A HERITAGE OF INNOVATION

The Survitec Group has over 150 years’ experience in the design and manufacture of leading-edge products developed to protect the war fighter in every environment. With unparalleled commitment to innovation, the Survitec Group is internationally recognised as the world leader in the manufacture of high quality safety and survival clothing for defence and military personnel. Survitec’s multi-discipline approach and proven world class Lean production facilities ensure that every demand is catered for, from initial concept, design, qualification and manufacture to delivery and in service customer support. All Survitec products are fully supportable and maintainable in theatre with integrated logistics support provided direct to the maintainer through global supply channels.

Survitec has pioneered submarine escape technology, introducing full garment protection as alternatives to Davis Equipment and Steinke Hood as far back as 1952. Innovative, design based and fully validated improvements saw the introduction of SEIE Mk10 in 1990, the world’s first integrated Submarine Escape Suit & Liferaft combination. The SEIE Mk11 continues this unrivalled tradition of innovation.*
WE SET THE STANDARDS OTHERS ASPIRE TO ACHIEVE

Our commitment to innovative design ensures that we have the most advanced range of safety and survival products in the world. With emphasis on functionality and reliability whilst minimising bulk and weight burden, Survitec Submarine Escape & Immersion Equipment (SEIE) solutions are currently in service with over 30 international Navies and have regularly proven their operational readiness during ESCAPEX.

SEIE Mk11 is a full body garment designed for pressurised tower escape with a fully integrated single seat liferaft.

The SEIE Mk11 Immersion Suit is:

• The only suit to exceed the known safe depth of escape of 240 metres having been fully instrument tested by QinetiQ to 310 metres

• Able to provide complete peace-of-mind and security, using 30% less air than earlier designs

• The only fully integrated system on the market today, proven to reduce the likelihood of end user CO₂ saturation typically found in more segmented products

• Through partnerships with HABETAS and ISEC, we are the only company capable of ensuring design and functionality optimisation for use with current hood inflation systems, providing future cost efficiencies with zero expense for the end user

SECURITY OF SUPPLY SINCE 1952

• The only business with the capability and expertise gained over 50 years in the industry to credibly offer complete security of supply now and in the future

• We currently supply in excess of 30,000 units of submarine escape equipment with a manufacturing footprint that extends over three continents, including the Americas. We have the logistical capacity and technical know-how to continue at this pace while improving our offering
SEIE Mk11

Improvements

Our latest generation submarine immersion suit encompasses many improved design features to boost operational functionality whilst reducing burden on the end user and maintainer. Built with improved thermal protection, we retain a one size fits all garment by employing new and improved sizing adjustments.

New advanced design offers increased protection and survivability

- Unique laminate liner offers increased thermal protection and durability
- In-built lifejacket stole provides improved surface survivability
- New 3-in-1 polar fleece headover improves thermal management of head, neck and face regions
- Improved hood inflation system

- Non-slip thermal soles for added protection
- Superflex Neoprene gloves with improved dexterity and thermal properties, stowed in external accessory pocket
- A training model is also available, suitable for multiple use

Unique approach improves functionality and product output

- Larger ascent hood view panel gives greater visibility during flood and ascent phases
- Ascent hood includes patented “rip-zip” for rapid CO₂ venting on the surface
- Extended torso and leg adjustment straps give enhanced sizing control and the efficient gathering of excess material
- Design changes to the ankle and foot profile allow easier donning while wearing Navy issue footwear
- The improved design shows in the overall improved comfort, fit and functionality of the SEIE Mk11
- The SEIE Mk11 is capable of exceeding the known escape depth, tested (unmanned) to 310m and validated by QinetiQ
Radical stole design optimises operational capability

- A new unique self-righting stole design has been developed to withstand twice the pressure of existing equipment
- Patented Mk6 Automatic Stole Relief Valve enhances stole inflation, guaranteeing the stole/hood remains fully inflated all the way to the surface
- Improvements to the YPFC and enhanced hose positioning improves air flow and overall operational performance of the ascent stole, allowing for controlled stole/hood inflation
- Integral lifejacket style stole provides over 170N buoyancy and increases freeboard. SEIE Mk11 is suitable for surface abandonment negating the need for secondary equipment or storage

Meticulous packaging and storage design optimises product longevity while minimising bulk

**Thermal liner** – The thermal liner is packed in a separate hermetically sealed foil envelope to aid protection and logistics with a new metallised polyethylene laminate material, giving excellent thermal protection and high durability. Can be worn over normal service wear.

**Valise** – Durable flame resistant fabric is used for the outer valise material with an inner lining manufactured from a composite metallised polymeric film with encapsulated air gaps to protect the packed assembly.

**Storage** – Optimised for on vessel storage – standard configuration packed dimension.

**Packed dimensions** – 345mm x 320mm x 180mm

Sizes can be configured to suit customer requirements.

WE SAVE MORE LIVES...
Liferaft function
A larger enhanced liferaft is a significant breakthrough which doesn’t impact on the strict control parameters imposed on submarine storage while maximising survivor space.

Features and benefits

Vastly increased survivor protection and comfort
- The new larger liferaft design enables the foetal position to be sustained for longer periods at sea
- The inflatable floor provides improved insulation

Cutting-edge materials enhance durability and maximise product longevity
- Modern, lightweight, more durable fabrics have been selected throughout
- Flame resistant fabric has been used for the outer valise material with an inner lining manufactured from a composite metallised polymeric film with encapsulated air gaps to protect the packed assembly
- Heavy duty foil barrier material is used to hermetically seal the assembly from external liquid damage and incorporates a new quick release zip design

Additional design improvements
- Colour coded firing and painter handles
- The attachment method connecting the SEIE Mk11 suit to its liferaft has been improved, aiding comfort and reducing the snagging hazard