



CASPA UNITS Carbon Dioxide Self Powered Absorber units



* Ideal for chemical plants or other toxic and industrial facilities that have a safe haven policy to protect workers in the event of an accidental release

UNIT WEIGHT (GROSS): 25 lbs (11.3kg)

CHEMICAL: Sofnolime (16.5lbs / 7.5kg)

FLOW RATE: > 460 ft³ (13m³)

CO₂ CAPACITY PER UNIT: >1300 liters (>295 gallons, US, DRY)

OPERATIONAL RANGE: 1-2% CO₂

Volume of Enclosure	10 persons	20 persons	50 persons	100 persons
1000ft³ (28m³)	2	2	2	2
2000ft³ (56m³)	3	3	3	3
4000ft³ (113m³)	6	6	6	6
6000ft³ (169m³)	8	8	8	8
8000ft³ (226m³)	11	11	11	11

To determine the correct number of CASPA units required it is necessary to consider not only the number of people present, but the volume of the safe haven as well. See table across for number of units required based on different occupancies and volumes of safe havens.

DIMENSIONS		
Width	Length	Height
11.8" (30cm)	11.8" (30cm)	7.1" (18cm)
STACKED DIMENSION		
11.8" (30cm)	11.8" (30cm)	6.1" (15.5cm)
STORAGE VOLUME PER UNIT		
0.5 ft³ (0.016m³)		

*The indicated number of CASPA units in the above table will provide sufficient CO₂ removal to maintain the CO₂ concentration below 1% for a minimum of 3 hours.

THE CASPA

Carbon Dioxide Self Powered Absorber units (CASPA) are intended for the removal of expired CO₂ in an enclosed environment where oxygen depletion is not an issue (i.e. entrapment requirements are just a few hours). The removal of carbon dioxide is the major priority as it is expired at more than two times the rate at which oxygen is used inside an enclosed environment.

The unit combines modern hi-tech battery and fan components with a carefully designed, volumetrically efficient, CO₂ absorbent material. They are supplied with removable seals to ensure reliable operation under harsh conditions. The units require no maintenance or special equipment to be used. The CASPA is small, allowing ease of storage and has a 6 (six) year shelf life.