

Stage 1:

Automatic audible and visual 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 O₂ into the breathing bag automatically: The chlorate candle will emit five litres of O₂ into the breathing bag. This is to aid the user on their first initial breath.

Stage 3:

Donning and first exhalation, KO₂ removes CO₂ from exhalation breath: The KO₂ activates from the moisture of your exhalation breath. This reaction removes the CO₂ and produces O₂, 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 O₂ from the breathing bag: The O₂, produced from the KO₂, 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 that 2/3 of the sets duration has passed. 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 in a safe respirable atmosphere.



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.: 802.000.15
HEAD Escape Training Set in orange bandolier/carry case
- Part No.: 802.001.25
HEAD 15 Working/Rescue Set in blue bandolier/carry case
- Part No.: 802.001.25
HEAD 15 RPE/CSRE Training Set in blue bandolier/carry case
- Part No.: 802.001.08
HEAD 15 RPE/CSRE Demo Unit in blue bandolier/carry case
- Part No.: 802.005.04
HEAD 15 RPE/CSRE Training Set hood replacement
- Part No.: 802.001.26
HEAD Alarm Trainer Unit
- Part No.: 000.800.06
Full Day HEAD 10/15/30 Escape Set Training Course - Industry
- Part No.: 000.800.05
Half Day HEAD 10/15/30 Escape Set Training Course - Industry
- Part No.: 000.800.01
Full Day HEAD 15 Working/Rescue Set Training Course
- Part No.: 000.800.01
Full Day HEAD 15 RPE/CSRE Training Course

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

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Intelligent Engineering



protecting individuals working
in hazardous environments with
innovative breathing apparatus



WORK | ESCAPE | RESCUE

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 cylinder.

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

HEAD products are supplied in either an orange or blue bandolier/carry case that is discarded when the set is used.

- Automatic start - instant O₂ supply for up to 30 minutes, depending on model choice
- Maintenance free for 12 years, with revalidation at 6 & 9 years, lower through life cost than our competitors
- Ideal for confined spaces - no bulky cylinder to carry
- Lightweight (1.6kg) & easy to operate - only half day training required for your teams
- Unique latex neck seal & oronasal mask design - no face mask fit test required
- Panoramic visor allowing optimum vision from hood
- No mouth piece to restrict communication whilst wearing hood
- Audio & visual safety alarm indicating low oxygen level to user
- Option to buy or hire the equipment

EN 13794 - PPE Regulation (EU) 2016/425 - ATEX Directive 94/9/EC



Right: HEAD breathing apparatus

HEAD¹⁰ ESCAPE SET **HEAD¹⁵** ESCAPE SET **HEAD³⁰** ESCAPE SET



HEAD 10/15/30

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 supplied in an orange bandolier/carry case that is discarded when the set is used.

- Part No.: 802.000.19
HEAD10 Escape Set orange bandolier/carry case
Size: 330x190x140mm. Weight: 2.4kg
- 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



HEAD 15

Following customer requirements for a rescue set providing longer duration, HEAD15 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 HEAD15 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.: 802.001.10
HEAD15 Work/Rescue Set in blue bandolier/carry case
Size: 335x300x165mm. Weight: 3kg
- Part No.: 802.001.20
HEAD15 RPE/CSRE in blue bandolier/carry case
Size: 335x300x165mm. Weight: 3kg

Training equipment on request
Revalidation and refurbishment on request