

# Carbon Dioxide Self Powered Absorber - CASPA™



Fully portable, absorber unit offering rapid CO<sub>2</sub> removal in confined spaces

## Description

The CASPA™ (Carbon Dioxide Self Powered Absorber) is a self contained carbon dioxide absorption unit intended for the removal of respired CO<sub>2</sub> in a confined space. The unit combines hi-tech battery and fan components with a carefully designed, volumetrically efficient, CO<sub>2</sub> absorbent material. The units are supplied with removable seals to ensure storage life in survival chambers. No annual maintenance or service interventions are required.

## Applications

- Submarine Emergency Survival
- Submarine primary system (mini sub)
- Commercial submarines
- Mine rescue
- Safe havens
- Office refuge
- Control rooms
- Command centre
- Any confined space that needs to maintain a breathable atmosphere

## Dimensions

300mm x 300mm  
x 180mm



## Technical Specification

Storage volume per unit	13.9 litre
Stacked dimensions	approx. 300 x 300 x 155 mm
Unit Weight (gross)	approx. 12 kg
Sofnolime	7.5 kg minimum
Flow rate through unit	>13 m <sup>3</sup> /hr (TM 106)
CO <sub>2</sub> capacity of unit	>1300 litre CO <sub>2</sub> / unit at NTP (TM 106)
Storage life	6 years
Operational envelope	1% to 3 % CO <sub>2</sub> at 5°C to 30°C and up to 5 bar

## Additional Information

### Packaging, Transportation & Disposal

CASPA™ units may be supplied loose on a pallet or inside a cardboard box.

CASPA™ units are powered by Lithium batteries and are therefore classified as hazardous UN3091, class 9.0 miscellaneous, packing group II, and are packed in accordance with IATA regulations for airfreight (not passenger aircraft) or IMDG regulations for sea freight.

Damaged, retired or spent CASPA™ units may need to be disassembled in order to be disposed of according to local legislation as they contain electronic components and Lithium batteries. Details of disassembly are contained within the instruction manual or are available from Molecular Products Ltd.

### Quality

Molecular Products Ltd's aim is to manufacture chemical products which satisfy completely the needs of our customers. All products are rigorously tested to ensure conformance to the specification. Our activities comply to the requirements of ISO 9001:2008 and Good Manufacturing Practice.

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