



semmmco

life protection systems

Expert manufacturers
of short duration
breathing apparatus
specialists in escape and working rescue

Semmmco Marine 15 EEBD

Emergency escape oxygen
breathing device to protect from:

- Smoke
- Toxic contamination
- Oxygen deficiency

Semmco Marine 15 EEBD

The Marine 15 EEBD is a self-contained, short duration, chemical oxygen (O₂) breathing apparatus. It provides a supply of fresh oxygen so that the wearer can breathe freely in a contaminated or oxygen deficient environment, ensuring a quick and safe escape.

The Marine 15 EEBD provides a:

- 15 minutes duration for escape
- 60 minutes duration at rest

And is contained in an orange, rigid case, that is discarded once it is in use.

How the Marine 15 EEBD works

The Marine 15 EEBD uses KO₂ (potassium superoxide) to provide oxygen to the user. As the EEBD is pulled from its carry case, a chlorate candle provides oxygen for the user's first breath. As the user exhales into the bag, moisture from their exhaled breath activates the KO₂ that then 'scrubs' the CO₂ and liberates oxygen. Oxygen continues to be generated while the EEBD is being used and will last for 15 minutes if escaping and 60 minutes if at rest.

Main features and benefits

- Automatic start – instant O₂ supply once the EEBD is removed from the carry case
- 15 minutes duration for escape; 60 minutes duration at rest
- Quick and simple to don
- Lightweight - 2kg (with case) 1.3kg (without case)
- Easy to move around when wearing the set
- Clear visual indicator on the case confirms EEBD viability
- No face fit test required
- Highly visible breathing bag
- Clear face shield providing panoramic vision
- Fits existing storage systems
- Up to 15 year shelf-life. MED approved for both UKCA & CE Watermark



Marine 15 EEBD	
1	Face shield
2	Nose clip and mouthpiece
3	KO ₂ oxygen generator (inside bag)
4	O ₂ starter (inside bag)
5	Pressure relief valve
6	Lanyard starter
7	Breathing bag
8	Neck strap



Technical Data

	Part no.
Marine 15 EEBD with carry case	802.015.00
EEBD Training Set	On request
Weight with case (kg) approx.	2kg
Weight without case (kg) approx.	1.3kg
Case dimensions (mm) approx.	210 x 230 x 100
Operating time according to ISO23269-1:2008	15 minutes
Operating time at rest according to ENI 3794:2002	60 minutes
Temperature inhaled gas 35L/min ISO23269-1	<50o
Temperature inhaled gas 35L/min ENI 3794	<60o
Breathing Bag Volume	≥6 ltrs
CO ₂ content (inhaled gas)	<3%
Temperature: Storage	-20 to +60°C
Temperature: In use	-6 to +50°C

Storage:

The Marine 15 EEBD can be stored for up to 15 years but during its life, visual checks must be carried out on a regular basis to ensure that:

- The case is not damaged
- The anti-tamper label and seal are still intact
- The unit is within the expiry date
- The visual indicator is blue and not pink

If these conditions are not met the unit mustn't be used and must be replaced with a new unit.

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Donning the Semmco Marine 15 EEBD



1. Open the yellow upper latch lever to remove the lid of the case. Discard the lid.



2. Remove the Marine 15 EEBD from the case – pull on the base of the breathing hose.

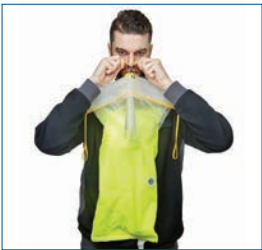
N.B. This action automatically activates the chlorate candle and oxygen fills the breathing bag.



3. Take a breath and place the neck straps over the head, adjusting as required.



4. Insert the yellow mouthpiece, exhale into the mouthpiece and breathe normally.



5. Apply the nose clip.



6. If required, pull the faceshield over the head. Use the pull cords to snugly fit the faceshield around the neck.

N.B. If moisture collects inside the faceshield and distorts the vision, press it against the face to clear.

7. Safely escape.



After use

1. Once in a safe area, remove the Marine 15 EEBD.
2. The Semmco Marine 15 EEBD can be returned to Semmco LPS Ltd for disposal.



Regulations and Approvals

Marine 15 EEBD has been designed and tested in accordance with the following regulations:

- EN13794 and ISO 23269-1 – to demonstrate compliance with the essential safety requirements with PPE Regulation (EU) 2016/425
- SOLAS (International Convention For The Safety of Life at Sea) – Emergency Escape Breathing Devices
- Marine Equipment Directive 2014/90/EU

Expert manufacturers of short duration breathing apparatus - specialists in escape and working rescue

Semmco Life Protection Systems specialises in the design and manufacture of escape and working rescue breathing devices to protect those working in irrespirable atmospheres. In such critical situations, escape and working rescue breathing devices must be easy to don, simple to use and totally reliable.

HEAD Escape and Working/Rescue Devices

In April 2000, Semmco LPS launched the 10 minute HEAD Escape Device. This revolutionary, head-worn design provides a safe and constant supply of oxygen for the wearer so that they can escape from a contaminated or toxic atmosphere. The Device incorporates a unique alarm system so that the



HEAD10 Escape Breathing Device

wearer knows the exact remaining duration of the device to enable them to complete a safe escape.

(N.B. the alarm sounds at $\frac{2}{3}$ the duration, indicating the wearer has $\frac{1}{3}$ duration remaining).

So popular is this Device that 15 and 30 minute sets were developed and in 2009, Semmco LPS launched its HEAD CSRE Working/Rescue Device, specifically developed for use by correctional officers working in prisons and custody suits. This Device is now installed in every Government and private prison in England, Wales and Northern Ireland.

The HEAD range is maintenance free for 12 years, with revalidation at 6 and 9 years providing considerable through-life cost savings.

Semmco EEBD

The latest addition to the escape and working rescue devices range, the Semmco EEBD is a self-contained, single use, short duration oxygen (O₂) breathing device specifically for use in the Maritime & Offshore, Industrial, Military and Mining markets. It is available in the following configurations:

- Marine - 15 minute set
- Industrial - 20 minute set

Unlike the HEAD Devices, it is simpler in design with a mouth-piece, nose clip and face shield and can be stored for up to 15 years. During that time regular visual checks ensure its viability.

To discuss any requirements you may have or to request a quote, please get in touch with a member of our sales team at the following locations:

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