

## Marine 15 EEBD/Industrial 20 EEBD



The Semmco EEBD is a self-contained, short duration, closed circuit oxygen (O<sub>2</sub>) rebreather that is available in two different versions:

- Semmco Marine 15 EEBD – 15 minute duration for military, maritime and offshore applications
- Semmco Industrial 20 EEBD – 20 minute duration for industrial applications

The Semmco EEBD uses potassium superoxide (KO<sub>2</sub>) 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 KO<sub>2</sub> that then 'scrubs' the CO<sub>2</sub> and liberates oxygen. Oxygen continues to be generated while the EEBD is being used.

The Semmco EEBD is contained in a rigid case that is discarded once in use and the Semmco EEBD Marine fits into existing storage racks. The case features both an exterior indicator showing the validity of the set at a quick glance, as well as pictorial instructions for use. For industrial applications the set can be belt mounted using the belt clip accessory.

The Semmco EEBD should be removed once a safe area has been reached.

### Features & Benefits

- Quick and easy to don – comfortable to wear
- Automatic quick start mechanism - instant O<sub>2</sub> supply
- Lightweight (1.3kg)
- No face fit test required
- Easily adjustable neck strap
- Clear face shield for panoramic vision
- High visibility breathing bag
- Ideal for confined spaces - no bulky cylinder to carry
- Maintenance free for up to 15 years (visual inspections recommended)
- Clear visual indicator on case to check viability
- Robust, environmentally sealed product packaging featuring side mounted shoulder strap
- Fits existing EEBD stowage racks on board ships
- Belt mounted waist clip for industrial applications



EEBD Technical Information	
1	Face shield
2	Nose clip and mouthpiece
3	KO <sub>2</sub> oxygen generator (inside bag)
4	O <sub>2</sub> starter (inside bag)
5	Pressure relief valve
6	Lanyard starter
7	Breathing bag
8	Neck strap



## Technical Data

	Part no.
Marine 15 EEBCD minute with carry case	802.015.00
Industrial 20 EEBCD minute with carry case	802.015.01
EEBCD 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 according to ENI 3794:20	20 minutes
Operating time at rest according to ENI 3794:2002	60 minutes
Temperature inhaled gas 35L/min ISO23269-1	<50°
Temperature inhaled gas 35L/min ENI 3794	<60°
Breathing Bag Volume	≥6 litres
CO <sub>2</sub> content (inhaled gas)	<3%
Temperature: Storage	-20 to +60°C
Temperature: In use	-6 to +50°C

## Approvals

- Semmco Marine 15 EEBCD: MED Wheelmark, CE & UKCA Approval. Tested in accordance with Marine Directive ISO23269-1:2008
- Semmco Industrial 20 EEBCD: CE & UKCA Approval. Tested in accordance with ENI 3794:2002

## Storage and conditions for use:

The Semmco EEBD can be stored for up to 15 years. Official regulations on inspection must be observed. The following visual checks must be carried out on a regular basis:

1. The case is not damaged
2. The anti-tamper label and seal are intact
3. The unit is within the expiry date
4. The moisture indicator is blue and NOT pink

N.B. If these conditions are not met the unit should not be used and should be replaced with a new unit.



## Precautions

- Due to the potential fire risk it is important to prevent the ingress of flammable substances such as petrol, grease, or solvents into the device before and during operation.
- If the device is damaged there is a risk that flammable substances may be ignited if they come into contact with the oxygen producing chemical.
- Do not remove the device from the case until the equipment is required for use. Doing so may reduce the protection afforded by the device.

## Return conditions

The Semmco EEBD can be returned for disposal or rework to Semmco LPS Limited.

The Semmco EEBD contains potassium superoxide ( $KO_2$ ) therefore transportation hazard regulations apply when in transport. The device can only be transported by road, rail or air cargo and should be double bagged, sealed and marked with the appropriate hazard identification label.

EEBDs for disposal or rework should be returned to:

Semmco LPS Ltd  
9 Kestrel Way  
Goldsworth Park Industrial Estate  
Woking  
Surrey GU21 3BA

Tel: +44 (0)1483 757200  
[saleslps@semcco.com](mailto:saleslps@semcco.com)

[www.semccolps.com](http://www.semccolps.com)  
Intelligent Engineering