

Bubble CPAP with built-in pulse oximeter

Country of origin | Vietnam

Primary function | Treatment

Health problem addressed

Continuous Positive Airway Pressure (CPAP) therapy is a common form of respiratory support for spontaneously breathing infants in respiratory distress. Unfortunately, the high cost of consumables associated with CPAP therapy can make it hard to access by low-resource hospitals. A CPAP device with lower upfront and continuous costs compared to existing technologies would increase accessibility of CPAP therapy in low-resource settings.



Disease addressed

Diseases of the respiratory system.

Product information

Bubble CPAP therapy is provided by precisely blended, heated and humidified gas at user-specified percentage of oxygen, flow rate and pressure. Operating the device requires electricity and compressed oxygen. The device can be made to operate with built-in air pump or with compressed air available at the hospital. Pulse Oximetry Monitoring measures the patient's pulse rate and functional oxygen saturation of arterial hemoglobin.

Use and maintenance

User: Nurse, general physician, specialized physician.

Environment of use

Setting: Secondary level (general hospital), tertiary level (specialists hospital).

Energy requirements: 1 m² solar panel or AC power supply for 12 hours.

Product specifications

Accessories: Humidifier (reusable), PEEP chamber (reusable), heated breathing circuit (reusable), pulse-oximetry sensor (reusable).

Consumables: Nasal interface.

Weight (kg): 17

Lifetime: 5-10 years

In UN catalog: No

Other features: Clean water supply; gas supply; sterilization or chemical disinfection.

Commercial information

Reference price (USD): 3100

Model: Dolphin CPAP

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Medical device

WHO compendium of innovative health technologies for low-resource settings

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