

Overview

Background

Africa has an urgent need of a large number of ventilatory support devices for severely affected COVID patients.

80% of COVID sufferers need no treatment and do well. 20% need hospitalisation for various levels of support for oxygenation. The majority of these patients can be rescued with pressurised air enriched with Oxygen via Constant Positive Airway Pressure (CPAP) machines, with significantly lower ICU and nursing requirements than traditional ventilators.

The CPAP 100 utilises tried and tested components and has been manufactured to be a highly durable product for use in tough conditions on the continent of Africa.

The South African Government has put out a call for local manufacturers for 11,000 CPAP devices. The CPAP 100 has been chosen as one of the devices to be manufactured for the needs of South Africa.

The product is manufactured in Rosslyn, Pretoria, South Africa. The manufacturers have delegated marketing of the device outside of South Africa to AfriLung (pty) Ltd.

Why CPAP?

80% of COVID sufferers need no treatment and do well. 20% need hospitalisation for various levels of support for oxygenation. The majority of these can be rescued with pressurised air enriched with Oxygen – with lower nursing requirements. Only a small subset need actual mechanical ventilation and highly trained ICU staff. CPAP 100 is far less expensive than full ventilators – so more patients can be saved for the same budget.





CPAP technical information

- Robust and simple to use
- Tried and tested technology with a 35 year history
- No electronic components
- Entirely pneumatic
- All manufacturers in the supply chain of the CPAP 100 are OEM's for the automotive industry in South Africa, are **ISO certified and produce to the highest standards internationally.**

CPAP quality control

- The CPAP 100 is manufactured according to ISO 13485 /2016 quality standards in ISO 9001/2015 accredited factories.
- All components are ultrasound cleaned before assembly.
- All (100%) subassemblies are subjected to quality control inspection after assembly at suppliers.
- All subassemblies are re-inspected before final assembly at final plant.
- All CPAP 100 devices are tested for functionality after assembly.

CPAP servicing / maintenance

- Instruction videos and written service information will be provided on sale of the CPAP 100.
- There are no electronic components and the CPAP 100 is entirely pneumatic enabling servicing in country.
- Experienced medical technicians will recognise the CPAP 100 components which have been in use for 35 years as part of many medical devices.
- In service testing only required every three months under continuous use.
- Preventative maintenance required annually.

Other requirements

The CPAP 100 requires compressed Medical Air. If this is not available, AfriLung has a system to supply medical air for a 300 bed hospital which is supplied built into a 20ft shipping container (see separate presentation).

In addition, patient circuits (mask, tubing, filters and peep valves) are required – AfriLung has South African manufactures which can supply these needs.

A reliable large scale oxygen supply, a distribution piping system for oxygen and medical air around the field hospital, basic hospital beds and patient monitoring equipment are all required.

These can be acquired through AfriLung if not available locally in your country.

Contact

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