician.

Environment of use

Setting: Rural settings, urban settings, outdoors, indoors, public places (market, library, etc.), primary level (health post, health centre), secondary level (general hospital), tertiary level (specialists hospital), ambulances.

Energy requirements: Rechargeable battery.

Product specifications

Other features: Available airway devices (for example facemask, laryngeal mask airway and endotracheal tube).

Commercial information

Reference price (USD): 1000

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Medical device

WHO compendium of innovative health technologies for low-resource settings

2016-2017

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