



HEAD 15

CSRE SET



The Semmco HEAD 15 RPE/CSRE Set is a self-contained, short duration oxygen (O₂) rebreather that provides 15 minutes wearer protection for those working in prisons, detention centres and immigration centres. It enables a safe rescue or working in environments that are affected by smoke, toxic contamination and oxygen deficiency.

The revolutionary design of the HEAD 15 RPE/CSRE Set uses potassium superoxide (KO₂) to provide a safe and constant supply of oxygen so that the wearer can breathe in a contaminated or potentially dangerous atmosphere without having to carry a bulky, compressed air cylinder. As the wearer breathes into the front port, their exhaled breath is directed into the canisters mounted either side of their head. These canisters contain the KO₂ that 'scrubs' the CO₂ from the wearer's exhaled breath and liberates fresh oxygen. This oxygen is delivered to the wearer and so the process continues.

The HEAD 15 RPE/CSRE Set is contained in a sealed, sturdy carry case that includes an indicator that provides a constant, visual indication of the validity of the escape set – blue indicates the set is viable; pink indicates the set may be compromised and should be returned to the manufacture for revalidation.

FEATURES & BENEFITS

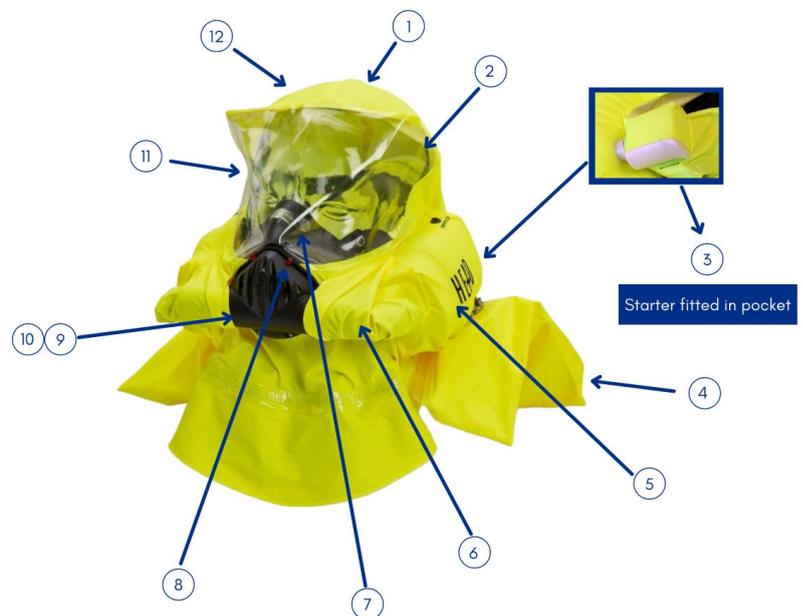
- Automatic start - instant O₂ supply
- Higher breathing rate for rescue or working
- Maintenance free for 12 years; revalidation at 6 & 9 years
- Ideal for confined spaces - no bulky cylinder to carry
- Lightweight (1.6kg) & easy to operate
- Integral oronasal mask and latex neck seal
- No face fit test required
- Panoramic visor providing optimum vision
- No mouthpiece to restrict communication
- Visual safety alarm indicating low oxygen level
- Minimal training required
- Option to buy or hire the equipment



ADDITIONAL BENEFITS

Instant oxygen supply	The HEAD15 RPE/CSRE Set is automatically activated as it is removed from its packaging. A chlorate starter candle boosts the initial oxygen supply, delivering oxygen into the breathing bag.	
High levels of protection	The moulded oronasal mask and latex neck seal provide high levels of protection and negate the need for a face fit test.	
Visual, audible alarm	The alarm provides the wearer with a three-stage audible and visual alarm sequence: Stage 1: initiated on start up. Stage 2: initiated after 2/3 of the effective duration. Stage 3: initiated when the effective duration of the set has been reached.	
Lightweight	The HEAD15 RPE/CSRE Set weighs 1.6kg (2.4kg with carry case). The HEAD15 RPE/CSRE Set is practical and easy to wear because it is head mounted with the generators positioned either side of the wearer's head, leaving the wearer free to move quickly and easily.	
Storage integrity indicator	The HEAD15 RPE/CSRE Set is stored in a vacuum sealed container that incorporates an indicator providing constant, visual awareness of the unit's integrity. Blue indicates the set is viable; pink indicates the set may be compromised and should not be used.	

HEAD 15 RPE/CSRE Set Key	
1	Over pressure valve fitted to back of hood
2	Pressure relief valve
3	Oxygen starter
4	Reservoir bag
5	Oxygen Generator
6	Supply tube
7	Oro-nasal mask and harness
8	Warning LED
9	Heat Sink
10	Front Port
11	Visor
12	Hood



APPROVALS

The CE and UKCA marked apparatus has been designed and tested in accordance with:

- EN 13794
- DIN 58639
- DIN58652-1

where applicable, to demonstrate compliance with the essential safety requirements of PPE Regulation (EU) 2016/425

TECHNICAL INFORMATION

Technical information	
Part Number	802.001.20
Weight with case (kg) approx.	3kg
Weight without case (kg) approx.	1.6kg
Case dimensions (mm) approx. (all variants)	335 x 300 x 165
Breathing bag volume	8 litres
Inspiratory/expiratory resistance at 50L/min	-5 to +7 mbar
CO2 content (inhaled gas)	<2% volume
Operating time according to EN 13794	15 minutes
Storage temperature	-30°C - +60°C
Operating temperature	-6°C - +50°C

Supporting products	Part no.
HEAD 15 RPE/CSRE Training Set in blue bandolier carry case	802.001.25
HEAD 15 RPE/CSRE Demo Unit in blue bandolier carry case	802.001.08
HEAD 15 RPE/CSRE Training Set hood replacement	802.005.04
HEAD Alarm Trainer	802.001.26

STORAGE AND CONDITIONS FOR USE

The HEAD 15 RPE/CSRE Set can be stored for up to 12 years with no maintenance costs, except for an inspection at 6 and 9 years. If the set is used it can be returned to Semcco LPS for refurbishment and/or revalidation.

Before use and during a visual check the following should be carried out:

- The carry case isn't damaged
- The security tag is in place and not damaged
- The status indicator is blue.

NOTE: If these conditions are not met the unit must not be used and must be returned to Semcco LPS for refurbishment, revalidation or to be replaced with a new unit.



THROUGH LIFE COSTS

The HEAD 15 RPE/CSRE Set can be stored for up to 12 years with no maintenance costs, except for an inspection at 6 and 9 years. Unlike compressed air breathing apparatus that has to be serviced and re-certified regularly and because of the nature of the design of the HEAD 15 RPE/CSRE Set, a simple, visual inspection at 6 years and 9 years is all that is required to ensure the viability of the Set. Over a period of 12 years, this 'no maintenance' benefit provides extensive cost saving.

RETURN INSTRUCTIONS

The HEAD 15 RPE/CSRE Set can be returned to Semcco LPS for refurbishment, revalidation or disposal. The HEAD 15 RPE/CSRE Set contains potassium superoxide (KO₂) and therefore hazard transportation regulations apply when in transit.

The device can only be transported by road, rail or air cargo and should be double plastic bagged, sealed and marked with the appropriate hazard identification label.

The HEAD 15 RPE/CSRE Set should be returned to:

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