



protecting individuals working
in hazardous environments with
innovative breathing apparatus



WORK | ESCAPE | RESCUE

Why Semmco Life Protection Systems?

Semmco's Life Protection Systems HEAD range was created to protect individuals in hazardous working environments; including ammonia, oxygen deficiency and smoke.

The revolutionary design of the HEAD products provide a safe and constant supply of oxygen so that the wearer can breathe in a contaminated or potentially dangerous atmosphere whilst not carrying a bulky compressed air tank.

The range includes 10 minute, 15 minute and 30 minute escape sets, a 15 minute working/rescue set, 15 minute RPE/CSRE set and a six minute inspector set.

HEAD products are available in a range of containers including a bandolier/carry case, a wall mounted box or a rigid case that is discarded when the set is used.

Semmco offers 'Train the Trainer' on-site courses with you and your teams as well as a full range of training equipment.

- Automatic start - instant O₂ supply for up to 30 minutes*
- Maintenance free for 12 years – lower through life costs than our competitors
- Ideal for confined spaces - no cylinder
- Lightweight (1.6kg) & easy to operate - only half day training required for your teams
- Unique latex neck seal and oronasal mask design - no face mask fit test required
- Panoramic visor allowing optimum vision from hood
- Audio & visual safety alarm indicating low oxygen level to user
- Range of cases available
- Option to hire or buy

*depending on model choice

EN 13794 - EC Directive 89/686/EEC -
ATEX Directive 94/9/EC



HEAD6/HEAD10



HEAD15/HEAD30

HEAD¹⁰

ESCAPE SET

HEAD¹⁵

ESCAPE SET

HEAD³⁰

ESCAPE SET



The HEAD Escape Set range includes a 10 minute, 15 minute and 30 minute escape set.

All models enable a simple, effective and safe means of escape in an emergency, with a unique in-built personal safety alarm system that is a key feature across the range.

All are lightweight, providing either 10, 15 or 30 minutes maximum wearer protection against areas of smoke, toxic contamination and oxygen deficiency. It is quick to fit, easy to use and as HEAD Escape Sets are self-contained, the wearer has both hands free to move around safely and efficiently.

HEAD breathing apparatus is maintenance free for 12 years and is used globally across industries including water, power and chemical.

HEAD Escape models are available in a range of containers including a bandolier/carry case, a wall mounted box or a rigid case that is discarded when the set is used.

- Part No.: 802.000.02
HEAD10 Escape Set yellow Bandolier/Carry Case
Size: 310x210x160mm. Weight: 2.4kg
- Part No.: 802.000.01
HEAD10 Escape Set white Wall mounted Box
Size: 330x200x170mm. Weight: 3.3kg
- Part No.: 802.000.04
HEAD10 Escape Set in yellow rigid case
Size: 350x300x150mm. Weight: 3.9kg
- Part No.: 802.001.15
HEAD15 Escape Set in orange Bandolier/Carry Case
Size: 330x190x140mm. Weight: 2.4kg
- Part No.: 802.003.01
HEAD30 Escape Set in orange Bandolier/Carry Case
Size: 330x190x140mm. Weight: 2.4kg

Training equipment on request.

Revalidation and refurbishment on request.

HEAD¹⁵

WORK/RESCUE SET

HEAD¹⁵

RPE/CSRE SET

HEAD⁶

INSPECTOR SET



HEAD 15

Following customer requirements for a rescue set providing longer duration, HEAD 15 Work/Rescue Set was developed. It still contains many of the unique features of the HEAD range but to meet the wearer's requirements it has a higher breathing rate and duration of 15 minutes. As a result of the design features and that it's simple to don and wear, the HEAD 15 RPE/CSRE Set is now the breathing apparatus of choice for prisons around the world, used frequently by prison officers to rescue a prisoner from their cell; it enables individuals to enter a hazardous environment and work or rescue others for up to 10 minutes, with the knowledge they have an additional five minutes of breathing time to ensure a safe exit.

HEAD Working/Rescue Sets are quick to fit, easy to use and as the sets are self contained the wearer has both hands free to move around safely and efficiently.

- Part No.: 802.001.20
HEAD 15 RPE/CSRE in blue Bandolier/Carry Case
Size: 335x300x165mm. Weight: 3kg
- Part No.: 802.001.10
HEAD 15 Work/Rescue Set in blue Bandolier/Carry Case
Size: 335x300x165mm. Weight: 3kg

Training equipment on request

Revalidation and refurbishment on request

HEAD 6

HEAD 6 INSPECTOR SET is a short duration, breathing device, intended for single inspection/light work use in irrespirable atmospheres.

HEAD 6 provides a safe and constant supply of oxygen for six minutes so that the wearer can breathe in a contaminated or potentially dangerous atmosphere whilst carrying out their required task.

- Part No.: 802.002.02
HEAD 6 Inspector Set blue Bandolier/Carry Case
Size: 310x210x160. Weight: 3.3kg
- Part No.: 802.002.01
HEAD 6 Inspector Set white Wall mounted Box
Size: 330x200x170mm. Weight: 2.4kg

How it works...

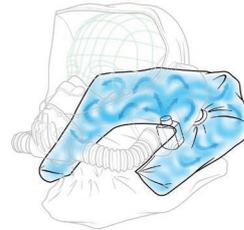
Stage 1:

Automatic alarm initiation which states the apparatus is active: This first alarm will pulse five times to state the activation of the apparatus.



Stage 2:

Chlorate candle releases O^2 , into the breathing bag automatically: The chlorate candle will emit five litres of O^2 into the breathing bag. This is to aid the user on their first initial breath.



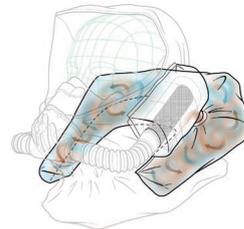
Stage 3:

Donning and first exhalation, KO^2 removes CO^2 , from exhalation breath: The KO^2 , activates from the moisture of your exhalation breath. This reaction removes the CO^2 , and produces O^2 , which flows into the breathing bag.



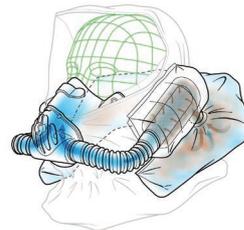
Stage 4:

Dwell period, oxygen has been generated and is within the breathing bag ready to be inhaled.



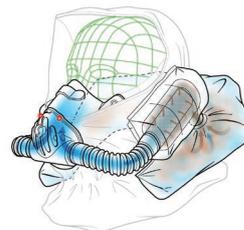
Stage 5:

Inhalation of O^2 , from the breathing bag: The O^2 , produced from the KO^2 , is now drawn from the breathing bag and then through the generators, breathing tubes and into the oronasal mask for the user to breathe. This cycle then continues, this is a closed circuit breathing apparatus, the user is recycling their own breath.



Stage 6:

Alarm initiated at 2/3 of the apparatus's duration and again at full duration: The alarm at 2/3 of the apparatus's duration informs the user of the O^2 level. The alarm will continue pulsing from the 2/3 mark till the full duration, the alarm then changes to a constant pulse to state to remove the apparatus if the user is within a respirable atmosphere.



Training Equipment & Courses

Semmco offer a full training service to our customers around both the safe use and long term care of the product. For teams who are either new to HEAD products or have new staff we offer our 'Train the Trainer' course.

With a maximum of 10 attendees per half day, this interactive course includes demonstrations of the product, Q&A session and a chance to try the equipment using our training sets in a safe environment, so your teams feel confident to use them in any future scenario.

We supply a comprehensive range of training hoods and alarm trainers for our courses, these can then be used by your teams to train others, once they have received Semmco training. Hood replacements are also available if your training equipment is damaged.

For more information please get in touch with one of our sales team.



- Part No.: 802.000.14
HEAD10 Training Set in yellow Bandolier/Carry Case
- Part No.: 802.001.25
HEAD15 Training Set in blue Bandolier/Carry Case
- Part No.: 802.005.04
HEAD15 RPE/CSRE Training Set Hood Replacement
- Part No.: 802.001.08
HEAD15 RPE/CSRE Demo Unit in blue Bandolier/Carry Case
- Part No.: 802.001.25
HEAD15 RPE/CSRE Training Set in blue Bandolier/Carry Case
- Part No.: 802.002.03
HEAD6 Training Set in yellow Bandolier/Carry Case
- Part No.: 802.001.26
HEAD Alarm Trainer
- Part No.: 000.800.01
Full Day HEAD15 RPE/CSRE Training Course
- Part No.: 000.800.05
Half Day HEAD 10/15/30/6 Training Course
- Part No.: 000.800.01
Full Day HEAD10/15/30/6 Training Course

NB All training courses are subject to the training engineer's travel expenses which can be quoted on request.

Revalidation and refurbishment of training sets on request.

To discuss your requirements, or to request a quote please get in touch with our sales team.

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