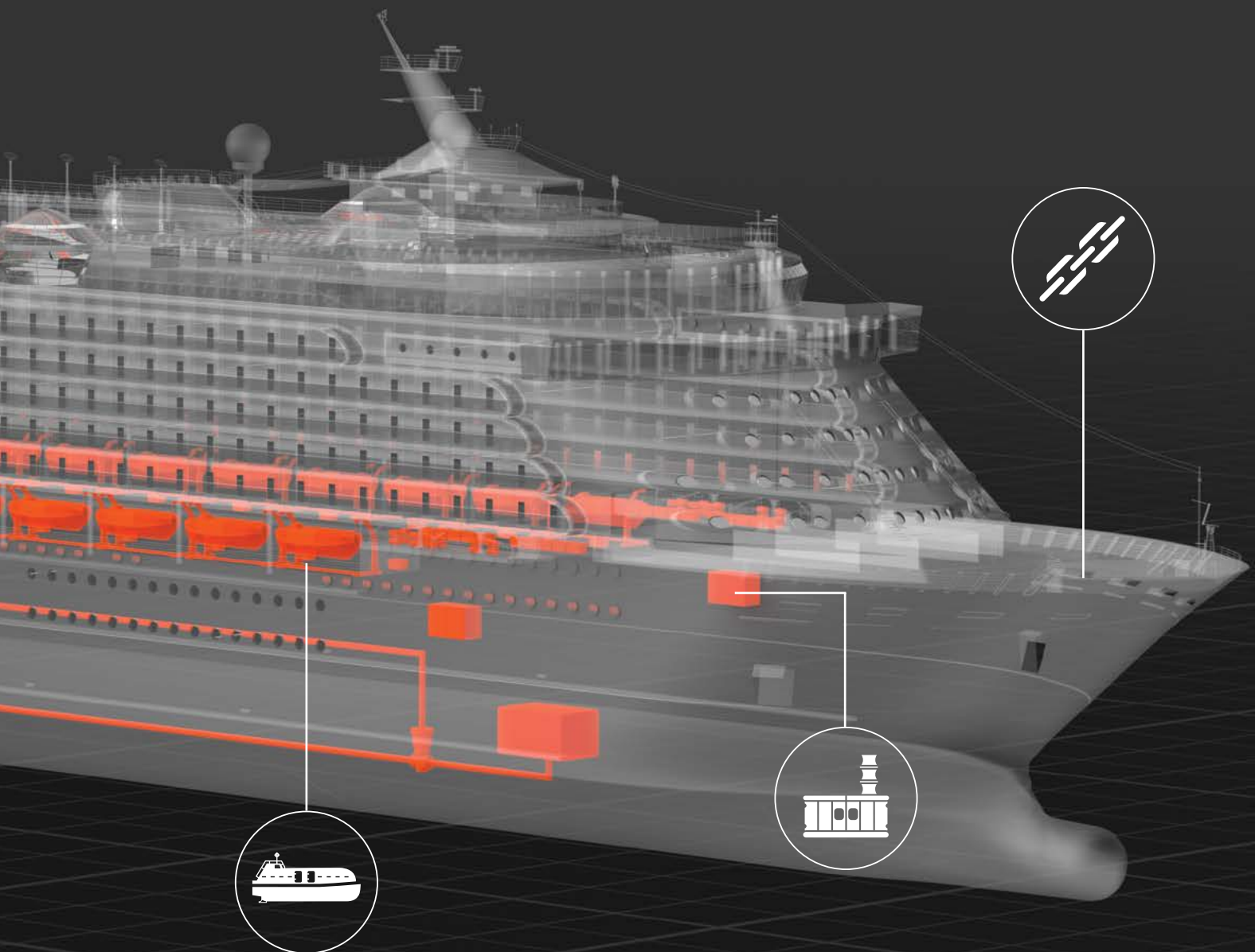


survitec

# CRUISE SAFETY CATALOGUE

THINKING BEYOND COMPLIANCE



# OUR VALUES

1

SAFETY AND REDUCING  
RISK IS INTEGRAL TO  
EVERYTHING WE DO

2

WE ARE COMMITTED TO  
DELIVER REAL VALUE  
AND CONFIDENCE TO  
OUR CUSTOMERS

3

WE CARE FOR  
OUR PEOPLE AND  
INVEST IN THEIR  
DEVELOPMENT AS  
INDIVIDUALS AND  
TEAMS

4

WE AIM FOR  
EXCELLENCE IN  
EVERYTHING WE DO

5

WE SEEK TO  
INNOVATE AT EVERY  
OPPORTUNITY

6

INTEGRITY: WE DO  
WHAT WE SAY WE  
WILL DO

At **survitec**, the foundations of how we act as a business are based on our **values**.

We strive to embed these values of **safety, people, customers, excellence** and **innovation**, all underpinned by **integrity**, in all that we do.

# PROTECTING OVER 1 MILLION LIVES EVERY DAY

When it comes to safety, Survitec is uncompromising. We exist to ensure that you operate with the most appropriate safety and survival equipment for your people and your customers. Our values drive this behaviour each and every day.

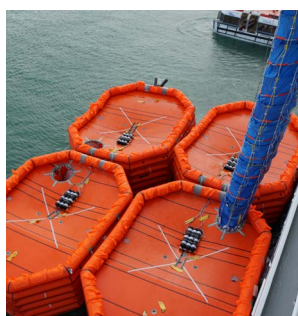
At the heart of Survitec are our people. The collective knowledge, skills and expertise of our diverse global community, made up of best-in-class experts, are critical to fulfilling our vision to be the world's most trusted company for critical safety and survival solutions.

It is why Survitec remains the world's leading manufacturer and supplier of safety and survival solutions worldwide, at the forefront of innovation, design, and application engineering.

Our rich heritage, dating back over 160 years, has earned Survitec a reputation as a trusted safety partner for operators worldwide, consistently delivering world-class safety solutions of value. Focusing on delivering exceptional levels of safety, reliability, and compliance, that go above and beyond the industry standard.

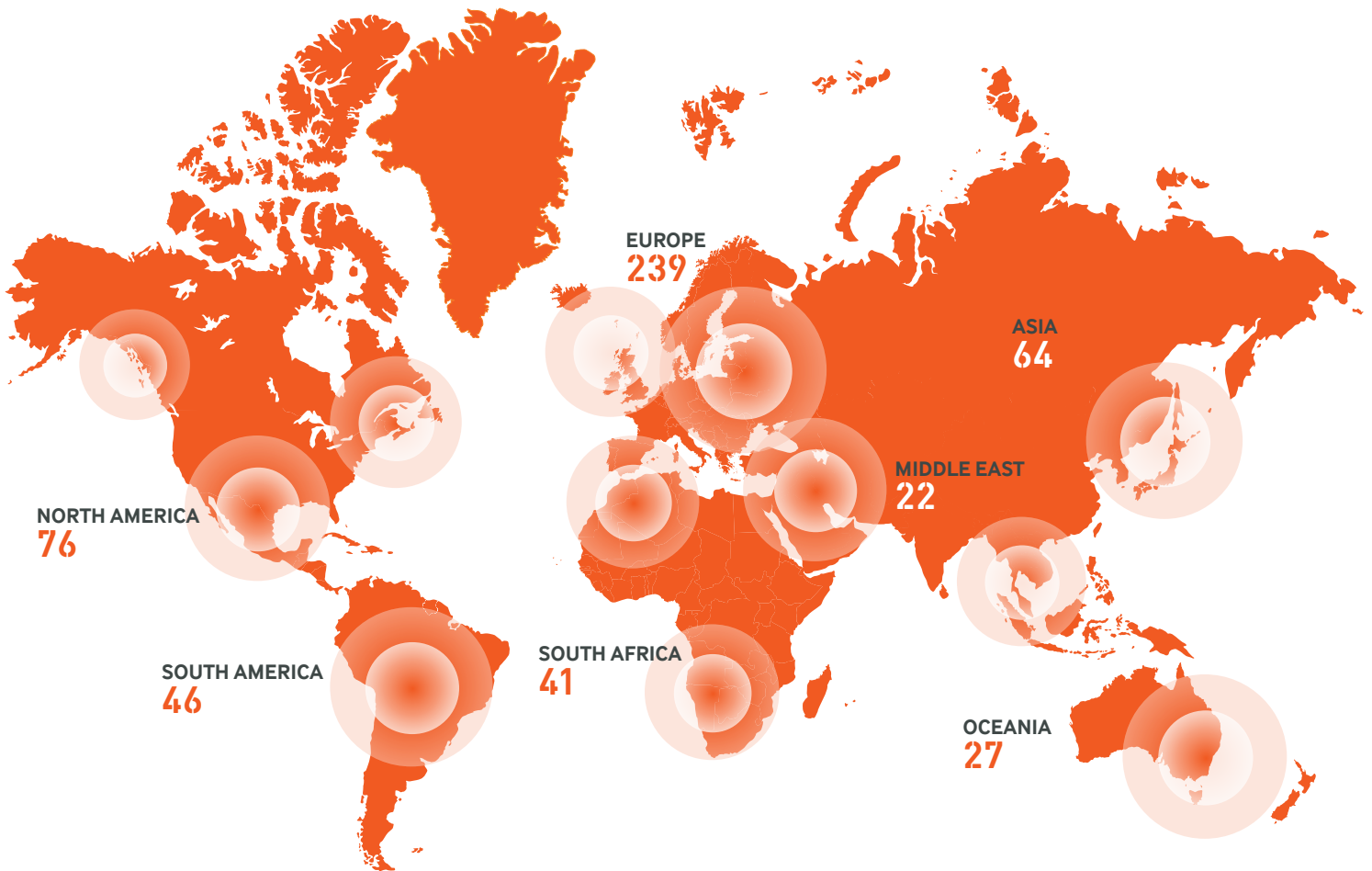
Whether you require complete safety asset supply and management solutions or one-off product sales or services, our dedicated teams are always ready to support you to find the right solutions for your business.

## #SurvitecForLife



# DEDICATED GLOBAL SUPPORT

WORLD'S LARGEST SUPPLY AND SERVICE NETWORK



- 3000+ EMPLOYEES
- 700 TRAINED SERVICE ENGINEERS
- 8 MANUFACTURING FACILITIES
- 12 OFFSHORE SUPPORT LOCATIONS
- 70 LOCATIONS
- 410+ ACCREDITED SERVICE STATIONS
- COVERAGE AT 2,000 PORTS WORLDWIDE
- INTERNATIONAL PRESENCE IN 96 COUNTRIES
- 3 DNV-GL CERTIFIED TRAINING CENTRES



## **SAFETY IS OUR MISSION**

Proudly obsessive about safety and survival, it is our mission is to keep people as safe as possible when on the water. Throughout Survitec's proud 160-year history, we have pioneered products that have re-engineered the way people think about safety at sea, from the original flotation life preserver to the first submarine escape suit; the initial welded liferaft to the world's first marine evacuation system.

Our innovations span not only across the products we supply, but the services we offer, and how we deliver them. Survitec's global cruise team is dedicated to bringing the industry's most advanced solutions to market, and our dry dock management offering is no exception. Designed specifically for owners and operators of passenger vessels, we recognise that all operator needs are different; which is why our dry dock management solution is fully customisable. Survitec have also consolidated a complete portfolio of specialised training programmes to support the critical safety and survival equipment systems for cruise operators and their crew. Our one of a kind, bespoke training solutions are designed to blend insight with practical application.

As a complete safety solutions provider, Survitec will take your safety and survival solutions, further and faster than ever before.

---

## **CONFIDENCE IS OUR DRIVER**

Whether your requirements are for one-off product sales or complete safety asset supply and management, Survitec's dedicated teams are always ready to listen to your challenges and are on hand to offer a comprehensive solution, built for your business. We are not only leaders in the cruise industry but are trusted partners to our customers.

What we pride ourselves on the most, however, is our relationship with our customers. When you do business with Survitec, you're not just signing a dotted line; rather, you're gaining a partner. In each lifejacket we sell, marine evacuation system we install, or lifeboat we inspect – we have a dedicated global cruise expert working with you every step of the way. Hand in hand, we'll take your safety and survival solutions, further and faster than ever before.

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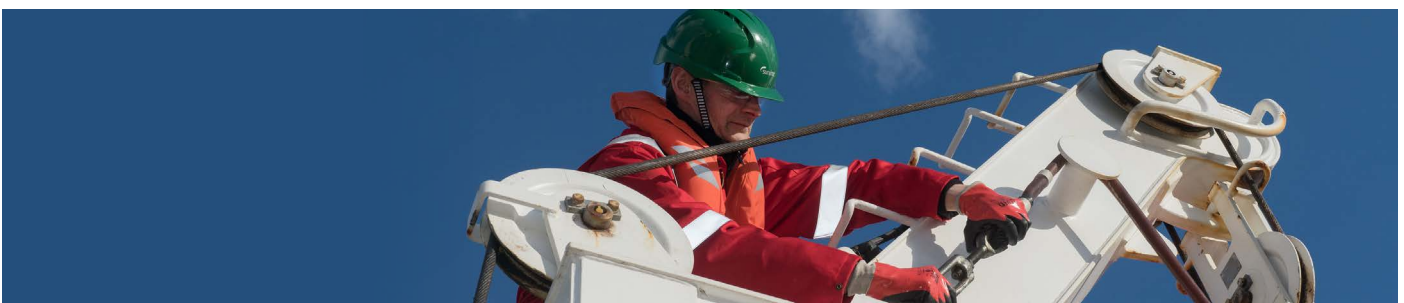
## **PROTECTION IS OUR GOAL**

When it comes to some of the more complex matters, such as SOLAS, re-hooking deadlines, personal lifesaving appliance maintenance requirements, and the overall management of safety equipment, navigating the regulatory landscape is challenging and time consuming. And that's where we come in; Survitec's focus is to make cruise safety asset management simple and to set a new standard for safety asset reliability.

Our dedicated cruise team keep us ahead of the market, ensuring we have the most ground-breaking products and services. Our revolving focus is to identify improvement, pinpoint industry gaps and inefficiencies, and find solutions before they are required to provide cutting-edge technologies for our customers.

Be assured that all our products undergo rigorous quality control testing to meet the highest standards laid out by cruise and maritime regulatory bodies, and with access to over 2,000 ports worldwide, we are committed to providing 24-hour service to meet the needs of the cruise industry. Our global cruise team aims to provide impeccable quality, added value, and immediate access to what our customers need, when they need it.

No matter how progressed our innovations; we aim to think beyond compliance and help our customers achieve more.



# A HISTORIC JOURNEY OF INNOVATION

With over 90 years' industry experience, Survitec is the market leader in the design and manufacture of marine safety equipment. Our mission is to continually strengthen our position as leading global supplier to the maritime industry through customer focus, product and service excellence and technical innovation.

BEAUFORT LTD  
FOUNDED



1854

ORIGINAL  
'MAE WEST' AVIATION  
LIFE PRESERVER



1940

SURVITEC ISSUES  
WORLD'S 1<sup>ST</sup>  
SUBMARINE ESCAPE  
SUIT



1952

WORLD'S 1<sup>ST</sup>  
SYNTHETIC LIFE BUOY,  
THE 'PERRY BUOY'  
INTRODUCED



1960

1932



WORLD'S 1<sup>ST</sup>  
INFLATABLE LIFERAFT  
INTRODUCED

1950



WORLD'S 1<sup>ST</sup> FASTJET  
ANTI-G TROUSERS

1959



WORLD'S 1<sup>ST</sup> SOLAS  
IMMERSION SUIT

1979



WORLD'S 1<sup>ST</sup> MARINE  
EVACUATION SYSTEM  
(MES)



# THROUGHOUT OUR 160-YEAR HISTORY, SURVITEC HAS REMAINED AT THE FOREFRONT OF INNOVATION, DESIGN AND APPLICATION ENGINEERING.

LAUNCH OF THE RFD  
MARIN ARK1



1999

1000 SERIES  
PASSENGER SUIT  
DEVELOPED USING  
NASA TECHNOLOGY



2010

FIRST OFFSHORE  
MES APPROVED



2014

SURVITEC MERGES  
WITH WILHELMSSEN  
MARITIME SERVICES  
AS SAFETY BUSINESS



2016

SURVITEC LAUNCHES  
SOLAS 360 -  
COMPLETE SAFETY  
AND COMPLIANCE  
OFFERING



2018

2001



SURVITEC ZODIAC  
INTRODUCES  
FIRST 150 PERSON  
LIFERAFT

2012



SURVITEC  
LAUNCHES GLOBAL  
SERVICES DIVISION

2015



OFFSHORE  
PASSENGER AND  
AIRCREW TRANSIT  
EBS - FIRST TO  
MARKET HPSTASS -  
LAUNCHED

2017



CREWSAVER  
CELEBRATES 60  
YEARS OF  
INNOVATION

# CONTENTS

## Through Life Capabilities

|                            |         |
|----------------------------|---------|
| New Build                  | Page 10 |
| Dry Dock                   | Page 12 |
| Bespoke Training Solutions | Page 16 |
| C.A.R.E                    | Page 18 |
| Servicing and Maintenance  | Page 20 |

## Marine Evacuation Systems (MES)

|                               |         |
|-------------------------------|---------|
| Marin ARC 2                   | Page 23 |
| Marin ARC 1                   | Page 25 |
| Brude Evacuation System Chute | Page 26 |
| Superslide                    | Page 27 |
| MES Supply Process            | Page 28 |
| MES Crew Training             | Page 29 |

## Liferafts

|                    |         |
|--------------------|---------|
| Survitec Liferafts | Page 31 |
| Training Liferafts | Page 32 |
| Liferaft Rental    | Page 33 |

## Lifeboats and Re-hooking

|                                       |         |
|---------------------------------------|---------|
| 12.3 T Safelaunch ROCLOC Release Hook | Page 35 |
| Liferaft and Lifeboat Davits          | Page 36 |
| Lifeboat Re-hooking                   | Page 40 |
| Lifeboat Inspection                   | Page 41 |
| Lifeboat Services Offered             | Page 42 |
| Lifeboat Equipment                    | Page 43 |

## Personal Lifesaving Appliances (LSA)

|                  |         |
|------------------|---------|
| Gas Lifejackets  | Page 45 |
| Foam Lifejackets | Page 48 |
| Protection Suits | Page 51 |
| Drysuits         | Page 53 |
| Storage Cabinets | Page 53 |
| Accessories      | Page 55 |
| Recovery Devices | Page 61 |
| Ladders          | Page 63 |

## Personal Protection

|                              |         |
|------------------------------|---------|
| Compressed Air Breathing     | Page 66 |
| Escape Hood                  | Page 71 |
| Spill Kits                   | Page 71 |
| Gas Detection                | Page 72 |
| Chemical Protection          | Page 74 |
| Helmets                      | Page 75 |
| Body Harnesses and Lifelines | Page 76 |

## Fire Extinction

|                                |          |
|--------------------------------|----------|
| Fire Systems                   | Page 79  |
| Fire Extinguishers             | Page 86  |
| Wheeled Fire Extinguishers     | Page 94  |
| Fire Extinguisher Cabinets     | Page 98  |
| Fire Hoses                     | Page 99  |
| Fire Blanket                   | Page 101 |
| Fittings Couplings and Nozzles | Page 103 |
| Accessories and Spares         | Page 105 |

## Fire Protection and Detection

|                          |          |
|--------------------------|----------|
| Personal Fire Protection | Page 118 |
| Axes                     | Page 119 |
| Fire Helmet              | Page 121 |
| Firefighters Line        | Page 122 |
| Fire Equipment Cabinet   | Page 122 |

## Emergency Communication

|              |          |
|--------------|----------|
| Pyrotechnics | Page 124 |
| Epirbs       | Page 128 |
| SARTs        | Page 130 |
| Radios       | Page 132 |
| Signage      | Page 133 |

## First Aid and Medical

|                         |          |
|-------------------------|----------|
| Defibrillators          | Page 135 |
| Stretchers and Waterjel | Page 136 |

## Transfer and Escape

|                    |          |
|--------------------|----------|
| Descent Devices    | Page 138 |
| Helideck Equipment | Page 139 |

## Industrial Capabilities

|                    |          |
|--------------------|----------|
| Our Capabilities   | Page 141 |
| Our Qualifications | Page 143 |
| Rope               | Page 145 |

\*We aim to stock all products marked in bold with an asterisks throughout this brochure at our key locations.





# YOUR TRUSTED SAFETY PARTNER FOR NEW BUILDS

## COMPLIANCE, QUALITY, EXPERTISE -



**When building a new vessel there are several things to consider, like a jigsaw with many pieces that all need to work together. Safety of course will be high on the list for any vessel or operation type.**

At Survitec, we aim to make the supply of all safety equipment required for your new build project as efficient as possible, and we understand that what matters is both the reliability of delivery, continuity, compliance, expertise, the quality of the product supplied and most importantly value for money.

We also understand that owner/operators need to not only consider the initial supply but a long-term safety service solution. Our innovative product designs, competitive pricing solutions, SOLAS 360 complete offering and ongoing service solution provide the winning formula.

# SHORT DELIVERY TIME AND VALUE FOR MONEY FOR YARDS

## ONGOING THROUGH LIFE SAFETY SUPPORT FOR OWNERS AND OPERATORS

### EFFICIENT

- One point of contact globally
- Full team of technical sales managers to offer technical support and regulatory advice
- Team equipped to deliver full project management
- Full range of loose and fixed safety equipment option

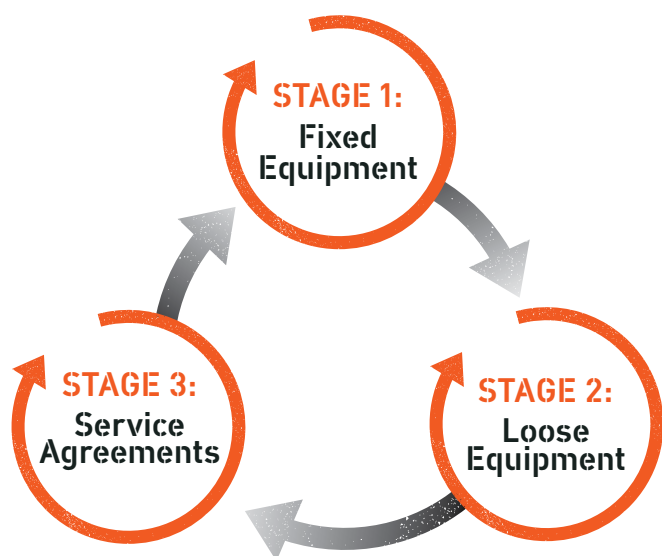
### RELIABLE

- On-time delivery and consistency of supply
- Market leading, high specification product design
- Highly experienced and qualified service engineers
- World leading brands with unmatched reputation
- Engineering and service report completed, designed to meet the needs of the vessel

### COST EFFECTIVE

- Solutions within budget
- Value for money

### SIMPLIFYING THE FULL SAFETY LIFECYCLE



# CUSTOMISABLE DRY DOCK MANAGEMENT SOLUTION

## THINKING BEYOND COMPLIANCE, TO HELP YOU ACHIEVE MORE



Survitec's global cruise team is dedicated to bringing the industry's most advanced solutions to market, and our dry dock management offering is no exception. Designed specifically for owners and operators of passenger vessels, we recognise that all operator needs are different; we have therefore designed a dry dock management solution that is fully customisable.

There are many things to consider when arranging a vessel dry-docking requirements including; location, quality, timescales, cost, service scope as outlined by the flag and class approval authority, and where applicable, the original equipment manufacturer (OEM). In addition, the many items of products and spare parts that need to be purchased must be considered, which can often result in needing to use multiple suppliers.

As a complete safety solutions provider, we will work to oversee your full safety requirement, eliminating the need to use multiple suppliers, significantly reducing the complexity behind the dry dock. Survitec actions this through proven processes, tight controls, good preparation, and close supervision; overall ensuring exceptional results. To help make this process as easy and efficient as possible, we also offer a dedicated project manager, who will ensure that your dry dock is managed effectively and delivered on time.

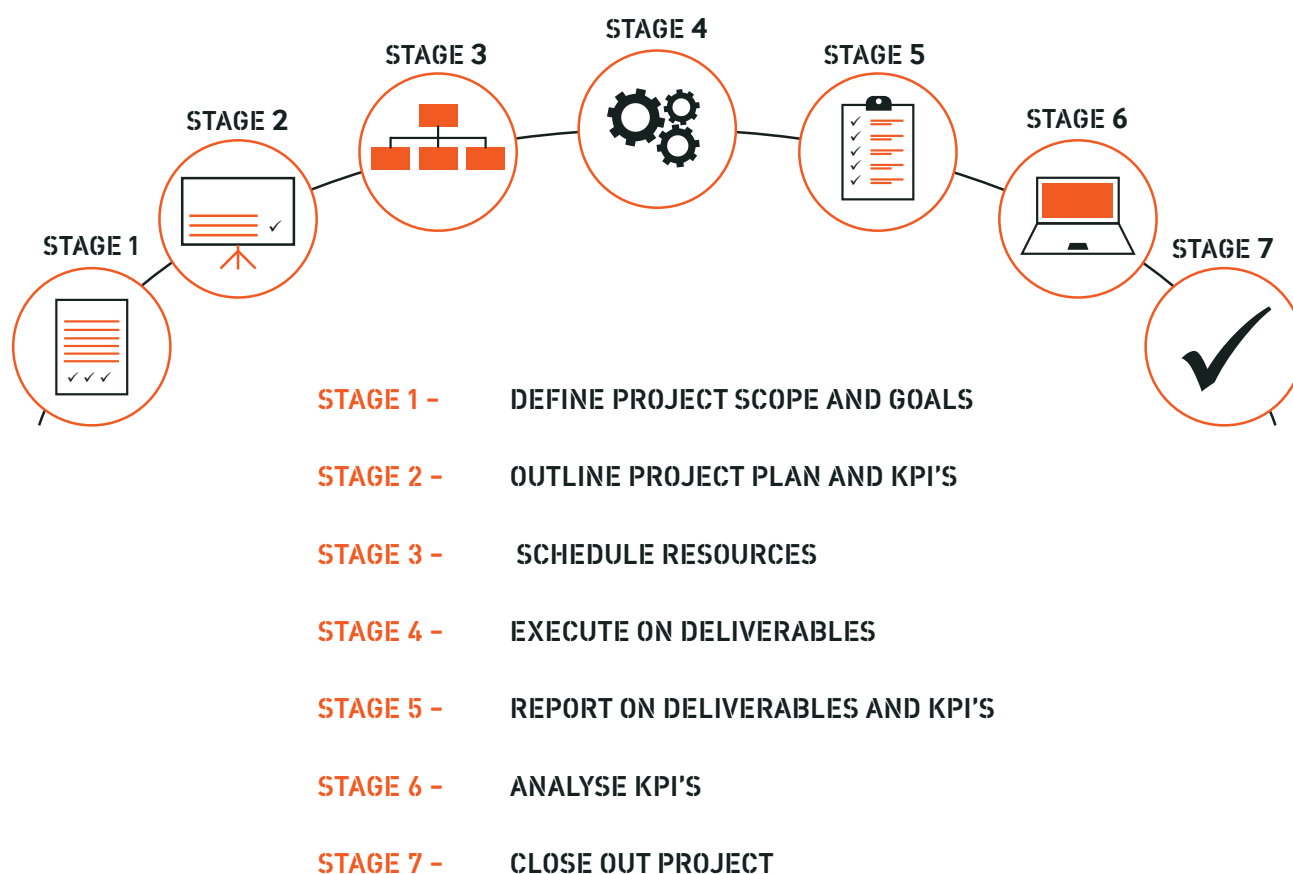
## THE REQUIREMENT

Dry docking is a major project and critical part of a vessels overall maintenance policy regarding safety. As per SOLAS requirements, all merchant vessels require a complete inspection of the hull in a dry dock twice within a 5-year period and the intermediate survey must not be more than 36 months. This includes maintenance of hull, propeller, rudder, and the other parts of the vessel which are immersed in water, and inaccessible by ship staff at a normal sailing period.

For passenger vessels, the inspection of the ship’s bottom is required annually. Two of such inspections in a period of five years must be carried in dry dock, and the maximum interval between these inspections should be 3 years for vessels older than 15 years. Newer vessels may attend dry dock once every 5 years.

## TRUSTED EXPERTISE ALONG THE WAY

Start to finish, Survitec holds your dry dock project to the highest standards, to ensure added value, and provide an unparalleled customer service experience. To keep communication simple, your project manager will be your go-to source for all questions related to servicing, scheduling, finance, and follow-up. Once we define your specific needs for the vessel(s), we will map out a strategic scope of work and concise project plan. The process looks like this:



## APPROVALS

Survitec is the OEM, supplier and training provider for a number world leading brands including; RFD, DSB, SurvitecZodiac, Crewsaver, Maritime Protection, Novenco Fire Fighting, and more. Working with Survitec gives you direct contact to the OEM, helping to ensure a prompt and accurate response. As a multi-brand provider, we work with several suppliers and can provide supply, service, and training needs for brands outside of our own portfolio. In addition to the global leading OEM approvals, Survitec provides strong 3rd party approvals, Class and Flag approvals.

Survitec has invested heavily in developing Consistent Global Delivery Strategies, and as such have secured a Global Z17 Approval for key services from DNV-GL. This approval is targeted to extend to Lloyds, ABS and RINA over the coming 6 months. As a recognised quality service provider, we also provide safety service for other brands to get 3rd party approvals.

### OUR CAPABILITIES

Survitec dry-docking capabilities span all areas, including lifeboats and davits, marine evacuation systems and liferafts, fire systems, industrial appliances, and water solutions. We cover both major and minor maintenance and inspection to meet your 10 and 5 yearly service and inspection requirements as required.

Dry-docking specific scope of service, Survitec can offer:

- ✓ Retro fitting and upgrade programs of fixed and non-fixed equipment
- ✓ Lifeboat canopies fabrication
- ✓ Engine and engine components overhaul
  
- ✓ Lifeboat GRP repairs, hull integrity restoration /water intrusion
- ✓ Lifeboat cosmetic overhaul solutions
- ✓ Lifesaving appliances complete overhauls
- ✓ Marine evacuation system retrofit solution
- ✓ Fix FFE system(s) overhaul solutions
- ✓ Lifesaving & Lifting appliance wire ropes & mooring ropes solutions
- ✓ Emergency towing system solutions
- ✓ Mooring Winches Overhauls
- ✓ Lifting Appliances, Cranes and Structures
- ✓ Cargo handling equipment Overhauls
- ✓ Height Rescue Solutions
- ✓ Lifting Accessories
- ✓ Hydraulics Lifting
- ✓ Specialist Lifting
- ✓ Non-Destructive Testing
- ✓ Load testing
- ✓ Rigging Equipment Solutions
- ✓ Technical Services
- ✓ Asset Management



### DRY-DOCKING HUBS

Survitec have strategically located a number of service centre locations alongside the world's major dry-docking facilities, helping to aid in a quick and efficient service and the intimate relationship needed.

Survitec dry dock locations include:

- ✓ Seaspan, Vancouver
- ✓ Victoria Shipyards, Canada
- ✓ Vigor Industries, Portland
- ✓ Detyens Shipyard, Charleston
- ✓ San Giorgio del Porto, Italy
- ✓ Chantier Naval de Marseille, France
- ✓ Navantia Cadiz, Spain
- ✓ Blohm & Voss, Hamburg
- ✓ Lloyd-Werft, Bremerhaven
- ✓ Sembawang Shipyards, Singapore
- ✓ Grand Bahamas, Freeport



Our global cruise team aims to provide impeccable quality, excellent cost-savings, and immediate access to what our customers need, when they need it. We look forward to showing you how we think beyond compliance, to help you achieve more. **"We're with you every step of the way to ensure the job is done right."**



# BESPOKE TRAINING SOLUTIONS

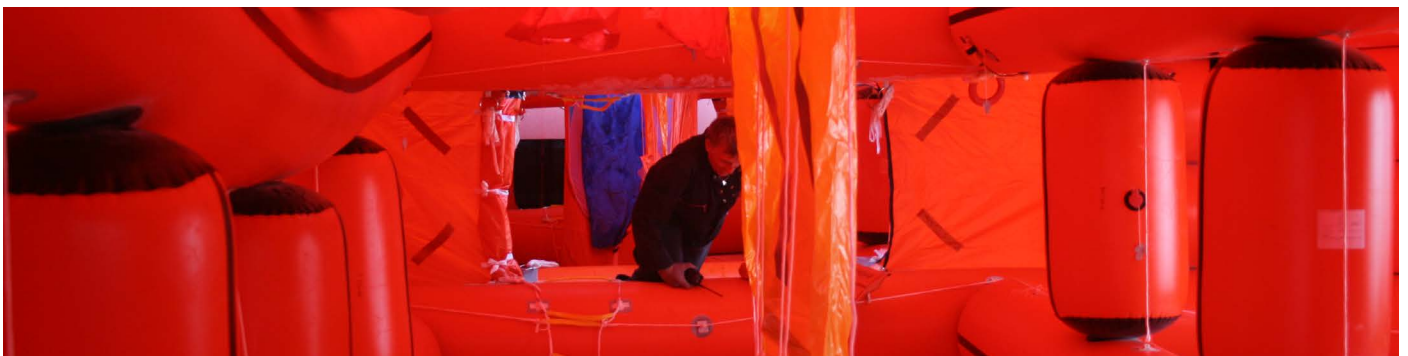
## BLENDING INSIGHT WITH PRACTICAL APPLICATION



Purchasing your safety equipment is only the start of your relationship with Survitec. We not only want to equip your vessel with the best marine safety equipment onboard, but also want to ensure you are safe in the knowledge that your cruise operators and their crew know what to do should they unexpectedly have to use your safety equipment in an emergency. In support of this mission, we provide customers with bespoke training solutions.

Survitec have consolidated a complete portfolio of specialised training programmes to support the critical safety and survival equipment systems for cruise operators and their crew. Survitec's one of a kind, bespoke training solutions are designed to think beyond compliance, whilst keeping the 'human element' in mind. Our training covers the following categories;

- ✓ Lifesaving Appliances (LSA)
- ✓ Firefighting Equipment (FFE)
- ✓ Marine Evacuation Systems (MES)



### WHAT WE OFFER

The typical cost of being held by port state control for non-compliance ranges in the tens of thousands to million-dollar range, which is why our bespoke training solutions are geared towards preventing these costly, and often unnecessary, time-delaying incidents.

Our LSA, FFE and MES training solutions cover the core areas of daily cruise vessel operations, and are delivered by market leading, approved providers; many of whom are former regulators. We focus on creating a class culture that promotes staff engagement in risk mitigation. Additionally, we aim to educate crew on what to look for to ensure constant readiness for port state control inspection. Our overall focus is to help vessels improve operational efficiencies, reduce down time, and increase operational yield per passenger on board.



## PROGRAMME OVERVIEW

Survitec have tailored each course to be efficient and effective, with onboard and ashore theoretical training, to reduce transportation and accommodation costs. In addition, the training provides practical walkthrough exercises and hands on experience. The following is a brief overview of each of our offerings and we are of course happy to customise a training programme if the below does not completely suit.

### LSA Training

- ✓ Gain in-depth understanding of lifeboat recovering and release system, davit, winch and fall wire operations and checks
- ✓ Lifeboat operation, start systems, and causes of lifeboat maintenance related accidents
- ✓ Correct stowage of lifeboat in the davit system
- ✓ Understand safe fitting of maintenance pendants and trickle charge electrical plug
- ✓ Maintenance training on fixed and portable firefighting systems, lifejackets, immersion suits, life buoys, descent units, and liferafts



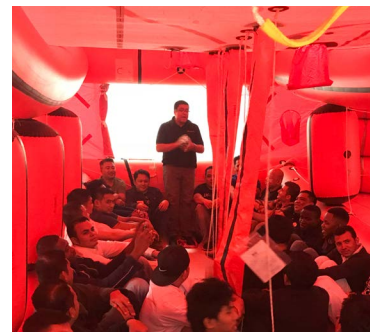
### FFE Training

- ✓ Gain in-depth understanding of fixed firefighting systems onboard vessels and principles for usage
- ✓ Understand marine safety circular service and maintenance requirements
- ✓ Understand inspection criteria during service and common repairs
- ✓ Able to review a service



### MES Training

- ✓ Learn the basics of MES Systems
- ✓ Receive liferaft training – how to use and operate equipment inside the liferaft
- ✓ Preparing crew and passengers for evacuation to the MES
- ✓ Practical evacuation training



## APPROVALS

Survitec is recognised as the most comprehensive global total solutions provider for mission critical safety and survival equipment. We are the original equipment manufacturer, supplier and training provider for a number world leading brands including: RFD, DSB, SurvitecZodiac, Crewsaver, Maritime Protection, Novenco Fire Fighting, and more. As a result, we have all of the necessary OEM approvals required to perform training on both Survitec and third-party equipment. We operate our own inhouse training facilities for both MES and LRRS.

Our team of global cruise experts look forward to meeting with you in person, to further demonstrate our advanced training capabilities and curriculum.

**“Our training programmes blend insight and practical application...to formulate a winning solution”**



# THE CRUISE ADVANCED REGIME FOR EQUIPMENT SERVICING – C.A.R.E.

## AN ENHANCED SERVICING PROGRAMME DESIGNED AND BUILT SPECIFICALLY FOR CRUISE CLIENTS

The Survitec C.A.R.E. package is designed specifically for owners and operators of passenger vessels, and offers a proactive approach to manage safety assets and minimise risk of equipment failure.

With an unrivalled track record providing best-in-class safety and survival equipment to the maritime, defence and aerospace industries, Survitec have a solid foundation in mission-critical level reliability of inspection and maintenance services. Furthermore, several decades of experience serving the cruise industry have provided a valuable insight into the priorities of cruise operators – quality, reliability, and minimum complication with no surprises.

We know that cruise operators are seeking support from their vendors to reduce the complexity and headache of on-board safety. From managing due dates, port calls, asset management or service regimes – Survitec goes beyond the regulatory minimum, and delivers a new standard of safety management.

### What we offer, in addition to peace of mind:

- A customised vessel solution for all equipment types
- A dedicated Total C.A.R.E. Manager to handle all SOLAS compliance obligations and due dates, reviewed quarterly
- Trained, multi-disciplined technicians with a complete SOLAS - overseeing role, per vessel
- Single-click purchase order package for ease of doing business and a fixed price with no surprises
- Tailored customer portal, giving access to all safety assets and compliance data, services completed/due, and spares required



Safety does not end with the purchase and service of compliant equipment, it's only the beginning.



# APPLYING **MILITARY PRECISION** SAFETY SOLUTIONS TO THE **CRUISE INDUSTRY**

Survitec's extensive experience in the highly regulated markets of aerospace and defense is of unique benefit to our maritime clients. For example, we bring our Survitec approach to servicing directly from the aerospace market, using risk assessment methodology to identify weak points and prevent costly and time-delaying incidents. These are the types of surprises no one wants.

We also have a strong track record as prime or mini-prime contractor on multiple global programs, managing the supply chain on behalf of customers and minimising the exposure risk of managing multiple suppliers and category vendors. In our 160+ year history, we have been first to market and remain the market leader in many product segments. Today we continue to lead in liferafts, lifejackets, evacuation systems, fire safety and lifeboats / rescue boats

We have the largest global servicing network in the industry, and a presence in all major cruise ports.



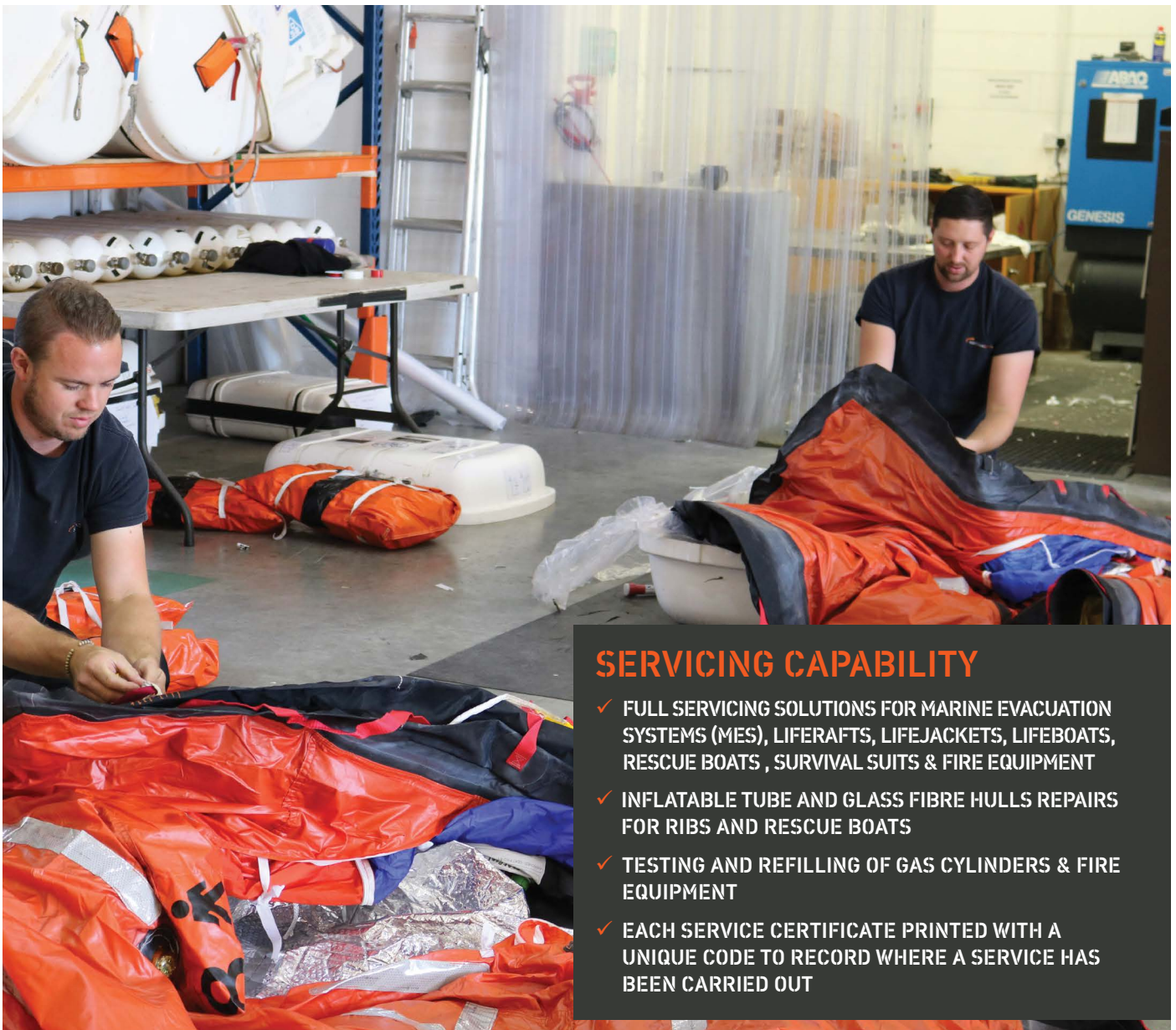
# SERVICING & MAINTENANCE

MARINE EVACUATION SYSTEMS (MES), LIFERAFTS, LIFEJACKETS, LIFEBOATS, RESCUE BOATS, SURVIVAL SUITS & FIRE EQUIPMENT



With over 160 years' experience to our name, we ensure your equipment receives only the very best care and attention throughout its entire safety lifecycle.

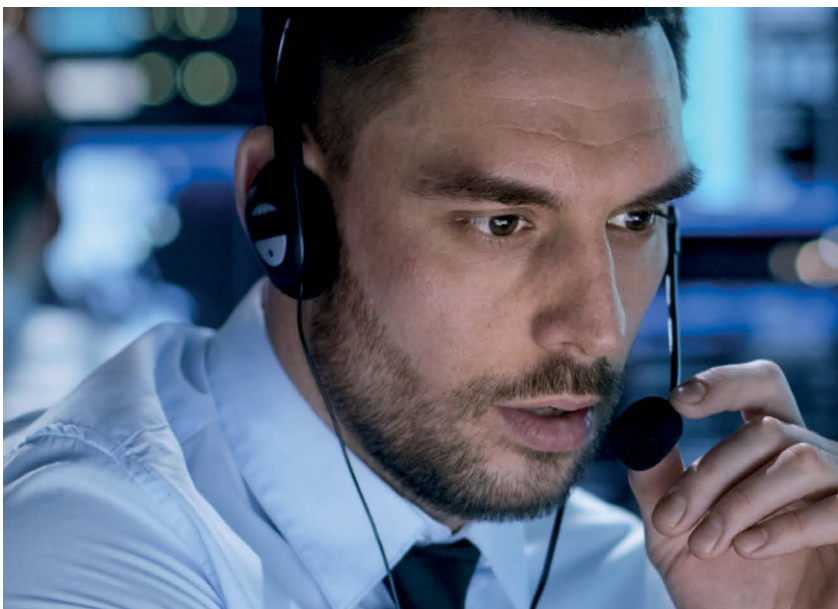
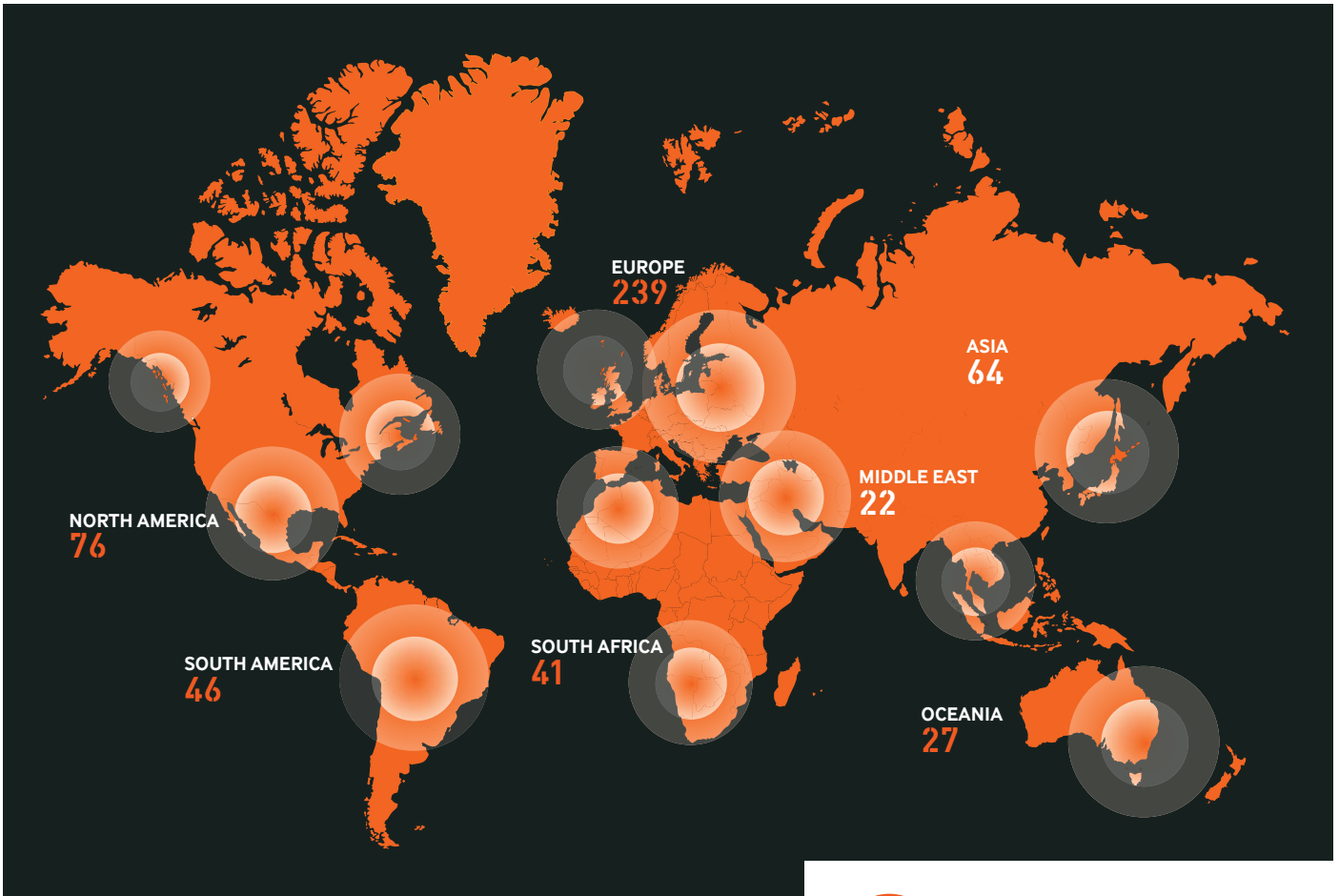
We are the world leader in the supply, inspection, testing and maintenance of safety and survival equipment. Through our network of 500+ accredited service stations, we offer a truly global service covering over 2,000 ports worldwide. We have a renowned reputation for reliability of service and workmanship. Our work is always to the highest standard and our technical ability is continuously being upgraded with the latest equipment, facilities and training.



## SERVICING CAPABILITY

- ✓ FULL SERVICING SOLUTIONS FOR MARINE EVACUATION SYSTEMS (MES), LIFERAFTS, LIFEJACKETS, LIFEBOATS, RESCUE BOATS, SURVIVAL SUITS & FIRE EQUIPMENT
- ✓ INFLATABLE TUBE AND GLASS FIBRE HULLS REPAIRS FOR RIBS AND RESCUE BOATS
- ✓ TESTING AND REFILLING OF GAS CYLINDERS & FIRE EQUIPMENT
- ✓ EACH SERVICE CERTIFICATE PRINTED WITH A UNIQUE CODE TO RECORD WHERE A SERVICE HAS BEEN CARRIED OUT

# DEDICATED GLOBAL SUPPORT - WORLD'S LARGEST SUPPLY AND SERVICE NETWORK



500+ ACCREDITED  
SERVICE STATIONS



COVERAGE AT 2000  
PORTS WORLDWIDE



8 WORLD-CLASS  
MANUFACTURING  
FACILITIES



INTERNATIONAL  
PRESENCE IN 96  
COUNTRIES

# MARINE EVACUATION SYSTEMS (MES)



## PIONEERING THE WAY IN MARINE EVACUATION SYSTEMS FOR OVER THREE DECADES

When it comes to safety, Survitec is uncompromising. From the conception of products through to delivery and installation, passenger safety is of paramount importance. This philosophy has ensured that throughout our 160+ years of industry experience, Survitec remains the world's market leading manufacturer of safety and survival products. Our design teams work tirelessly to continuously improve and extend our MES range of products. The result - a MES portfolio to suit any operator requirements, making Survitec the supplier of choice for many cruise operators globally.

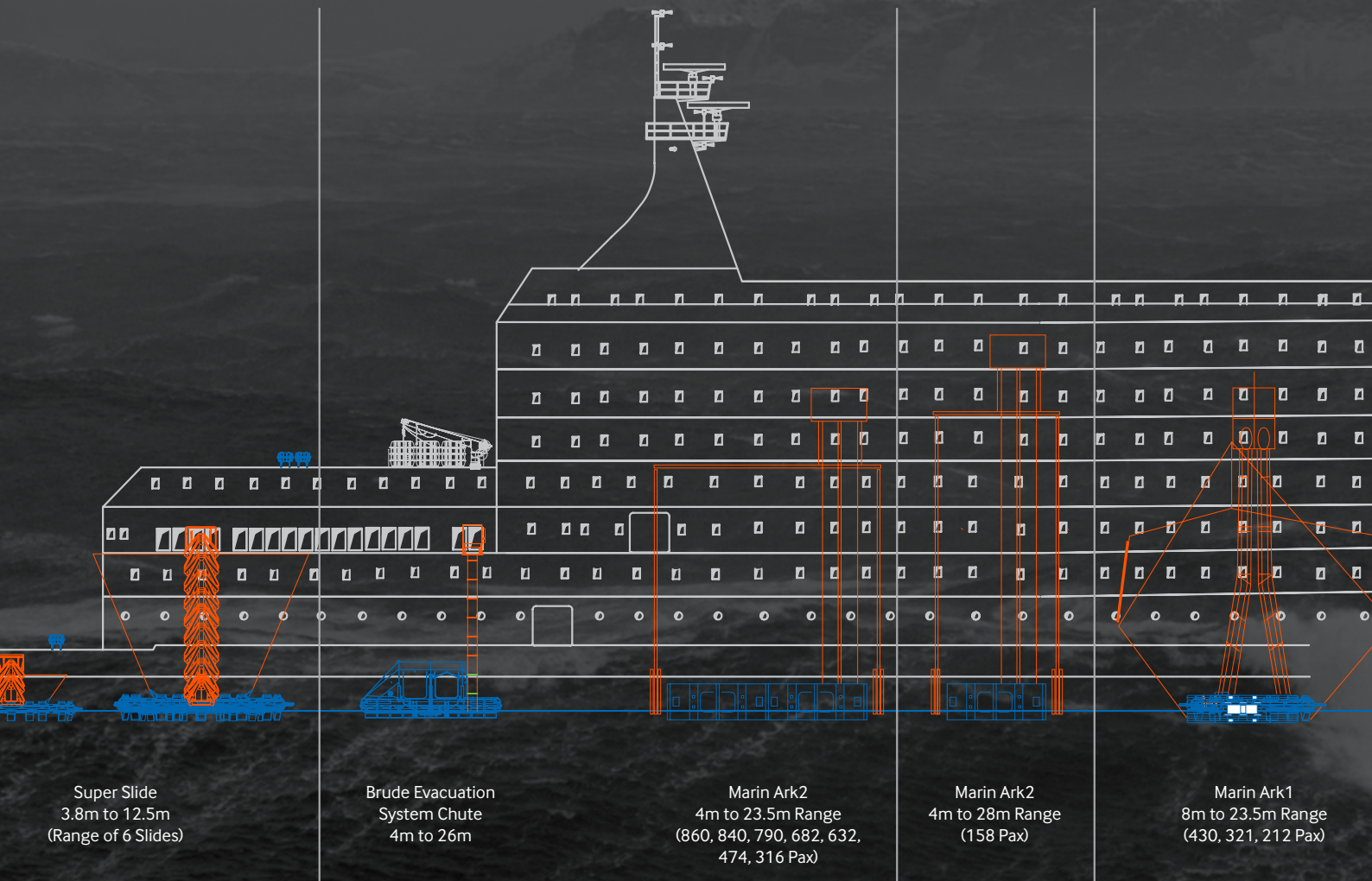


“  
**A MES portfolio to  
suit any operator  
requirements**”

# MARIN ARK 2

Each installation of an MES system is custom-made to suit your vessel requirements. Considerations include vessel weight, type, evacuation height and number of passengers. MES options are available to suit your specific requirements.

| MES SYSTEM | BEST SUITED FOR  | ADVANTAGES   | APPROVALS         | CUSTOMERS EMPLOYING SYSTEM  |
|------------|--|--|-------------------|---|
| Marin Ark  | Large vessels with high freeboard decks, ferries, naval vessels and world-leading ships in the cruise industry | High degree of functionality - twin chutes with fewer liferafts, requires minimal crew to activate and can deploy from up to 28 metres | SOLAS, EC/MED, TC | Princess Cruises, Celebrity Cruises, MSC Cruises, RCCL Cruises, NCL, Dream Cruises, P&O Cruises, Stenaline, P&O Ferries, Vikingline, BC Ferries, Balearia Ferries, Brittany Ferries, Bluestar Ferries, UK Navy, US Navy, Royal Australian Navy, Spanish Navy, Turkish Navy, Danish Navy |



# MES SUPPLY PROCESS

Survitec is the primary design authority for MES having continuously evolved this essential Life Saving Appliance over the last 30 years. With over almost 2000 MES units, onboard 750+ vessels worldwide, Survitec continues to demonstrate its market leading position as a supplier of reliable MES solutions.

Our extensive range of services will ensure the customer is fully supported throughout the supply process. Such services include full consultation and technical services, provision of on-board solution, all supporting technical documentation for class & flag approval, and regulatory compliance.

The service we offer will vary from customer to customer to ensure we cater to your bespoke needs however a typical supply would include the following stages as detailed below.

- Following a quotation request, experienced members of our team would gather all the technical information required for the project.
- A structured proposal would then be prepared which would include the following:



Conceptual arrangement drawing of the MES



Scope of supply and price, to include Commercial Conditions



Technical documentation of the supplied equipment

- Upon receipt of the order, the Survitec engineer will prepare and issue an initial general arrangement drawing with full details of the equipment and their proposed position
- The documents will then be sent to the customer for approval before commencement of the equipment production and supply
- Once complete we would then look to move onto the delivery and commissioning phase
- The delivery and commissioning phase will consist of all or some of the following depending on your requirements:



Installing the MES onboard the vessel



Performing a harbour trial deployment



Briefing of the crew members



Re-packing and reinstalling the deployed equipment







## MARIN ARK 2

8 - 23.5  
metres



<860  
persons



### KEY FEATURES

- ✓ Designed with minimum crew actions to reduce the human element and improve reliability. All primary liferafts inflate & both helical slide path launch together in a single action
- ✓ Dual spiral slide path to the Marin Ark 2 allows for safe, rapid and controlled dry-shod descent for all evacuees
- ✓ Unique slide path design allows for crew ascent where necessary
- ✓ Fully reversible 158 person liferaft design with suspended floor ensures maximum thermal protection
- ✓ Revolutionary bowing system and evacuation slide path designed to meet the challenges of modern wide beam vessels
- ✓ Flexible design allows for installation on the widest range of vessel configurations

### RAPID & SAFE EVACUATION OF UP TO 860 PASSENGERS IN LESS THAN 30 MINUTES

The Marin Ark 2 is one of the largest dry-shod MES in the world. The completely unique design offers carriage for 158 passengers and can be scaled up to accommodate up to 860 passengers if required. Features simple crew actions and robust fully reversible liferaft, with multiple buoyancy compartments providing the utmost stability and safety in the toughest sea conditions.

The innovative helical slide path integrates the benefits of a fully enclosed evacuation chute with the natural descent of a spiral slide - crew members can even ascend to assist other passengers if required. One of the most dynamic design features of this system is the integration of a service winch into the stowage unit. This allows the entire unit to be deposited onto a tug or truck during service periods thus in most cases eliminating the requirement for a crane during service.



## MARIN ARK 1

8 - 23.5  
metres



<430  
persons



### ENSURES UTMOST STABILITY IN THE TOUGHEST HEAVY SEA CONDITIONS

Marin Ark 1 is uniquely designed to ensure utmost stability in even the toughest heavy sea conditions. In the case of an emergency, the system is highly efficient and effective. One simple release action activates the deployment of the system, which is fully inflated and operational within 90 seconds of deployment.

The liferafts are fully reversible, ensuring Marin Ark 1 inflates upright each and every time, and evacuation chutes are fully enclosed ensuring no passenger is exposed to the elements at any time during evacuation.

“  
**ONCE DEPLOYED THE SYSTEM IS UNIQUELY DESIGNED TO ENSURE UTMOST STABILITY IN EVEN THE TOUGHEST HEAVY SEA CONDITIONS.**

### KEY FEATURES

- ✓ Compact all-in-one stowage design requiring minimal deck footprint
- ✓ Liferafts are fully reversible, ensuring the system inflates upright each and every time
- ✓ Evacuation chutes are fully enclosed ensuring no passenger is exposed to the elements at any time during evacuation
- ✓ Stowage design allows for easy system 'swap-out' during service, meaning minimal vessel downtime
- ✓ Available in symmetrical and asymmetrical options, enabling maximum design flexibility
- ✓ Tween deck and open deck stowage solutions also available



## BRUDE EVACUATION SYSTEM CHUTE

EFFICIENT, FLEXIBLE, COST-EFFECTIVE AND EASY TO USE AT HEIGHTS UP TO 26 METRES

The Brude Evacuation System Chute is efficient, flexible, cost-effective, easy to use at heights up to 26 metres, and available in single and double-track formats for increased capacity.

Liferafts and evacuation station with chute are mounted in separate units, accommodating a flexible layout. During deployment system liferafts are dropped and winched into position from the evacuation station. The chute will then be lowered directly into the raft. For increased capacity, additional rafts can be dropped and connected to the system raft.

4 - 26  
metres



**Max capacity single chute:**  
450pax

**Max capacity double chute:**  
600pax

**Available with:**  
50, 102 and 150 person rafts



### KEY FEATURES

- ✓ Available in single- and double-track formats
- ✓ For use at heights of up to 26 metres
- ✓ Zig-zag design offers controlled descent
- ✓ Additional liferafts are connected to system liferafts via an interface
- ✓ Easy to operate
- ✓ Room in the chute for crew-members to descend next to passengers and assist persons that are injured or disabled
- ✓ Service costs for the chute are minimized due to the on-site inspection
- ✓ Freestanding liferafts allows flexible service



## SUPER SLIDE

3.8 - 12.5 metres



**TOSR liferaft:**  
150  
**ORIL liferaft:**  
302 (2x151)  
**LINK liferafts**  
50, 100, 150 persons



### UNIQUE, LIGHTWEIGHT AND SMALL DECK FOOTPRINT

The Superslide, formally known as the Medium Inflatable Slide (MIS) is for vessels with freeboard heights of between 3.8 metres and 12.5 metres, incorporates a twin-track inflatable slide that deploys at right angles to ships' sides.

This system deploys at right angles to the vessel. The Superslide is packed together with either the 100/150 person Throw Over or Throw Over Self Righting canopied liferaft. When supplied for use with 100 Open Reversible liferafts, a second liferaft can be packed into the container so when inflated and bowsed it is immediately available for boarding. A second liferaft can be available for bowsing outboard of the receiving liferaft. Superslide available 3.8 metres to 12.5 metres in a range of five slides.

### KEY FEATURES

- ✓ Simple and quick to install and re-install after service
- ✓ Electric remote release system which automatically performs a complete system deployment
- ✓ Float-free system operates before the water reaches the evacuation deck
- ✓ Max pax with ORIL liferaft is 397 persons in 17 minutes 40 sec
- ✓ Max pax with SOLAS canopied rafts is 750 persons in 30 minutes (fully MED approved)
- ✓ Unique, lightweight and small deck footprint
- ✓ Provides an alternative range of retrofit solutions

# MES CREW TRAINING

Purchasing your safety equipment is only the start of your relationship with Survitec. Not only will we equip your vessel with the very best marine safety equipment, we will also ensure that should you unexpectedly have to use your safety equipment in an emergency, you and your crew know exactly what to do.

In support of this mission we provide customers with 'Crew Training' on our Marine Evacuation Systems (MES) product ranges.

## Training Regulations

All Survitec Crew Training is conducted as per the SOLAS requirement which is defined as follows:

### SOLAS CH III Regulation 19.3.3.8

*If a ship is fitted with MES, drills shall include exercising of the procedures required for the deployment of such a system up to the point immediately preceding actual deployment of the system. This aspect of drills should be augmented by regular instruction using the onboard training aids required according to 35.4. Additionally, every system party member shall, as far as practicable, be further trained by participation in a full deployment of a similar system into water, either onboard a ship or ashore, at intervals of no longer than two years, but in no case longer than three years. This training can be associated with deployments required by regulation.*



## WHY SURVITEC

- Survitec have been providing MES systems training to passenger crews since 2003
- Survitec is the chosen training provider for the world's largest passenger ferry company
- Our Chief Technical Trainers have worked with over 5,000 crew worldwide and bring with them a wealth of experience
- Our fully equipped training facilities give your crew practical, hands-on experience
- We have a 100% customer satisfaction rate
- Our MES training service is available at multiple locations globally to suit customer demand

## What's Involved

We aim to provide MES Crew Training that is as practical as possible, this helps make sure that should the worst happen you are as familiar with the safety equipment onboard your vessel as you can be. A typical MES Crew Training day would start with a small amount of classroom work followed by a number of practical exercises including:

- MES operating sequence, deployment and evacuation cycle
- Emergency equipment familiarisation
- Pyrotechnics and electronics
- Liferaft familiarisation
- Passenger safety management
- Lifejacket donning
- Participant descent
- Stretcher descent
- Carry techniques
- Crisis control
- System abandonment

We run our training sessions with a maximum of 36 participants per session, a minimum of 20 participants are required to run the training session.

## Certification

On successful completion of the MES Crew Training course each crew member will be awarded a training certificate to help note and record their successful completion of this training course.



# LIFERAFTS

With over 160 years of technical expertise, Survitec is world-renowned for the design and manufacture of reliable and innovative liferaft solutions.

Within our portfolio we offer some of the most trusted brands available including; RFD, SurvitecZodiac and DSB. Every brand shares the same key focus; ensuring Survitec offer customers market longevity, quality and manufacturing excellence.

In addition we offer unmatched after-market solutions. We offer the largest service network across key ports and locations globally, helping to ensure efficient provision of your complete safety solution.



“Offering customers market longevity, quality and manufacturing excellence”

# SURVITEC LIFERAFTS

- Fully enclosed double-skinned high-visibility canopy complete with retro-reflective tape
- Non-inflatable easy access boarding ramp
- High volume water pockets to ensure maximum stability when inflating
- Canopy fitted with LED light ensuring maximum visibility
- Fully insulated floor to ensure maximum thermal protection
- Stowed in lightweight, streamlined Glass Reinforced Plastic (GRP) containers enabling maximum deck space utilisation – various container options available
- Available with SOLAS 'A' and 'B' emergency pack configuration
- Sizes 12-35 also available as davit launch options
- Grey and black container colour options available on request



|                        |                     | LIFERAFTS PURCHASED BY BRAND |                           |                              | LIFERAFT RENTAL                                     |  |
|------------------------|---------------------|------------------------------|---------------------------|------------------------------|---|--|
|                        |                     | Product Number               |                           |                              | Product Number                                      |  |
| Type of Raft           | Product Description | RFD<br>(12 month service)    | DSB<br>(12 month service) | Zodiac<br>(12 month service) | Extended Service Rental (ESR)<br>(30 month service) | Liferaft Rental Exchange (LRE)<br>(12 month service) |
| Throw Over Board (TOB) | 6P TOB Liferaft     | 00008359                     | 00008489                  | Z1560S-36                    | 759306  | 759092   |
| Throw Over Board (TOB) | 8P TOB Liferaft     | 00009400                     | 00009427                  | Z1562S-36                    | -   | -  |
| Throw Over Board (TOB) | 10P TOB Liferaft    | 00100064201                  | 00010420                  | Z1564S-36                    | 759310  | 759118   |
| Throw Over Board (TOB) | 12P TOB Liferaft    | 00100064301                  | 00011578                  | Z31182S-36                   | 759312  | 759126   |
| Throw Over Board (TOB) | 16P TOB Liferaft    | 00041565                     | 00041496                  | Z1568S-36                    | 759316  | 759134   |
| Throw Over Board (TOB) | 20P TOB Liferaft    | 00012644                     | 00012631                  | Z1570S-36                    | 759320  | 759142   |
| Throw Over Board (TOB) | 25P TOB Liferaft    | 00013763                     | 00013685                  | Z1572S-36                    | 759325  | 759159   |
| Throw Over Board (TOB) | 35P TOB Liferaft    | 00086015                     | -                         | Z31388-36*                   | On Request  | On Request   |
| Davit Launch (DL)      | 8P DL Liferaft      | -                            | -                         | Z31326-36                    | -   | -  |
| Davit Launch (DL)      | 12P DL Liferaft     | 00200064401                  | 00011579                  | Z1574S-36                    | 759322  | 759167   |
| Davit Launch (DL)      | 16P DL Liferaft     | 00200064101                  | 00041492                  | Z1576S-36                    | 759326  | 759175   |
| Davit Launch (DL)      | 20P DL Liferaft     | 00012645                     | 00012623                  | Z1578S-36                    | 759330  | 759183   |
| Davit Launch (DL)      | 25P DL Liferaft     | 00013710                     | 00013677                  | Z1580S-36                    | 759335  | 759191   |
| Davit Launch (DL)      | 35P DL Liferaft     | 00086004**                   | -                         | Z1584-36*                    | On Request  | On Request   |

\* 37 Person

\*\* Max stowage 25 mtrs

## Approvals

Approved in compliance with SOLAS/MED



**liferaft davits are available for purchase.**

Please see page 34 for more information.

# TRAINING LIFERAFTS

- Survitec’s training liferafts are equipped with the same safety features as Survitec’s world renowned range of commercial SOLAS liferafts; including maximum stability, immediate insulation, high visibility, and ease of stowage.
- Manufactured from corrosion and abrasion resistant polyurethane (PU) coated fabric.
- Fitted with a reinforced boarding ramp which provides extra durability to withstand the repetitive use required for crew training.
- Training liferafts are supplied non-operationally packed.
- Various container options available.
- SOLAS A and B equipment packs with non-functional pyrotechnics are available upon request. Replacement parts are also available for order.



## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| LRSU12TR       | 12 Person Training Liferaft                            |
| LRSU12DLTR     | 12 Person Davit Launch Training Liferaft               |
| LRSU16DLTR     | 16 Person Davit Launch Training Liferaft               |
| LRSU25DLTR     | 25 Person Davit Launch Training Liferaft               |
| LRSU35DLTR     | 35 Person Davit Launch Training Liferaft               |
| LRSU35DLSRTR   | 35 Person Davit Launch Self Righting Training Liferaft |

### Approvals

Approved in compliance with SOLAS/MED





# LIFERAFT RENTAL

## Simple, hassle free process

At Survitec, we understand the importance of effective, operational practices when your vessel is in port. Our rental and exchange concept launched in 2008 changed the liferaft market forever. Today more than 8,200 vessels have Survitec rented rafts on-board. Renting rafts, rather than owning, is now the preferred solution on-board many vessels!

## Extended service liferaft (ESR)

When a 12 monthly service option simply will not suit your operational requirements, Survitec offers the ESR liferaft solution, extending your liferaft service intervals from 12 to 30 months. Then it is no longer required to facilitate a full service and exchange your liferaft annually. The ESR is hermetically sealed with humidity and CO<sub>2</sub> sensors, which allows the vessel crew members to carry out their own annual inspection to ensure total working efficiency.

## Worldwide customer service

The Survitec dedicated global support function for all requests, logistics and invoice details means less coordination, administration and most importantly less risk of error.

With over 3,000 marine professionals covering 105 countries and more than 2,000 ports, Survitec is unrivalled with our worldwide customer support network.

## Convenient and cost effective

With a liferaft rental agreement you will experience several benefits for liferaft management. A key element of the Survitec concept is based on a single point of contact taking care of the due-date monitoring and arrangements for exchange of your liferafts.

- Predictable costs
- Reduced risk – avoiding replacement costs
- No investment required certificates
- No initial investments of rafts

## Always compliant, always on board

All our rental rafts are type and class approved, certificated and ready to use. Our teams around the world work hard to ensure your rafts are ready when and where they need to be. We will be waiting at your berth with your replacement rental rafts when you need, ready to go. We offer a variety of class approved, certificated and ready to use Survitec rafts:

- Option of Annual Liferafts (12 months) or Extended Service Liferafts (30 months) exchange
- Throw over and davit launch options
- 30, 60 or 90-day due-date notifications when your raft needs exchanging
- 6 – 35-man size options



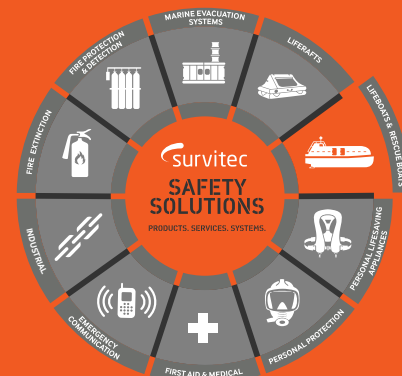
## KEY BENEFITS OF EXCHANGE RENTAL



- Liferafts are replaced with a new approved set
- Less transportation required
- Comprehensive network, ensuring availability in all key ports world wide
- Offers a full guarantee for the duration of the rental period
- Supports short port stays
- Highly skilled technicians, ensuring rafts are always in compliance with regulation
- Reduces the amount of handling required

# LIFEBOATS AND RE-HOOKING

Survitec supplies, inspects and maintains lifeboats, davits, lifeboat release and retrieval systems and LRRS hook release mechanisms to cruise customers around the world. Our experience and expertise are the foundations for our industry-leading services and products. Since 1991 we have grown our capabilities and our global network to support your safety objectives and IMO regulations. Our advanced design, manufacture, inspection and maintenance systems are in full compliance with the latest SOLAS regulations.



Keeping you compliant  
and safe to sail

# 12.3TN SAFELAUNCH ROC-LOC

- Safelaunch Rocloc is an offload / onload lifeboat release and retrieval system designed and manufactured by Survitec UK specifically for the cruise industry
- The Roc-Loc is IMO, SOLAS and LSA compliant
- Incorporated externally visible colour coded safety position indicator to assist in determining the status of the hook reset and locking, adding to its safety
- Designed and manufactured to withstand all climates and conditions
- Approved by ABS and USCG
- Survitec acquired Madrock Marine in 2010 and are the only approved supplier for Original Equipment Manufacturer spare parts
- For all spare parts, contact [cruise@survitecgroup.com](mailto:cruise@survitecgroup.com)



## Ordering Information

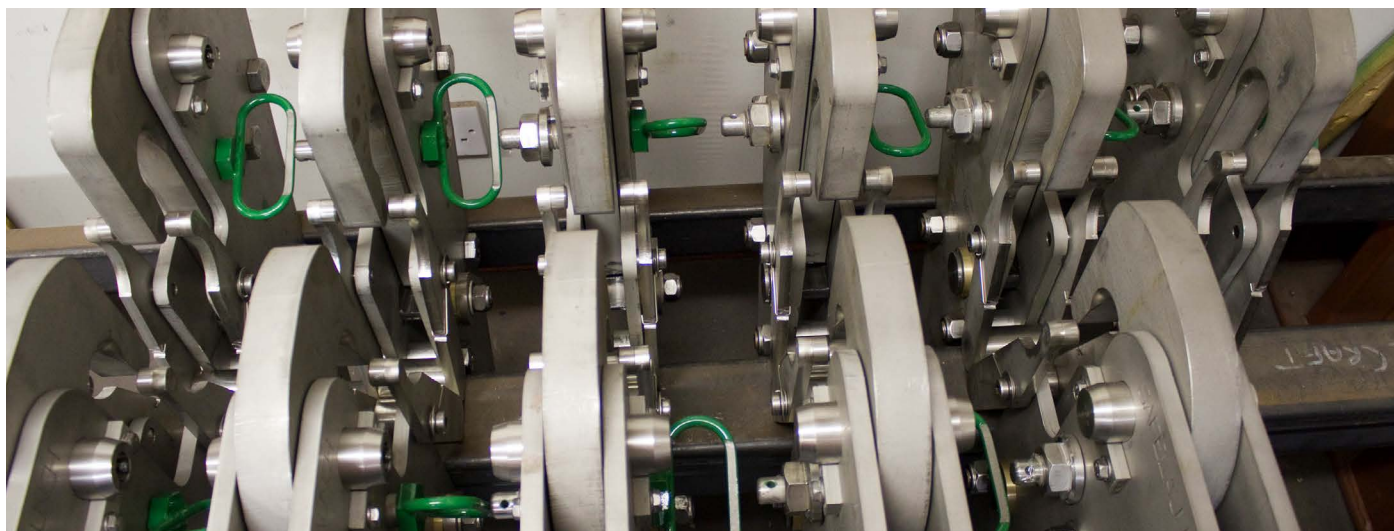
| Product Code  | Product Name                              |
|---------------|---|
| RG-SRLR-00000 | Safelaunch Rocloc 12.3T Complete Assembly |

## Spares

| Product Code  | Product Name                      |
|---------------|-----------------------------------|
| RG-SRLR-00001 | Safelaunch Rocloc R-Pin with Wire |
| RG-SRLR-00002 | Operating Handle Perspex Window   |
| RG-SRLR-00003 | Hook Gate with springs            |
| RG-SLRL-00004 | Green Maintenance Pin             |
| RG-SLRL-00005 | Hook with bushing                 |
| RG-SLRL-00006 | Cam Assembly                      |

### Approvals

Annex A.1, Item N°. A.1/1.26a & Annex B, Module B in the Directive. SOLAS 74 as amended, Reg III/4, III/16, III/34 & X3, LSA Code 4.4.7.6 & the amendments noted in MSC.320(89)



# LIFERAFT AND LIFEBOAT DAVITS

## PIONEERING DAVIT DESIGN SIMPLE INSTALLATION PHILOSOPHY.



survitec



SWL 10kN

## - THE NAME YOU CAN TRUST.

The Survitec range of davits are designed and manufactured by a European based manufacturing partner, whom hold over 20 years' experience supplying davits to the maritime market. Combined with Survitec' 160-year history provides customers decades of design and product knowledge in the industry.

Design has been the key to the success of these davits, not only is the Survitec range designed in accordance with the rules and regulations as published by the International Maritime Organisation (IMO), SOLAS & MED, they also included a standardised and smart design construction coupled with an efficient production and testing platform.

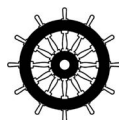
This combined with our simple installation setup where by the davit is supplied as a fully tested and assembled unit enables Survitec to offer faster turnaround times from order to delivery compared with the industry standard.

In addition, these new products hold several key features making them the top choice for customers operations and overall safety and longevity of the davit, including:

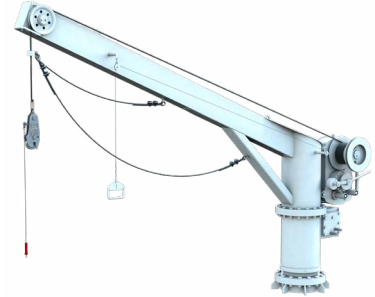
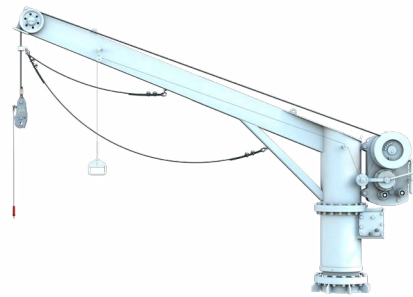
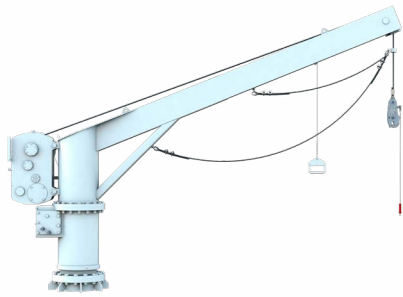
### FLAG AND CLASSIFICATION SOCIETY APPROVED

Survitec are the acknowledged leaders of both Flag State and Classification society approval standards, our comprehensive list of Class and Flag approvals qualifies us to inspect and service multiple brands of product and can therefore meet the requirements of the industry in their statutory responsibilities for service & inspection needs whatever your fleet. Furthermore, this is backed up by our Scottish Qualification Authority 'SQA' approved training school and ISO 9001:2015 accredited QA Management System.

Our extensive list of approvals includes:



# LIFERAFT DAVITS - MANUAL



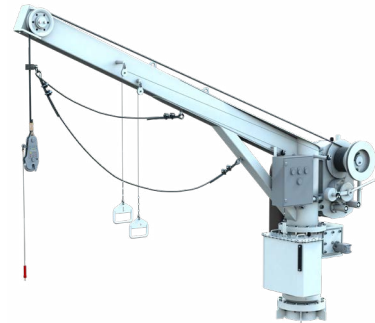
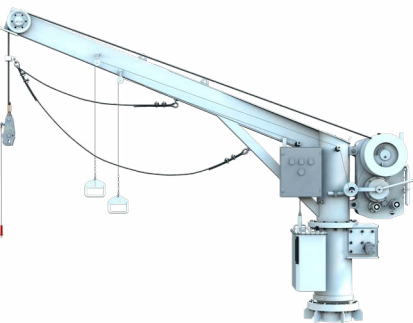
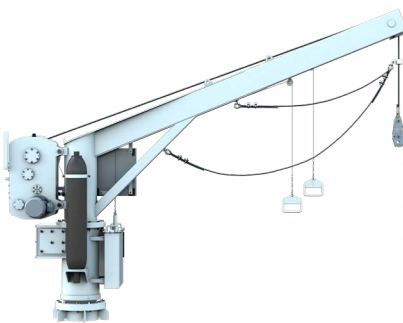
## TECHNICAL DATA

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Certification:                  | <b>MED</b>                           |
| Rules and regulations:          | <b>Latest IMO/SOLAS and LSA Code</b> |
| Certification authority (ICAS): | <b>Bureau Veritas</b>                |

## Ordering Information

| Product Number   | Product Name          |
|------------------|-----------------------|
| Contact for info | Liferaft Davit Manual |

# COMBI DAVITS - HYDRAULIC



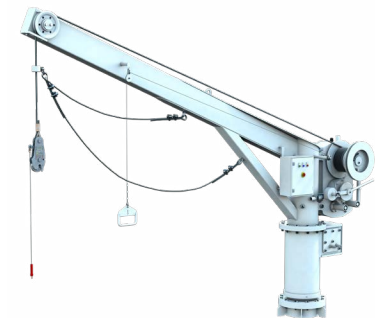
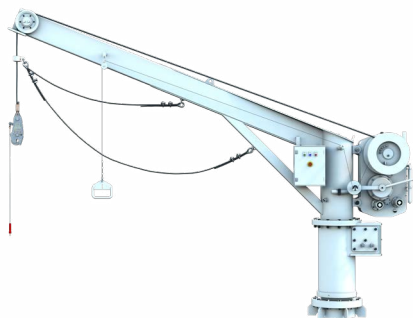
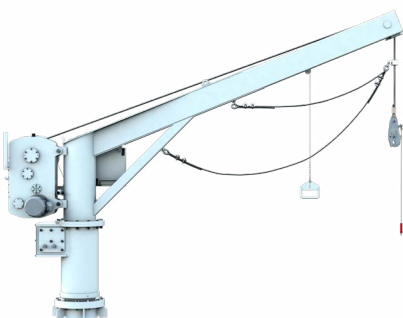
## TECHNICAL DATA

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Certification:                  | <b>MED</b>                           |
| Rules and regulations:          | <b>Latest IMO/SOLAS and LSA Code</b> |
| Certification authority (ICAS): | <b>Bureau Veritas</b>                |

## Ordering Information

| Product Number   | Product Name            |
|------------------|-------------------------|
| Contact for info | Combi Davit - Hydraulic |

# COMBI DAVITS - MANUAL



## TECHNICAL DATA

|                                 |                         |
|---------------------------------|-------------------------|
| Certification:                  | <b>BV Type Approval</b> |
| Certification authority (ICAS): | <b>Bureau Veritas</b>   |

## Ordering Information

| Product Number   | Product Name         |
|------------------|----------------------|
| Contact for info | Combi Davit - Manual |

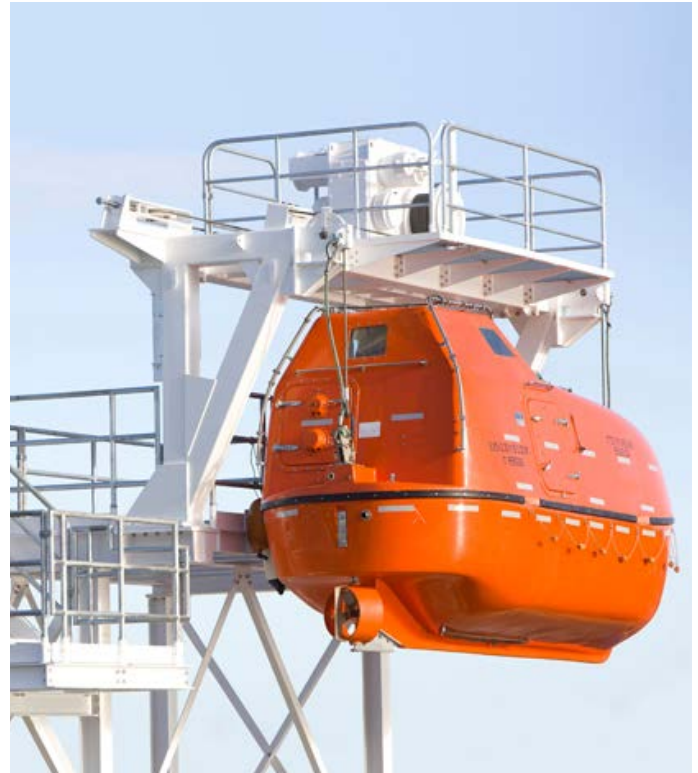
\*Operators are advised to obtain Flag State approval before purchasing a manual handling rescue boat davit

# LIFEBOAT DAVITS

- Range of ship and rig davit launching appliances for lifeboats
- Designed to withstand long periods of operation under adverse and extreme conditions in highly corrosive marine and offshore environments
- Meets IMO/SOLAS, LSA regulations as well as the European Council Directive 96/98 EC on Marine Equipment (M.E.D.)
- Standard and bespoke options available to meet individual vessel needs

## Options available

- Conventional gravity ship davit systems
- Freefall davits
- Fixed arm rig davits
- Fast rescue craft davits
- Slewing davits for combined liferaft / rescue boat
- Fixed Cantilever Launching Appliance
- Compact 'low head-room' hydraulic davit systems for FPSOs and ships and 'skid-mounted solutions'



## Ship's Gravity Davit

### TECHNICAL DATA

| Model   | Max. Working Load (kN) | Suitable Boat     |
|---------|------------------------|-------------------|
| SC60DL  | 60                     | SC50-60F/C        |
| SC85DL  | 90                     | SC75F/C           |
| SC138DL | 138                    | SC85F/C - SC93F/C |
| SC170DL | 180                    | SC95F/C           |
| SC200DL | 205                    | SC150F/C          |

## Ship's Gravity Davit Winch

### TECHNICAL DATA

| Model   |                | Max. Working Load (kN) | Hositing Load (kN) | Lowering Load (kN) |
|---------|----------------|------------------------|--------------------|--------------------|
| SC50DW  | D50S Life      | 50                     | 27                 | 30                 |
|         | D50Z Rescue    | 50                     | 27                 | 30                 |
| SC70DW  | D70S Life      | 70                     | 39                 | 45                 |
|         | D70Z Rescue    | 70                     | 39                 | 45                 |
| SCDW100 | SCDW100 Life   | 100                    | 70                 | 60                 |
|         | SCDW100 Rescue | 100                    | 55/70              | 60                 |
| SCDW130 | SCDW130 Life   | 130                    | 100                | 130                |
|         | SCDW130 Rescue | 130                    | 75/130             | 130                |
| SCDW160 | SCDW160 Life   | 160                    | 160                | 160                |

*Our lifeboat davits are designed and manufactured by an alternative provider to our liferaft and rescue boat davits.*

## Single Arm Rescue Boat/Liferaft Davit

### TECHNICAL DATA

| Model                                   | Max. Working Load (kN) | Suitable Boat |
|---|------------------------|---------------|
| SC21DR Manual Liferaft Davit            | 21                     | Liferaft      |
| SC23DR Rescue Boat/Raft Davit and Crane | 23                     | SC40R - SC45R |
| SC30DR Rescue Boat/Raft Davit           | 30                     | SC60R - SC70R |

## Single Arm Rescue Boat/Liferaft Davit Winch

### TECHNICAL DATA

| Model  | Max. Working Load (kN) | Hositing Load (kN) | Lowering Load (kN) |
|--------|------------------------|--------------------|--------------------|
| SC23DW | 23                     | 18                 | 23                 |
| SC30DW | 30                     | 30                 | 30                 |

## Freefall Lifeboat Davit

### TECHNICAL DATA

| Model   | Max. Working Load (kN) | Suitable Boat           |
|---------|------------------------|-------------------------|
| SC55DF  | 50                     | SC49FF/FC - SC59FF/FC   |
| SC70DF  | 70                     | SC59FFA/FCA - SC67FF/FC |
| SC85DF  | 85                     | SC75FF/FC               |
| SC100DF | 110                    | SC90FF/FC - SC105FF/FC  |
| SC230DF | 230                    | SC120FF/FC - SC150FF/FC |

## Ship's Roller Track Gravity Davit

### TECHNICAL DATA

| Model    | Max. Working Load (kN) | Suitable Boat     |
|----------|------------------------|-------------------|
| SC65DTL  | 68                     | SC50 - 60F/C      |
| SC90DTL  | 90                     | SC75F/C           |
| SC125DTL | 125                    | SC85F/C - SC93F/C |
| SC160DTL | 160                    | SC95F/C           |

## Ship's Hydraulic Gravity Davit

### TECHNICAL DATA

| Model    | Max. Working Load (kN) | Suitable Boat     |
|----------|------------------------|-------------------|
| SC130DYL | 130                    | SC85F/C - SC93F/C |
| SC150DYL | 160                    | SC95F/C           |
| SC200DYL | 205                    | SC150F/C          |

# LIFEBOAT RE-HOOKING

## LIFEBOAT RE-HOOKING IMO MSC.1 / CIRC.1392

### DEADLINE 1ST JULY 2019

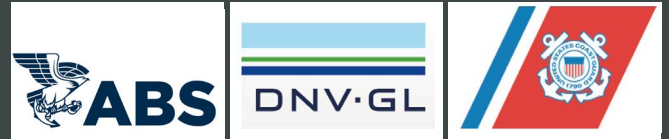
#### Safelaunch (RocLoc) - the award winning lifeboat release and retrieval system

- The award-winning, IMO-compliant Safelaunch (RocLoc) release and retrieval system - designed, developed and manufactured by Survitec - features visual indicators, integrated fall prevention device (FPD), and more.
- Safelaunch (RocLoc) has been specifically designed so it can be easily retrofitted to any lifeboat or rescue boat.
- Featuring only the highest quality materials and manufacturing standards, Safelaunch (RocLoc) is reliable and robust – and requires minimum maintenance.
- Compliant with all latest SOLAS / LSA regulations for on load release systems and designed for use with any manufacturer's lifeboat design.
- Approved for use by DNV-GL, ABS, USGC BV & EC Type Examination and Transport Canada.
- Fully manufactured from Duplex and 316L Stainless steel including all steelwork and fasteners.

#### Cost effective replacement hook packages

- Our global installation teams can re-hook your lifeboats during dry dock or at a key port
- Turn key project management
- All approvals and documentation is handled by the Survitec project team
- IMO and EU approved and UK manufactured hooks available from stock
- Survitec can assess your fleet lifeboat LRRS compliance and offer a cost effective replacement hook package

#### Manufactured and stocked in the UK by Survitec and full approved by the following:



## THE CLOCK IS TICKING!





# LIFEBOAT INSPECTION

## ARE YOU COMPLIANT WITH SOLAS CHAPTER III?

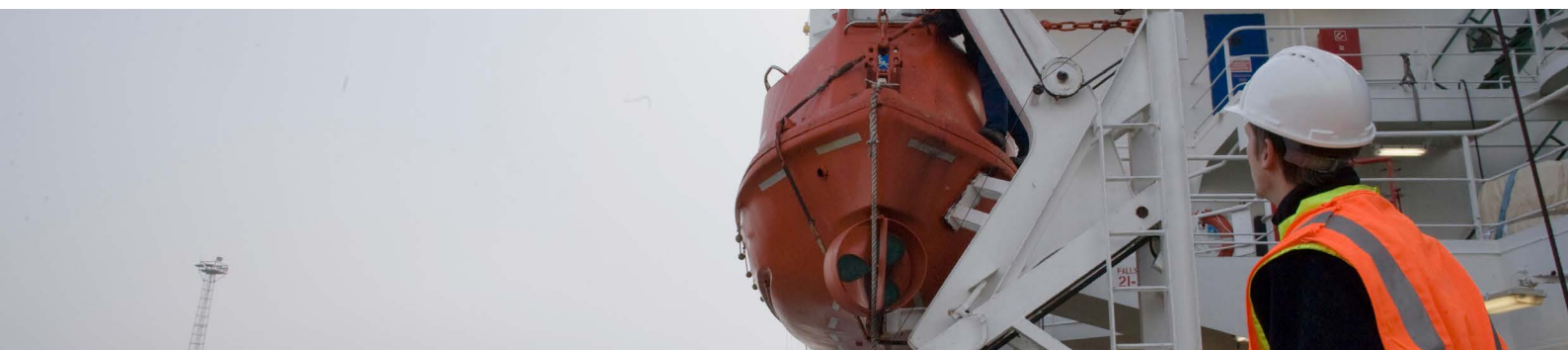
SOLAS Chapter III stipulates the need for servicing, annual inspections and a thorough 5 year inspection and load testing of lifesaving appliances (LSA), launching arrangements and lifeboat release & retrieval systems (LRRS). Survitec responded to this approval requirement and offers an extensive inspection, servicing and maintenance programme available globally.

No matter what your requirements, merchant, cruise, ferry or offshore, Survitec Lifeboat inspection, repair and refurbishment services can help you keep fully compliant with existing regulatory requirements utilising our Global Safety and product network.



## WHY SURVITEC?

- Keeping you compliant and safe to sail - a reputable and certified safety supplier with over 25 years' lifeboat experience
- Flexible vessel and port arrangement with a growing team of over 100 service engineers available globally - if an engineer is not available at your local port we can send one to you
- Competitively priced
- Multibrand lifeboat service provider allowing us to carry out the work required for all your lifeboat types and brands
- Improve your operational efficiency – let Survitec service your complete safety portfolio including liferafts, fire systems and personal lifesaving equipment. Our cross-trained service engineers help to advance your operational efficiency
- Minimise the burden of administration – let Survitec handle your 'due date monitoring' process
- One point of contact for all of your requests, logistics and invoice details



## KEY BENEFITS OF WORKING WITH SURVITEC

Survitec is now the world's largest maritime safety business, covering a vast range of safety products, services and systems. Having made significant company acquisitions since 2015, Survitec are now one of the world leading safety equipment manufacture for lifeboats covering initial supply, service, inspection, maintenance, testing and re-hooking requirements, all in accordance with the latest approval standards.

# LIFEBOAT SERVICES OFFERED



## LIFEBOAT INSPECTIONS

Using our well trained and experienced lifeboat engineers we are able to meet both your annual and 5-year inspection requirements. This includes overload testing, LRRS and launching appliance maintenance and overhaul, and a full range of new lifeboat and davit supply and commissioning. These activities are completed in accordance with SOLAS III and IMO requirements, under our Classification Societies and Flag States' approvals, assuring our customers we meet and surpass the statutory requirements.



## RE-HOOKING

In accordance with the latest re-hooking regulation update, MSC.1 / Circ. 1392, referencing lifeboat release hooks we are able to replace your lifeboat LRRS to ensure you are compliant with the new SOLAS approval standard (MSC.320 & 321(89)). Our Safelaunch and RocLoc hook replacement options are known for being robust, easy to maintain and unambiguous operation. As a class approved re-hooking service provider we can fit our hooks onto any lifeboat.



## SERVICE & MAINTENANCE

Survitec offers class leading capabilities in the preventative maintenance and overhaul of your lifeboat. Our service covers every aspect from the lifeboat itself, spare parts, refurbishments, LRRS and launching appliances. Our well trained and experienced service engineers are able to deliver these services aboard your vessel or within our conveniently positioned and equipped workshops.



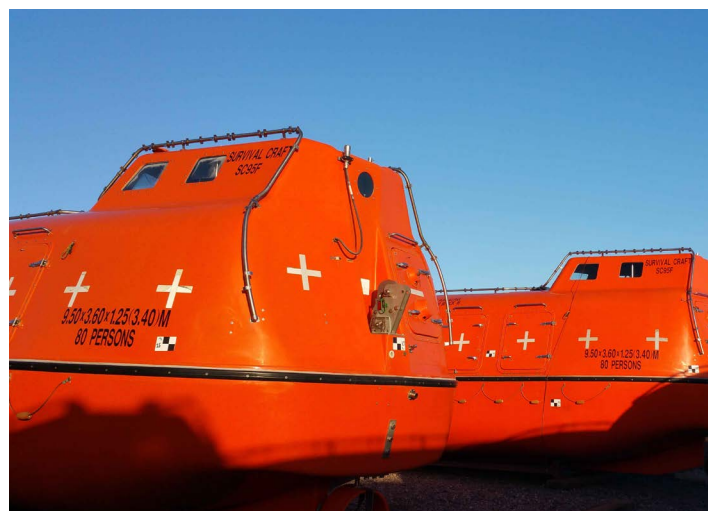
## REFURBISHMENTS

We have a comprehensive refurbishment, repair and upgrade capability for lifeboats, davits and winches using our in house engineering facilities and experienced engineers. We carry out all design, drawing and Class submissions to offer you a complete package from inception to completion.



## SPARE PARTS

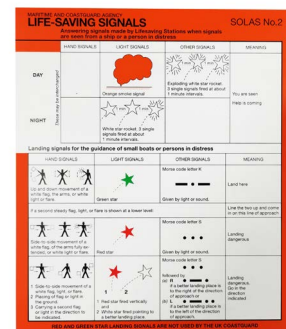
We can provide both original equipment manufacturer (OEM) and standard spare parts to suit your requirements as necessary.



# LIFEBOAT EQUIPMENT

## Ordering Information

| Product Number | Product Name                             |
|----------------|--|
| LBOAR14        | Lifeboat Oar 14Ft                        |
| 546663         | Boat Hook, Aluminium Telescopic 2M       |
| 737160         | Lifeboat Bailer                          |
| LRMANE/S       | Lifeboat Survival Manual                 |
| LBOXE          | Lifeboat Axe                             |
| LBCUPDR        | Graduated Drinking Vessel                |
| LBRAT.5        | Food Ration 0.5 Kg Lifeboat/Raft         |
| LBWAT.5S       | Drinking Water 0.5 L Lifeboat/Raft       |
| LBTORCOM       | Torch Waterproof Signal with Batteries   |
| 764201         | Signal Mirror / Heliograph               |
| SETABSOL2      | Lifesaving Signals Table - English       |
| 10678          | Whistle Orange without Lanyard           |
| LBFK           | Lifeboat First Aid Kit - Cat C Soft Pack |
| LBTABS/S       | Anti Seasickness Tablets (60 Tablets)    |
| LBBAGSS        | Seasickness Bag                          |
| LBKNI          | Lifeboat Jack Knife                      |
| 764250         | Rescue Quoit with Line                   |
| LBF/K          | Lifeboat Fishing Kit                     |
| 764210         | Thermal Protective Aid                   |
| 764211         | Tin Openers                              |
| LBDIP          | Lifeboat Dipper                          |
| LBPUMHDMKS     | Manual Pump                              |
| LBTK           | Lifeboat Tool Kit                        |
| IBSEARCH50W    | Handheld Searchlight                     |
| LBCOM          | Lifeboat Compass                         |
| LBRR           | Radar Reflector                          |
| 04503009       | Floating Knife                           |



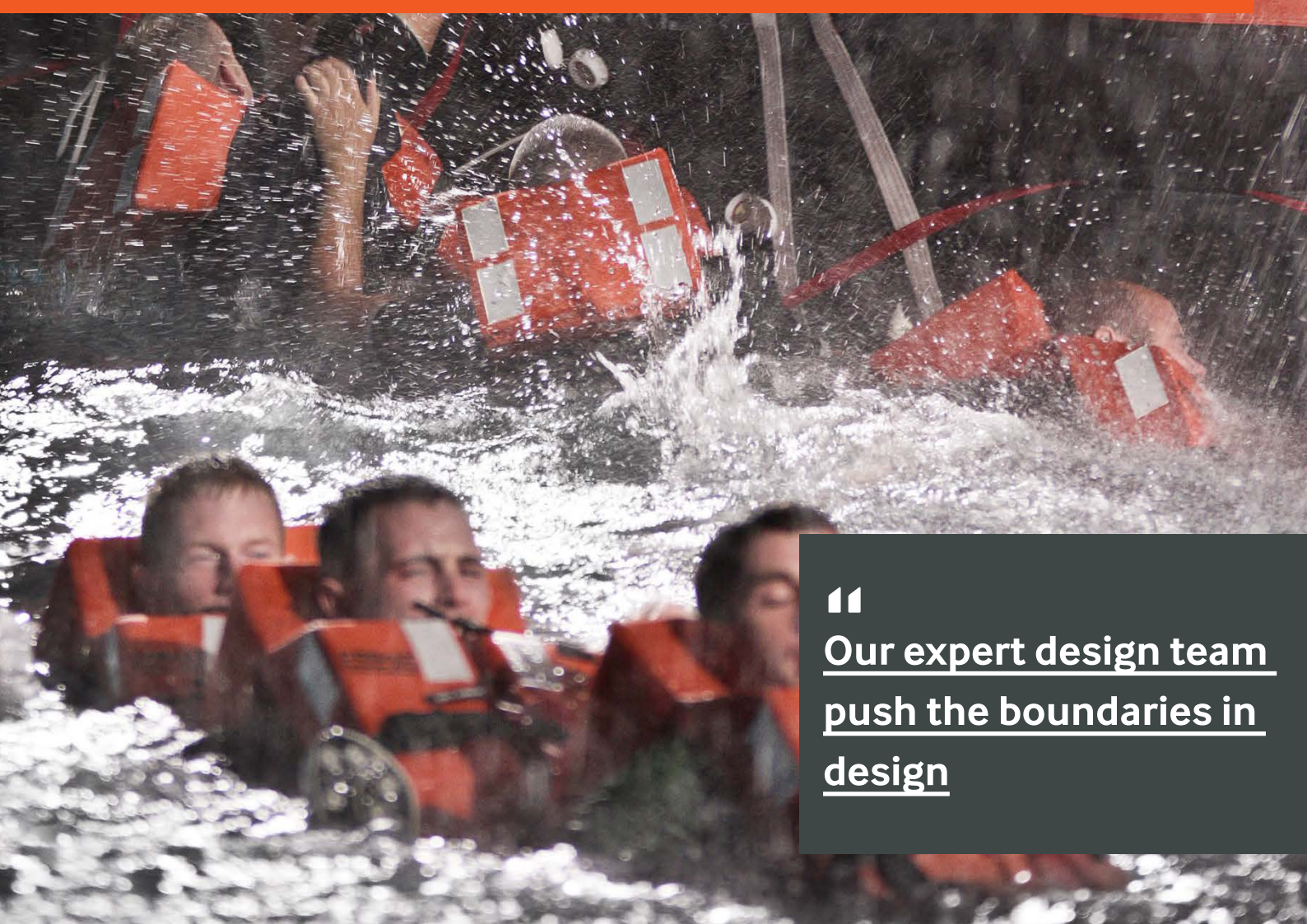


# PERSONAL LIFE SAVING APPLIANCES (LSA)



For Survitec saving lives is undoubtedly of paramount importance to us. Designed specifically with commercial use in mind, we have a range of both MED/SOLAS and ISO approved lifejackets to suit varying needs, including emergency passenger lifejackets.

Bladder Design Technology is of the utmost importance to us: Our expert design team constantly push the boundaries in design, keeping you up to date with the most advanced technology in lifesaving equipment.



“  
Our expert design team  
push the boundaries in  
design”

# SEACREWSADER 290N 3D

- Easy to replace cover system
- Waterproof service labels
- Can be used with a PLB & AIS
- 3D Cover
- High strength plastic quick release buckle
- YKK QBZ Tri-burst zip
- Foam padded cover for added protection
- Spare covers can be purchased separately including fire retardant and wipe clean options



## Ordering Information

| Product Number | Product Name                 |
|----------------|------------------------------|
| 1146-AUTO      | Seacrewsader 290N 3D         |
| 1146-AUTOH     | Seacrewsader 290N 3D Harness |

## Spares

| Product Number | Product Name   |
|----------------|--|
| 11037          | 60 g CO <sub>2</sub> Cylinder for 290N Lifejackets     |
| 10017          | Mk5i Black Automatic Capsule                           |
| 12050          | 60 g CO <sub>2</sub> Cylinder for Manual and Automatic |
| 1146-COVER     | Replacement Heavy Duty Cover                           |
| 1146-FRCOVER   | Replacement Fire Retardant Cover                       |
| 1146-WCCOVER   | Replacement Wipe Clean Cover                           |

## Accessories

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| SUPFITS20      | McMurdo S20 Supply and Fit          |
| 10226          | Crewsaver Surface Light Unpackaged* |

### Approvals

SOLAS 2010 regulations according to MSC 81(70) as amended by MSC 200(80) and MSC 207(81).



## TECHNICAL DATA

|           |  |
|-----------|--|
| Newtons   | 290N   |
| Type      | Lifejacket   |
| Flotation | Inflatable   |
| Chambers  | Twin   |
| Harness   | Fall Arrest / Deck Optional                        |
| Cover     | Heavy Duty / Fire Retardant or Wipe Clean Optional |

# SEACREWSADER 2010 275N

- Twin chamber 275N MSC 200 (80)/ SOLAS approved lifejacket
- High buoyancy level provides added protection when heavy work gear and clothing is worn
- Suitable for use with most immersion and abandonment suits, subject to compatibility testing
- One size fits all adult size
- Uses 2 x 60 g cylinders on symmetrical inflation chambers



## Ordering I

| Product Number | Product Name  |
|----------------|---|
| 1143-AUTO      | Seacrewsader 275N Twin Chamber Automatic with Hood*       |
| 1143-PLUS      | Seacrewsader 275N Automatic Fall Arrest Harness with Hood |
| 1143-AUTOH     | Seacrewsader 275N Automatic Hood and Harness              |

## Spares

| Product Number | Product Name   |
|----------------|--|
| 11037          | 60 g CO <sub>2</sub> Cylinder for 290N Lifejackets     |
| 10017          | Mk5i Black Automatic Capsule                           |
| 12050          | CO <sub>2</sub> Cylinder 60 g for Manual and Automatic |

## Accessories

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| SUPFITS20      | S20 Supply and Fit                  |
| 10226          | Crewsaver Surface Light Unpackaged* |

### Approvals

SOLAS 2010 regulations according to MSC 81(70) as amended by MSC 200(80) and MSC 207(81).



## TECHNICAL DATA

|           |  |
|-----------|--|
| Newtons   | 275N   |
| Type      | Lifejacket   |
| Flotation | Inflatable   |
| Chambers  | Twin   |
| Harness   | Fall Arrest / Deck Optional                        |
| Cover     | Heavy Duty / Fire Retardant or Wipe Clean Optional |

# CREWFIT 275N XD WIPE CLEAN

- The fusion 3D ergonomic shape for comfort and freedom of movement
- Wipe clean cover with fabric shoulder panels for easy cleaning and comfort
- Twin waist adjusters
- YKK tri quick burst zip
- Supplied with dual crotch straps



## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 9255WOA        | Crewfit 275N XD Wipe Clean Orange Automatic Harness |

## Accessories

| Product Number  | Product Name                           |
|-----------------|--|
| SUPFITCSL       | CSL Light Supply and Fit               |
| SUPFITHOODXD275 | Spray Hood 275N XD Supply and Fit      |
| SUPFITS20       | McMurdo S20 Supply and Fit             |
| SUPFIT-LASH     | Supply & Fit Lash Tab on XD Lifejacket |

## Spares

| Product Number | Product Name   |
|----------------|--|
| 11037          | Automatic 60 g Rearming Kit                            |
| 11321          | Hammar 60 g Rearming Kit                               |
| 10470          | Manual 60 g Rearming Kit                               |
| 10017          | Mk5i Black Automatic Capsule                           |
| 11104          | Hammar MA1 Automatic Capsule                           |
| 12050          | CO <sub>2</sub> Cylinder 60 g for Manual and Automatic |
| 11034          | MA1 Back Plate with Glued 60 g Cylinder                |

## Approvals

The Crewfit 275N XD inflatable lifejacket is approved to ISO 12402-2.



## TECHNICAL DATA

|                  |            |
|------------------|------------|
| <b>Newtons</b>   | 275N       |
| <b>Type</b>      | Lifejacket |
| <b>Flotation</b> | Inflatable |
| <b>Chambers</b>  | Single     |
| <b>Harness</b>   | Optional   |
| <b>Cover</b>     | Wipe Clean |

# PREMIER COMPACT

- Efficient use of storage space at only 17.4L - 42% smaller alternative to the original premier 2010
- Easy pull-out pillow for intuitive donning
- A foam cut out for the buckle ensures easy stack-and-stow, no folding or manipulation required
- Sacrificial stitch at the end of the waist belt to allow it to run free if caught, helping to prevent snag hazards
- Improved comfort and fit around the neck with re-engineered neck aperture
- Buddy line and whistle stored in recessed pocket
- High visibility fabric, foam and webbing are a proven success in the field
- Waist belt designed to fit chest girth of 1750mm
- 2 x clear id windows for vessel identification



**Packed Jacket**

## TECHNICAL DATA

|                  |            |
|------------------|------------|
| <b>Newtons</b>   | 143N       |
| <b>Type</b>      | Lifejacket |
| <b>Flotation</b> | Foam       |
| <b>Approval</b>  | MED/SOLAS  |

### Approvals

MED Approved. IMO Resolution MSC.81(70), Part 1 as amended by Resolution MSC.200(80), MSC.207 (81), MSC.218 (82), MSC.323 (89) and MSC.378 (93)



## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 10670          | Premier Compact Adult Lifejacket No Light  |
| <b>12672</b>   | <b>Premier Compact Lifejacket with Universal Recess Light Integrated Sensor*</b> |
| 12679          | Premier Compact Lifejacket with Universal Surface Light Integrated Sensor        |
| 13672          | Premier Compact Lifejacket with Alkaline Recessed Light                          |
| 13679          | Premier Compact Lifejacket with Alkaline Surface Light                           |

## Accessories

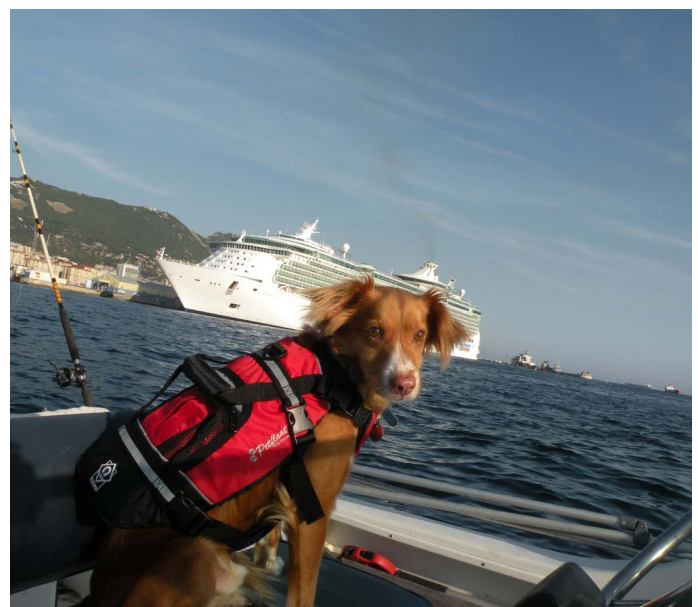
| Product Number | Product Name   |
|----------------|--|
| <b>10276</b>   | <b>Universal Light SOLAS with Integrated Sensor and Recessed Adaptors*</b>     |
| <b>10278</b>   | <b>Universal Light SOLAS with Integrated Sensor and Surface Mount Bracket*</b> |
| 10032          | Crotch Straps  |

# PETFLOAT

- Comfortable soft closed-cell foam
- Easily adjustable and quick to fit
- Integral handle to safely lift your pet aboard
- Pocket for lead and disposable bags
- Helps to keep assistance dogs safe

## Ordering Information

| Product Number | Product Name |
|----------------|--------------|
| 2370-XS        | Petfloat XS  |
| 2370-S         | Petfloat S   |
| 2370-M         | Petfloat M   |
| 2370-L         | Petfloat L   |
| 2370-XLA       | Petfloat XL  |





# PREMIER CHILD AND INFANT LIFEJACKETS

- MED/SOLAS approved lights
- Optional spray hood
- Available in child and infant sizes
- Highly visible colour with SOLAS approved retro reflective tape
- Buddy line and whistle stored in recessed pocket
- Waist belt designed to fit chest girth of 1750 mm
- Sacrificial stitch at the end of the waist belt to allow it to run free if caught, helping to prevent snag hazards
- Yellow crew option available



Approvals  
MED/SOLAS



## TECHNICAL DATA

| Newtons   |                     |
|-----------|---------------------|
| Child     | 15 kg to 43 kg 108N |
| Infant    | Up to 15 kg 68N     |
| Type      | Lifejacket          |
| Flotation | Foam                |
| Approval  | SOLAS               |

## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 10573          | Premier Lifejacket Child No Light   |
| 10574          | Premier Lifejacket Infant No Light  |
| 12616          | Premier Lifejacket Child and Universal Surface Light with Integrated Sensor           |
| 12617          | Premier Lifejacket Infant and Universal Surface Light with Integrated Sensor          |
| <b>12668</b>   | <b>Premier Lifejacket Child and Universal Recessed Light with Integrated Sensor*</b>  |
| <b>12669</b>   | <b>Premier Lifejacket Infant and Universal Recessed Light with Integrated Sensor*</b> |
| 13668          | Premier Lifejacket Child with Alkaline Recessed Light                                 |
| 13616          | Premier Lifejacket Child with Alkaline Surface Light                                  |
| 13669          | Premier Lifejacket Infant with Alkaline Recessed Light                                |
| 13617          | Premier Lifejacket Infant with Alkaline Surface Light                                 |

# CRIB LIFE PRESERVER

- Soft PVC foam for maximum comfort
- Front zip opening and adjustable belt
- Length can be adjusted to suit various sizes
- Webbing safety line with hand loop for securing to an adult

## Ordering Information

| Product Number | Product Name        |
|----------------|---------------------|
| 10146          | Crib with CSL light |



# PREMIER COMPACT CREW

- Efficient use of storage space at only 17.4L - 42% smaller alternative to the original premier 2010
- Easy pull-out pillow for intuitive donning
- A foam cut out for the buckle ensures easy stack-and-stow, no folding or manipulation required
- Sacrificial stitch at the end of the waist belt to allow it to run free if caught, helping to prevent snag hazards
- Improved comfort and fit around the neck with re-engineered neck aperture
- Buddy line and whistle stored in recessed pocket
- High visibility fabric, foam and webbing are a proven success in the field
- Waist belt designed to fit chest girth of 1750mm
- Clear id windows for vessel identification

Manufactured in a distinctive yellow colour scheme specifically for the ship's crew, allowing passengers to easily identify them in the event of an emergency.

## Packed Jacket



## Approvals

MED Approved. IMO Resolution MSC.81(70), Part 1 as amended by Resolution MSC.200(80), MSC.207 (81), MSC.218 (82), MSC.323 (89) and MSC.378 (93)



| TECHNICAL DATA |            |
|----------------|------------|
| Newtons        | 143N       |
| Type           | Lifejacket |
| Flotation      | Foam       |
| Approval       | MED/SOLAS  |

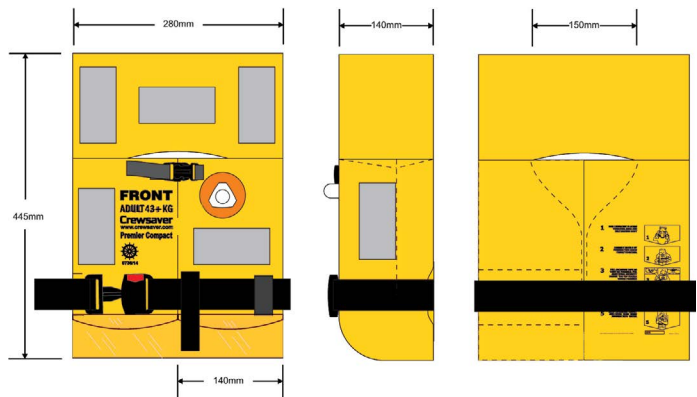


## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 10671          | Premier Compact Adult Crew No Light   |
| <b>12690</b>   | <b>Premier Compact Crew Lifejacket with Universal Recess Light Integrated Sensor*</b> |
| 12691          | Premier Compact Crew Lifejacket with Universal Surface Light Integrated Sensor        |
| 13690          | Premier Compact Crew Lifejacket with Alkaline Recess Light                            |
| 13691          | Premier Compact Crew Lifejacket with Alkaline Surface Light                           |

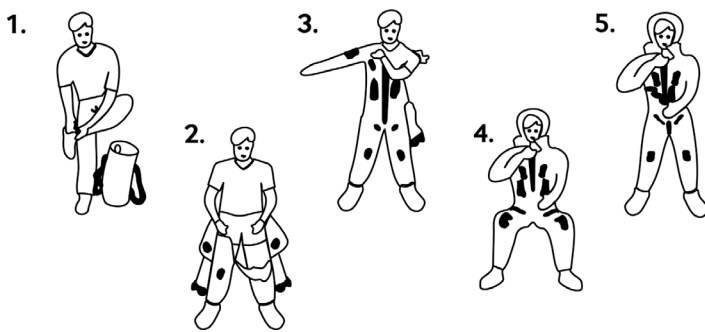
## Accessories

| Product Number | Product Name   |
|----------------|--|
| <b>10276</b>   | <b>Universal Light SOLAS with Integrated Sensor and Recessed Adaptors*</b>     |
| <b>10278</b>   | <b>Universal Light SOLAS with Integrated Sensor and Surface Mount Bracket*</b> |
| 10032          | Crotch Straps  |



# CREW ENDURANCE PLUS

- 40 mm nylon lifting strop harness with stainless steel D-ring
- 5 finger integral latex glove for increased dexterity
- Additional over glove for increased insulation, can be stowed in its own sleeve pocket
- Unpacked and donned in under 2 minutes
- Fire retardant neoprene construction
- Waterproof zip and MED/SOLAS approved reflective tape
- Withstands the impact of a jump into water from 4.5 m
- Prevents a typical wearer's core body temperature from dropping by more than 2 °C after six hours in calm water of 0-2 °C
- Must be worn with a lifejacket



## Approvals

Approved in compliance with SOLAS 74, as amended, Regulations III/4, 34, 356 and X/3. The LSA Code Regulations I/1.2 and II/2.3. IMO Resolution MSC 81(70), Part 1 as amended by resolution MSC.226(82). Conforms to MSC207(81) when worn with an approved lifejacket



## Ordering Information

| Product Number | Product Name                                     |
|----------------|--|
| 8800MK2-SHM    | Crew Endurance Plus Immersion Suit - Medium      |
| 8800MK2-SHU    | Crew Endurance Plus Immersion Suit - Universal   |
| 8800MK2-SHXL   | Crew Endurance Plus Immersion Suit - Extra Large |

## Accessories

| Product Number | Product Name  |
|----------------|---|
| 1143-AUTO      | Seacrewsader 275N Twin Chamber Automatic with Hood* |
| 10226          | Crewsaver Surface Light Unpackaged*                 |

\* A number of SOLAS lifejacket options are also available

## TECHNICAL DATA

| Size        |                |
|-------------|----------------|
| Medium      | 150 - 170 cm   |
| Universal   | 170 - 190 cm   |
| Extra Large | 190 - 210 cm   |
| Harness     | Lifting strop  |
| Type        | Immersion Suit |

# SMART SOLAS SUIT 1A

- Fully waterproof outer fabric + taped seams
- Wide anti-flushing straps on arms and ankles to give added thermal protection during water immersion
- Colour coded and sized storage bag with quick-rip touch and close opening panel to allow rapid donning in an emergency situation
- Elasticated leg panels for snug fit and to increase thermal protection during water immersion
- Straight collar
- Additional neoprene hood.
- Zip closure under flap with touch & close fastening
- Sleeve pocket with neoprene gloves stored inside.
- 1 sleeve pocket + marine grade whistle
- Adjustable belt in the waist
- To increase thermal protection from 1 to 6 hours combine with the thermal floatation liner 1MC6. The thermal floatation liners are colour coded for sizing



## Approvals

Approved to MED/SOLAS



## Ordering Information

| Product Number | Product Name                                |
|----------------|---|
| FLIMMUL/M      | Smart SOLAS Suit 1A MED/SOLAS - Medium      |
| FLIMMUL/L      | Smart SOLAS Suit 1A MED/SOLAS - Large       |
| FLIMMUL/XL     | Smart SOLAS Suit 1A MED/SOLAS - Extra Large |

# SMART SOLAS FLOATATION LINER

- This liner will transform the SMART SOLAS Suit 1A from a 1 hour suit to a 6 hour suit
- Double sided smooth nylon quilted to 5 mm foam liner for ease of donning
- Heavy duty front zip
- Butted and taped seams for reduction of bulk
- Flexible lightweight floatation liner gives both added buoyancy and thermal protection
- Easy access centre front zip
- Elastic thumb loops and foot stirrup straps to aid easy donning and security of fit under the Smart 1A Suit
- Colour coded for ease of matching sizes



## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| FLIMMULL/NM    | Smart Thermal Floatation Liner - Medium - Navy      |
| FLIMMULL/OL    | Smart Thermal Floatation Liner - Large - Orange     |
| FLIMMULL/NXL   | Smart Thermal Floatation Liner - Extra Large - Navy |

# ATACAMA DRYSUIT

- 3 layer breathable fabric with enhanced waterproof properties
- Lower back stretch mesh panel for increased comfort and flexibility
- YKK Aquaseal flexible zip construction
- Articulated arms and legs for increased freedom of movement
- Cordura reinforced double layered seat and knees
- Expandable leg pockets with D-ring attachment
- Adjustable wrist and ankle cuffs
- Glideskin neoprene wrist and neck seals
- Removable braces
- Internal pocket
- Reflective detail
- Free stratum fleece provided



LOWER BACK STRETCH MESH PANEL FOR INCREASED COMFORT AND FLEXIBILITY

## Ordering Information

| Product Number | Product Name                  |
|----------------|-------------------------------|
| 6556-S         | Atacama Pro Small             |
| 9556-M         | Atacama Pro Medium            |
| 6556-L         | Atacama Pro Large             |
| 6556-XL        | Atacama Pro Extra Large       |
| 6556-XXL       | Atacama Pro Extra Extra Large |

# STORAGE CABINETS

- Glass Reinforced Plastic (GRP) construction
- Stainless steel hinges and fittings
- Waterproof
- Clear labelling



| Product Number     | Product Name                   |
|--------------------|--------------------------------|
| FLL/JCABJB17.750LJ | Lifejacket Cabinet             |
| FLL/JCABJB17.1200  | Lifejacket Cabinet             |
| FLL/JBOXJB74       | Lifejacket/Survival Suit Chest |
| FLL/JBOXJB75       | Lifejacket/Survival Suit Chest |

# UNIVERSAL LIGHT

- Activates on contact with water or manually
- Flashing LED light
- Minimum 8 hours light duration

## Approvals

Approved in compliance with SOLAS 74, as amended, Regulations III/4, 34, 356 and X/3. The LSA Code



## TECHNICAL DATA

|   |                           |
|---|---------------------------|
| <b>Light Output Vertical/Horizontal</b> | Min 0.75 cd Max 6.0 cd    |
| <b>Light Output Surface Mount</b>       | 8.0 cd                    |
| <b>Light Duration</b>                   | Min 8 hr                  |
| <b>Light Type</b>                       | Flashing LED              |
| <b>Material</b>                         | PCTG/ABS/Silicone         |
| <b>Storage Temperature</b>              | -30 °C to +65 °C          |
| <b>Operating Temperature</b>            | -1 °C to +30 °C           |
| <b>Storage Life</b>                     | 5 Years                   |
| <b>Activation</b>                       | Water or Manual           |
| <b>Battery Type</b>                     | Lithium Manganese Dioxide |
| <b>Weight</b>                           | 49.4 g (Light Only)       |
| <b>Approvals</b>                        | MED/SOLAS & USCG          |

## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 10278          | Universal Light SOLAS and Surface Mount Bracket Integrated Sensor* |
| 10276          | Universal Light SOLAS Integrated Sensor with adapter*              |
| 11275          | Universal Light SOLAS Integrated Sensor                            |

## Spares

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 10269          | Universal Circular Recessed Housing |

# LIFEJACKET SURFACE LIGHT

- High powered white LED lifejacket light
- Flashing for optimum visibility at sea
- Minimum light intensity 1.3cd at 0° (req. 075cd)
- Optimum output levels exceeds 3cd



## TECHNICAL DATA

|                              |                                    |
|------------------------------|------------------------------------|
| <b>Light Duration</b>        | Min 16 hr                          |
| <b>Light Type</b>            | Flashing LED                       |
| <b>Material</b>              | PCTG/ABS                           |
| <b>Storage Temperature</b>   | -30 °C to +65 °C                   |
| <b>Operating Temperature</b> | -1 °C to +30 °C                    |
| <b>Storage Life</b>          | 5 Years                            |
| <b>Activation</b>            | Water or Manual                    |
| <b>Dimensions LxWxH</b>      | 45 x 31 x 39 mm                    |
| <b>Battery Type</b>          | Duracell Lithium Manganese Dioxide |
| <b>Approvals</b>             | MED/SOLAS & USCG                   |

## Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 10226          | Crewsaver Surface Light Unpackaged* |

## Approvals

Approved in compliance with IMO, SOLAS, MED and MCA



Lifejacket donning and light fitting instructions are available on our website

# CREWSAVER ALKALINE LIGHT (CAL)

- Alkaline powered for a greener alternative whilst reducing disposal and transportation costs
- Can be surface or recess mounted
- Low profile design
- Activates on contact with water or manually
- Flashing LED light
- SOLAS approved
- 5 year storage life



## TECHNICAL DATA

|                                      |   |
|--------------------------------------|---|
| <b>Light Output</b>                  | Minimum 8 Hours   |
| <b>Light Type</b>                    | Lumiled LED   |
| <b>Material</b>                      | PCTG/ABS/Silicone   |
| <b>Storage Temperature</b>           | -30 °C to 65 °C   |
| <b>Optimum Operating Temperature</b> | 0 °C to 45 °C   |
| <b>Activation</b>                    | Automatic water activation with switch for manual operation |
| <b>Battery Type</b>                  | AAA Alkaline  |
| <b>Storage Life</b>                  | 5 years   |
| <b>Maintenance</b>                   | Periodic check of operation                                 |

## Ordering Information

| Product Number | Product Name                   |
|----------------|--------------------------------|
| 10277          | Crewsaver Alkaline Light (CAL) |

## Lifejackets fitted with CAL

| Product Number | Product Name                                 |
|----------------|--|
| 13610          | Premier 2010 LJ Adult + CAL Surface mounted  |
| 13611          | Premier 2010 LJ Adult + CAL Recessed         |
| 13612          | Premier 2010 Crew + CAL Recessed             |
| 13616          | Premier 2010 LJ Child + CAL Surface mounted  |
| 13617          | Premier 2010 LJ Infant + CAL Surface mounted |
| 13618          | Premier 2010 LJ Crew + CAL Surface mounted   |
| 13668          | Premier 2010 LJ Child + CAL Recessed         |
| 13669          | Premier 2010 LJ Infant + CAL Recessed        |
| 13672          | Premier Compact + CAL Recessed               |
| 13679          | Premier Compact + CAL Surface mounted        |
| 13690          | Premier Compact Crew + CAL Recessed          |
| 13691          | Premier Compact Crew + CAL Surface mounted   |

## Accessories

| Product Number | Product Name                      |
|----------------|-----------------------------------|
| 11271          | Surface Mount Clip for CAL        |
| 11272          | Circular Recessed Housing for CAL |

Approvals  
MED/SOLAS



# PERRYBUOY

- Fitted with MED approved high intensity retro reflective tape
- Grabline made with a braid of high density polyethylene 10 mm diameter

## Benefits

- 4 kg Perrybuoy – This weight of lifebuoy must be used to operate the self activated smoke signal and self igniting light from it's bracket on the bridge wing
- 2.5 kg Perrybuoy – Can be used for all other positions on the vessel
- Both Perrybuoys can be stored in lifebuoy cabinets or stowed in the galvanised inverted Y brackets shown below



## Approvals

Approved in compliance with MED



## Ordering Information

| Product Number | Product Name              |
|----------------|---------------------------|
| 751017         | 30" inch 2.5 kg Perrybuoy |
| 751027         | 30" inch 4 kg Perrybuoy   |

## TECHNICAL DATA

|                             |   |
|-----------------------------|---|
| Outer Diameter              | 751 mm +/- 2%                                     |
| Inner Diameter              | 450 mm +/- 2%                                     |
| Elliptical Section          | Major axis 150 +/- 7 mm<br>Minor axis 99 +/- 7 mm |
| Maximum Installation Height | 60 m  |
| Approval                    | MED/SOLAS   |

# LIFEBUOY Y BRACKET

- Galvanised coating for long life
- Galvanised Steel Y Bracket for 30" lifebuoys can be mounted anywhere where quick access to a lifebuoy is required
- Can be supplied with fixing plate for lifebuoy lights or manoverboard smoke and light units (special order)



## Ordering Information

| Product Number | Product Name           |
|----------------|------------------------|
| 735985         | Y Bracket For Lifebuoy |



# FLOATING LIFE LINE 30 METER

- Heaving lines supplied in 8 mm orange floating line to meet the SOLAS regulations
- Bespoke lengths available to suit specific applications
- Special heaving lines can be manufactured in line dispensers for offshore applications



## Ordering Information

| Product Number | Product Name            |
|----------------|-------------------------|
| 606208         | Floating Life Line 30 m |

# L170 LIFEBOUY LIGHT

- MED/SOLAS approved
- Five year life, no maintenance required
- Compact size, small and light
- Suitable for use on platform or vessel
- Drop tested to 76 metres

## Approvals

Approved in compliance with SOLAS/MED



## Ordering Information

| Product Number | Product Name        |
|----------------|---------------------|
| FLL170C        | L170 Lifebuoy Light |

## TECHNICAL DATA

|              |                     |
|--------------|---------------------|
| Battery Type | Lithium Ion         |
| Drop Height  | 76 m                |
| Battery Life | Maximum 5 year life |

# DANIAMANT L160 LIFEBOUY LIGHT

- MED/SOLAS approved
- No maintenance or replacement batteries are required
- Compact and lightweight size
- Easy fitting
- 76 metre drop height, exceeding SOLAS requirement



## Ordering Information

| Product Number | Product Name                      |
|----------------|-----------------------------------|
| 777805         | Daniamant L160 Lifebuoy Light MED |

## TECHNICAL DATA

|                       |                         |
|-----------------------|-------------------------|
| Output                | Min 2Cd                 |
| Duration              | Min 2 hours             |
| Light Type            | Flashing LED            |
| Storage Temperature   | -30 °C to + 65 °C       |
| Operating Temperature | -1 °C to + 30 °C        |
| Drop Height           | 76 m                    |
| Storage Life          | 5 Years                 |
| Weight                | 255 g                   |
| Activation            | Automatic via Pull Cord |

## Approvals

Approved in compliance with MED



# SL-300 LIGHT

- Battery service life: 5 years
- Self-activated by tilt-switch
- >2 Candela light intensity
- Lifetime: > 2h
- Solas approved
- Sealed, small and compact
- Robust
- Flash: 50-70 flash/min



## TECHNICAL DATA

|                              |  |
|------------------------------|--|
| <b>Plastic Colour</b>        | Yellow   |
| <b>Light Output</b>          | 2 Candela minimum                                      |
| <b>Light Duration</b>        | 2 hrs minimum  |
| <b>Light Type</b>            | Robust   |
| <b>Flash</b>                 | 50-70 flash/min  |
| <b>Material</b>              | ABS  |
| <b>Storage Temperature</b>   | -30 °C to + 65 °C                                      |
| <b>Operating Temperature</b> | -30 °C to + 65 °C                                      |
| <b>Storage Life</b>          | 5 years  |
| <b>Weight - Nominal</b>      | 0.3935 kg  |
| <b>Battery Type</b>          | Lithium Manganese Dioxide                              |
| <b>Activation</b>            | Tilt switch  |
| <b>Approvals</b>             | In compliance with SOLAS CH III Life-Saving Appliances |

## Ordering Information

| PRODUCTS       |                       |
|----------------|-----------------------|
| Product Number | Product Name          |
| FLLSL300       | SL-300 Lifebuoy Light |

# LIFEBUOY SYSTEM MK2

## ELECTRONIC REMOTE RELEASE

- GRP holder with metal spring holder and manual backup
- Hammar ERRS remote activation package
- ERU (electric remote unit) with cord pre-installed on metal holder
- Release switch
- Connector box
- 20m cable from connector box to release switch, screened 2 x 0.75 mm<sup>2</sup>, diameter 8 mm
- Manual safety pin
- Pilot line for loading the lifebuoy
- Installation manual
- User Guide
- Marking instruction
- Not supplied in the kit: Lifebuoy, mounting bolts for the installation onboard



## Ordering Information

| PRODUCTS       |   |
|----------------|---|
| Product Number | Product Name                                  |
| 758989         | Lifebuoy System MK2 Electronic Remote Release |

# REFLECTIVE SAFETY TAPE

- Permanently marked with ship's wheel logo for immediate compliance identification
- Single layer construction for durability, abrasion resistance and flexibility
- No risk of water penetration
- FD1404 for use on inflatable devices, inflatable lifejackets, immersion suits
- FD1403 for use on devices and equipment with rigid substrates (ie steel, aluminium), Lifebuoys, Buoyant Apparatus



## TECHNICAL DATA

|             |                |
|-------------|----------------|
| Roll Length | 45.7 m         |
| Roll Width  | 50 mm          |
| Type        | Microprismatic |

### Approvals

Approved in compliance with SOLAS/MED



### Ordering Information

| Product Number | Product Name                                   |
|----------------|--|
| 731493         | FD1404 SA Retro Reflective Tape                |
| 731487         | FD1403 SA Retro Reflective Tape 50 mm x 47.5 m |

# ORANGE WHISTLE

- Spare or replacement to carry with you at all times
- Non-clog design



### Ordering Information

| Product Number | Product Name                   |
|----------------|--------------------------------|
| 10286          | Whistle Orange with Lanyard    |
| 10678          | Whistle Orange without Lanyard |

### Approvals

EN

# SAFETY TORCH ATEX

- UL Division 1 & 2 listed
- Non-conductive
- 30,000 candela
- Pre-focused spot beam
- Supplied with a keyring lanyard and belt clip keeping hands free
- Xenon bulb gives a direct beam of 30,000 candela making it ideal for using as a marshalling baton
- Waterproof up to 100ft and able to withstand up to a 30ft drop if entry into the water is required
- Our lifetime warranty extends the reasons you should consider the Responder



## Approvals

UL Divisions 1 & 2, Class I, Group C & D, Class II, Group G, Class III, Operating Temp T5, ASTM & MSHA

## TECHNICAL DATA

|                         |                      |
|-------------------------|----------------------|
| <b>Power Source</b>     | 2 x C Cell batteries |
| <b>Bulb Life</b>        | 15 Hours             |
| <b>Replacement Bulb</b> | XPR2C                |
| <b>Approx Max use</b>   | 5 Hours              |

## Ordering Information

| Product Number | Product Name       |
|----------------|--------------------|
| 658310         | Safety Torch ATEX* |

## Accessories

| Product Number | Product Name                   |
|----------------|--------------------------------|
| L15991         | Xenon Bulb XPR2C for Responder |

# WOLFLITE H-251ALED RECHARGEABLE HANDLAMP

- CE marked to ATEX directive explosive gas, vapour and mist
- Certified for zones 1 & 2, up to T4 temperature class
- LED light source gives increased light output and battery duration
- Discharge protection
- IP66 ingress protection
- Electronic current limited battery with power fail operation
- Robust anti-static thermoplastic lamp enclosure
- Suitable for cyclic and short-term standby applications



## APPROVALS



## TECHNICAL DATA

|                       |  |
|-----------------------|--|
| <b>Light Type</b>     | Halogen filled filament bulb           |
| <b>Light Volts</b>    | 3.75 V                                 |
| <b>Light Watts</b>    | 1 W                                    |
| <b>Light Output</b>   | 60 lm (peak)                           |
| <b>Bulb Life</b>      | 25,000 hrs                             |
| <b>Power Type</b>     | Rechargeable battery, sealed lead acid |
| <b>Power Volts</b>    | 4 V                                    |
| <b>Power Capacity</b> | 5 Ah                                   |
| <b>Power Life</b>     | Up to 500 recharge cycles              |

## Ordering Information

| Product Number | Product Name        |
|----------------|---------------------|
| 638726         | Wolfite Safety Lamp |

## Accessories

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 638965         | Wolfite Safety Lamp Battery         |
| 638973         | Wolfite Safety Lamp Bulb            |
| 588301         | Wolfite Safety Lamp Charger C-251HV |

# CREWSAVER PRD

- High density delrin plastic rungs and steel rods
- Marine grade 316 stainless-steel snap hooks
- For use on Fast Rescue Craft
- Available in a variety of sizes
- Lifting strops and heaving lines included



## Approvals

SOLAS, LSA Code Regulation I/1.2, IMO Resolution MSC.81 (70) Part 1 Section 1.2 & 1.4, SAE J 1960, ISO 4892-2

## Ordering Information

| Product Number | Product Name             |
|----------------|--------------------------|
| SEPRD314FRC    | Crewsaver PRD 3 x 14 FRC |
| SEPRD415FRC    | Crewsaver PRD 4 x 15 FRC |

# MOB RECOVERY CRADLE

- SOLAS approved
- Lightweight and compact
- Portable and versatile design
- No requirement for annual servicing
- Carbon fibre rods enhance the strength with
- Loading's up to 900 kg per rung during tests



## Ordering Information

| Product Number | Product Name                    |
|----------------|---------------------------------|
| 737014         | Mob Recovery Cradle 2 m x 1.3 m |
| 737016         | Mob Recovery Cradle 3 m x 1.3 m |
| 737018         | Mob Recovery Cradle 4 m x 1.3 m |
| 737020         | Mob Recovery Cradle 5 m x 1.3 m |

## Approvals/ Patents/ Certificates

SOLAS  
 UK Patent - GB2451127  
 EU Patent - 2178743  
 US Patent - 8905803  
 Certificate of Design Registration (IPO) -4028064  
 SOLAS Certificate Number - SAS S150121

## Accessories

| Product Number | Product Name                   |
|----------------|--------------------------------|
| 737022         | Mob Recovery Cradle Strops     |
| TBC            | Karabina for Attachment Strops |
| 50463039       | Extendable Pole and Hook       |

## TECHNICAL DATA

|                   |                  |
|-------------------|------------------|
| Width             | 1.3 m            |
| Length            | 2 m - 7 m        |
| Weight            | 1.6 kg per metre |
| Safe working load | 900 kg           |

# EXTENDABLE POLE/HOOK

- Extendable pole & hook to assist with recovery

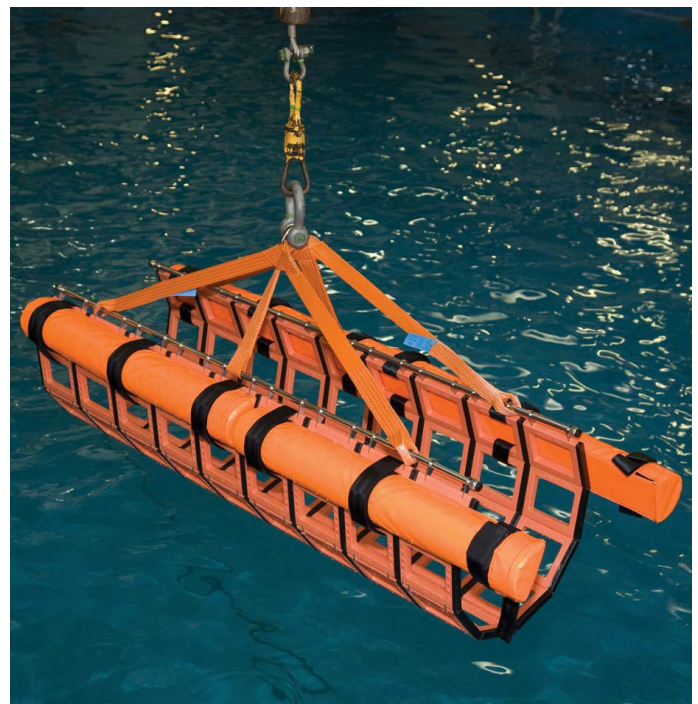


## Ordering Information

| Product Number | Product Name                             |
|----------------|--|
| 50463039       | Extendable Pole/Hook for Recovery Cradle |

# RESCUE STRETCHER KIT (MORS)

- Ergonomic, safe and effective stretcher
- Assists in the retrieval of casualties from the water
- High density plastic rungs and steel rods
- Marine Grade 316 stainless steel snap hooks.
- Includes lifting strops and heaving lines to aid a swift and practical retrieval.
- Available in two sizes, 9 x 8 and 11 x 10



## Approvals

SOLAS LSA Code Regulation I/1.2, IMO Resolution MSC.81 (70) Part 1 Section 1.2 & 1.4, SAE J 1960, ISO 4892-2



## Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| SEPRDSK98      | Crewsaver PRD Stretcher Kit 9 x 8   |
| SEPRDSK1110    | Crewsaver PRD Stretcher Kit 11 x 10 |

# FIBRELIGHT EMERGENCY LADDER

- Strong & durable
- Lightweight & compact
- Can be operated by a single person - the ladder can be rolled out and ready for use in less than a minute
- Can be loaded in both directions
- Standard width: 600 mm
- produced in lengths of 2 to 30 m
- Contains no metal parts - suitable for deployment on vessels and platforms with fire risks
- Double rung



## Ordering Information

| Product Number | Product Name                     |
|----------------|----------------------------------|
| LAFLEL10M      | Fibrelight Emergency Ladder 10 m |
| LAFLEL30M      | Fibrelight Emergency Ladder 30 m |

# EMERGENCY LADDER CHEST

- Uniquely Lloyd's Register Type Test Approved
- 25 years' proven track record
- IP56 rated for excellent weather protection



## Ordering Information

| Product Number | Product Name           |
|----------------|------------------------|
| LAPB10FELC     | Emergency Ladder Chest |

# PILOT LADDERS

- Designed for embarking or disembarking of pilots from the vessel
- MED approved
- Steps and spreaders made in one piece construction and free from knots and splinters
- Four lowest steps of a pilot ladder are made from rubber
- Type 'A' pilot ladder maximum length 9 m
- Type 'B' pilot ladder maximum length 36 m



## Ordering Information

| Product Number | Product Name |
|----------------|--------------|
| LADPIL         | Pilot Ladder |

Approvals  
Approved in compliance MED



# EMBARKATION LADDERS

- Designed for safe embarkation of waterborne survival craft along a vertical portion of the ship's hull
- MED approved
- Maximum length 36 m



Approvals  
Approved in compliance MED



## Ordering Information

| Product Number | Product Name        |
|----------------|---------------------|
| 50463039       | Embarkation Ladders |







# PERSONAL PROTECTION

**KEEPING CREW AND PASSENGERS SAFE IS THE NUMBER ONE PRIORITY WHILST AT SEA.**

Accidents cannot be prevented, but how we protect ourselves from short and long-term injury is a crucial element in today's working environment. Therefore, Survitec have set up and built relationships over a number of years, with some of the world's leading personal safety equipment suppliers to ensure you, the customer, can be supplied with our broad range of key products within this category in order to meet your safety equipment needs. Where required, our equipment includes spare parts to ensure that levels of safety are not compromised when faced with damage, misuse, loss or wear and tear.



# COMPRESSED AIR BREATHING

## SPIROMATIC 90U BREATHING APPARATUS

- Open back plate for good ventilation and low weight
- Easy to handle and adjustable cylinder strap
- Carrying handle integrated in backplate
- Well-proven pneumatics and robust design
- First breath activation of positive pressure or Ambient air hatch for standby use
- Excellent breathing performance
- Breathing valve is activated from inner mask
- Mask and breathing valve in a compact design
- Audible alarm placed on chest - starts at 55 +/- 5bar
- Available with extra air connection
- Spiromatic 90USA is available on request, with NIOSH approval



### TECHNICAL DATA

|                               |                              |
|-------------------------------|------------------------------|
| <b>Mask Body</b>              | Natural Rubber               |
| <b>Inner Mask</b>             | Natural Rubber               |
| <b>Visor</b>                  | Heat Resistant Polycarbonate |
| <b>Breathing Valve</b>        | Heat Resistant Polyamide     |
| <b>Membrane</b>               | Natural Rubber               |
| <b>Mask Weight</b>            | 0.7 kg                       |
| <b>Cylinder</b>               | Steel                        |
| <b>Pressure</b>               | 300 bar                      |
| <b>Dimensions</b>             | 200 x 600 x 300 mm           |
| <b>High Pressure Hoses</b>    | Tefsel over stainless steel  |
| <b>Medium Pressure Hoses</b>  | EPDM                         |
| <b>High Pressure Parts</b>    | Nickel/Chromium Plated Brass |
| <b>Backplate</b>              | Heat Resistant Polymer       |
| <b>Webbing</b>                | Nylon                        |
| <b>Dimensions (h x w x d)</b> | 200 x 570 x 280 mm           |
| <b>Weight</b>                 | 4.5 kg                       |

### Ordering Information

| Product Number | Product Name  |
|----------------|---|
| <b>731429</b>  | <b>SCBA Spiromatic 90U S-Mask First Breath*</b>                   |
| 731435         | SCBA Spiromatic 90U S-Mask First Breath Extra Air Connection      |
| 731439         | SCBA Spiromatic 90U S-Mask Ambient Air Hatch                      |
| 731459         | SCBA Spiromatic 90U S-Mask Ambient Air Hatch Extra Air Connection |

### Accessories

| Product Number | Product Name  |
|----------------|---|
| 32382-03       | Evac Hood with 1.5 m Hose with Euro Female Coupling, with Bag |
| 690610         | Dust Plug   |
| FFB/AT41       | 4 Tally BA Control Board                                      |
| FFB/AT121      | 12 Tally BA Control Board                                     |
| FFB/ATALL      | BA Control Board Tallies                                      |

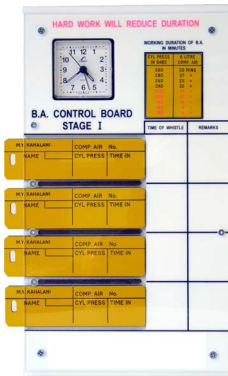
### TECHNICAL DATA

|                          | Steel Cylinder with Operating Valve | Composite Cylinder with Operating Valve | Steel Cylinder with Excess Flow Valve | Composite Cylinder with Excess Flow Valve |
|--------------------------|-------------------------------------|---|---------------------------------------|---|
| <b>Working Pressure</b>  | 300 Bar                             | 300 Bar                                 | 300 Bar                               | 300 Bar                                   |
| <b>Water Volume</b>      | 6.0 litre                           | 6.8 litre                               | 6.0 litre                             | 6.8 litre                                 |
| <b>Air Capacity</b>      | 1800 litres                         | 2040 litres                             | 1800 litres                           | 2040 litres                               |
| <b>Weight</b>            | 9.3 Kg                              | 4.0 Kg                                  | 9.4 Kg                                | 4.1 Kg                                    |
| <b>Diameter</b>          | 140 mm                              | 165 mm                                  | 140 mm                                | 165 mm                                    |
| <b>Length with valve</b> | 580 mm                              | 525 mm                                  | 580 mm                                | 525 mm                                    |

**S-Mask First Breath**



**S-Mask Ambient Air**



**BA CONTROL BOARD**

- A high level control for wearers of breathing apparatus in hazardous conditions is of utmost importance in order to ensure their safety!

**Approvals**

EC type examination certificate by DNV-GL, Marine Equipment Directive 2014/90, MED/3.7 plus MED/7.1 (entry and work in gas-filled space)

SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7, FSS Code 3, IBC Code 14, IGC Code 14 and IMO MSC.1/Circ.1499

Tested according to EN 136:1998 including AC:2003 (Class 3), EN 137:2006 (Type 2), ISO 23269- 2:2011 and ISO 23269-3:2011

Personal Protective Equipment, PPE 89/686/EEC, Article 11B, Tested according to EN 136:1998 including AC:2003 (Class 3), EN 137:2006 (Type 2),

Pressure Equipment Directive, Modules B and D

USA: 42 CFR, subpart 84 (NIOSH) - 90

USA with CGA connector



**Spares**

| Product Number | Product Name   |
|----------------|--|
| 31821-01       | S-Mask with Breathing Valve First Breath Version (Standard Size) |
| 31820-01       | S-Mask with Breathing Valve Ambient Air Version (Standard Size)  |
| 314864         | Head Harness   |
| 590679         | High Pressure Hose   |
| 590711         | Pressure Gauge   |
| <b>522086</b>  | <b>Cylinder Test Gauge*</b>                                      |
| 590752         | Pressure Regulator R-402 F/S. Air                                |
| 533521         | Neck Strap for Mask  |
| 590760         | Med Pressure Hose 135/16   |
| 590604         | Cylinder Strap   |
| 532028         | Harness for Spiromatic   |
| 532929         | Breathing Hose   |
| 537191         | Air Hose 15 m with Coupling                                      |
| 590554         | Buckle Male for Harness Assembly                                 |
| 590562         | Shoulder Strap Lower Part  |
| 98 831-03      | Complete valve with EFV fitted                                   |
| <b>690453</b>  | <b>Steel Cylinder with Operating Valve with Air*</b>             |
| 690461         | Steel Cylinder with Operating Valve without Air                  |
| 690454         | Steel Cylinder with Excess Flow Valve with Air                   |
| 690462         | Steel Cylinder with Excess Flow Valve without Air                |
| <b>739961</b>  | <b>Composite Cylinder with Operating Valve with Air*</b>         |
| 739979         | Composite Cylinder with Operating Valve without Air              |
| 739962         | Composite Cylinder with Excess Flow Valve with Air               |
| 739980         | Composite Cylinder with Excess Flow Valve without Air            |

# SPIRO AIR TROLLEY 25M HOSE

- Standard trolley includes 25 m hose (on manual roller) fitted with euro coupling and couplings on the front of the trolley
- Compact frame
- Retractable handle
- Loud pneumatic whistle end of cylinder service warning
- 4 high pressure independent hoses and hand wheel allowing you to increase duration by rotating cylinders and to drain each hose separately
- Additional Y to reach 4 mp outlet available
- Cylinders are not included



## TECHNICAL DATA

|                            |   |
|----------------------------|---|
| <b>Cylinder Pressure</b>   | 200 or 300 bars   |
| <b>Outlet Pressure</b>     | 8.5 bars - Other pressure can be provide by the manufacturer in factory (6 to 8.5 bars) |
| <b>Flow Rate</b>           | 800 litres / minutes  |
| <b>Trolley Conformity</b>  | EN14593-1 2005  |
| <b>MP Hose Conformity</b>  | EN14593/14594   |
| <b>External Dimensions</b> | L 800 x W 600 x H 1000 mm   |

### Please note

- These devices are not designed for underwater use
- Use only breathing air cylinders which comply with standard EN 12021
- Do not use oxygen or oxygen enriched air
- Only use hoses which comply with standard EN 14593/14594
- Maximum length of supply hose is 50 m
- When in use, the supply system must constantly be monitored by a trained person

### Before use

- Make sure that the high-pressure cylinders are filled at the correct operating pressure
- Check the compatibility and proper operating condition of the quick couplings
- The portable source can only be used in the horizontal position (vertical position solely for storage and carrying)
- Maximum output of 700 NI/min
- Output pressure of 8.5 bar (+/- 0.5 bar)

### Storage

- Store the device in a dry, temperate, dust-free room  
**DO NOT STORE IN A HOT PLACE AND IN FULL DAYLIGHT**

## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 731460         | Standard Trolley includes 25 m Hose (on manual roller) fitted with Euro coupling and 2 couplings on the front of the trolley |

## Accessories

### Medium pressure hoses (if required)

| Product Number | Product Name          |
|----------------|-----------------------|
| 30105-01       | 10 m, Euro Connection |
| 30105-02       | 15 m, Euro Connection |
| 30105-03       | 20 m, Euro Connection |
| 30105-04       | 25 m, Euro Connection |
| 30105-05       | 50 m, Euro Connection |

## Available Configurations

Available in following configurations

- Trolley 2 x Cylinders - 6L/200B, 6L/300B, 6.8L/300B
- 4 x Cylinders - 6L/200B, 6L/300B, 6.8L/300

### Cylinders are not included

# SPIROSCOPE (EEBD)

- Used for emergency escape from any confined spaces
- Low service cost, no preventive maintenance required
- Unique patented automatic ambient air valve
- Unique patented air supply system in the hood
- Two-layered hood, outer and inner
- Very flexible neck seal
- Quiet air delivery system
- Fail safe quick start mechanism
- Compressed breathing air technology
- Quick fill system
- Available with NIOSH approval (USA) on request



## Ordering Information

| Product Number | Product Name                          |
|----------------|---------------------------------------|
| 731491         | Spiroscope EEBD Filled with Air*      |
| 613783         | Spiroscope EEBD without Air*          |
| 95300-12       | Spiroscope EEBD filled NIOSH approved |

## Accessories

| Product Number | Product Name                                       |
|----------------|--|
| 613714         | Hood Assembly for Escape 15N En                    |
| 628164         | EEBD Wall Bracket Set                              |
| 638395         | EEBD Cabinet                                       |
| 613715         | Complete Regulator                                 |
| 591305         | Hose Assembly                                      |
| 613719         | Hose Assembly 15H                                  |
| 607950         | Filling Adapter for using air compressor refilling |

## Cylinder

| Volume         | Pressure | Duration | Material         |
|----------------|----------|----------|------------------|
| 3 L            | 200 bar  | 15 min   | Steel /Composite |
| 210 Cubic Inch | 3000 psi | 15 min   | Steel /Composite |

## Service requirement

No preventive maintenance on the mask, cylinder inspection after 5 years

## Approvals

EC type Examination certificate by DNV-GL, Directive 2014/90, on maritime equipment (MED/3.41 Emergency escape breathing devices (EEBD))

SOLAS 74 as amended, Regulation II-2/13, FSS Code 3 and IMO MSC/Circ. 849 Tested according to EN1146 ISO 23269-1:2008

Personal Protective Equipment, PPE 89/686/EEC, Article 11B tested to EN1146 Pressure Equipment Directive, PED Modules B and D

USA: 42 CFR, subpart 84 (NIOSH)



## TECHNICAL DATA

|                         |                                |
|-------------------------|--------------------------------|
| Outer Hood Material     | Coated PVC, fluorescent yellow |
| Inner Hood Material     | Spandex                        |
| Inner Mask Material     | Natural rubber                 |
| Visor Material          | Surface treated PVC            |
| Neck Seal Material      | Silicone                       |
| Breathing Hose Material | Wire reinforced PVC            |
| Carrying Bag Material   | PVC coated polyamid            |
| Dimensions (h x w x d)  | 500 x 230 x 130 mm             |
| Weight Filled           | 5.5 kg                         |
| Weight Unfilled         | 4.8 kg                         |
| Inner/Outer Mask        | >450 / >650 Litres per minute  |
| Medium Pressure Range   | 5 – 11 bar                     |

# BREATHING APPARATUS CABINETS

- IP56 rated (IP54 rated for SOS100 and SOS923BA)
- Manufactured to be ideal for industrial, commercial and marine use
- Off-the-shelf cabinets that hold single escape sets and one or two full duration breathing apparatus sets
- Fire retardant
- Lloyds Register Type Test Approved
- Lightweight for easy attachment to walls and applications



## Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 1097324        | JB83BA Breathing Apparatus Cabinet  |
| FFCABJB54BA    | JB54BA Breathing Apparatus Cabinet  |
| FFCABJB08BA    | JB08BA Breathing Apparatus Cabinet  |
| FFCABSOS923BA  | SOS923BA SCBA Cabinet               |
| FFCABJB81BA    | JB81 EEBD Cabinet                   |
| 638395         | SOS100 Emergency Escape Set Cabinet |

# OCENCO EEBD

- Used for emergency escape from any confined spaces
- Closed circuit compressed O<sub>2</sub> system
- No annual service required, 15-year life cycle
- Supplied in orange storage case
- Quick, easy use
- Low lifecycle cost
- Belt wearable
- Full visibility
- Teflon® hood and breathing bag provide excellent heat and chemical resistance



## APPROVALS

EC type Examination certificate by ABS (MED), SOLAS, Personal Protective Equipment, PPE 8, Pressure Equipment Directive, PED Modules B and D

## TECHNICAL DATA

|                        |   |
|------------------------|---|
| Size                   | 170 x 170 x 76 mm                                 |
| Weight                 | 1.4 kg  |
| Minimum Usage Time     | 15 Minutes  |
| Maximum Usage Time     | 32 Minutes  |
| Donning Time           | <10 Seconds                                       |
| Storage Temperature    | -20 °C to 65 °C                                   |
| Service Cycle          | 15 Years  |
| Oxygen Delivery System | Automatic on, compressed oxygen, demand regulated |
| Inspection             | Annual visual for stored units                    |

## Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 735032         | M-20.2 EEBD Breathing Device Ocenco*      |
| 735040         | M-20.2t Maritime Training Package Ocenco* |
| 735036         | Bracket for M20.2 EEBD Ocenco*            |

## Accessories

| Product Number | Product Name                             |
|----------------|--|
| 643102         | M-20.2T Mouthpiece Assembly              |
| 643103         | M-20.2T Trainer Mouthpiece (Quantity 10) |
| 648000         | M-20.2T Secondary Container Orange       |
| 648051         | M-20.2T Secondary Container Blue         |

# S-CAP ESCAPE HOOD

- Bright yellow hood fitted with a wide lens
- Nose cup gives a perfect adaptation to a wide variety of head and face sizes
- multi-purpose filter with a broad protection range including carbon monoxide

## BENEFITS

- Adjustable head harness located on the outside of the hood is directly attached to the nose cup
- The hood material, as well as the harness and the lens, are resistant against heat and short flame contact
- S-CAP is protected and stored in a vacuum-sealed aluminised foil bag
- Maintenance-free for 4 years. Thereafter, testing is required. The maximum shelf life is 10 years.



## TECHNICAL DATA

|                              |                            |
|------------------------------|----------------------------|
| <b>Hood Material</b>         | Coated PVC                 |
| <b>Neck Seal</b>             | Cotton                     |
| <b>Lens</b>                  | PET                        |
| <b>Inner Mask</b>            | NR Natural Rubber, Grey    |
| <b>Filter</b>                | CO, gases from fire and P2 |
| <b>Weight</b>                | 630 g                      |
| <b>Service Time</b>          | Minimum 15 minutes         |
| <b>Inhalation Resistance</b> | 1.2 mbar                   |
| <b>Exhalation Resistance</b> | 0.5 mbar                   |

**Approvals**  
EN 403: 2004

## Ordering Information

| Product Number | Product Name                  |
|----------------|-------------------------------|
| 613874         | S-CAP Escape Hood in Pouch    |
| 613875         | S-CAP Escape Hood in Wall Box |

# SOPEP SPILL KITS

- Range of oil spill kits for all types and size vessels
- Enables clean up of hydrocarbons, solvents and other organic liquids
- Ideal when the requirement for speed and efficiency is integral to clean-up process
- Made from 100% polyethylene allowing for storage both internally and externally
- Water-repellency exceeds requirements of BS 7959-2:2000
- Refill sets can be supplied



## TECHNICAL DATA

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>Container size</b>   | 146 x 101 x 97.5 cm                 |
| <b>Container volume</b> | 1000 L                              |
| <b>Container colour</b> | Yellow                              |
| <b>Sorbency</b>         | 1 barrel<br>7 barrels<br>12 barrels |

## Ordering Information

| Product Number    | Product Name          |
|-------------------|-----------------------|
| SS/0170/SOPEP1BY  | Spill Kit - 1 Barrel  |
| SS/0170/SOPEP7BY  | Spill Kit - 7 Barrel  |
| SS/0170/SOPEP12BY | Spill Kit - 12 Barrel |

# T4 GAS DETECTION UNIT

- Integral rubber boot extremely rugged
- Light weight
- Simple one button operation
- Visual, audible and vibrating alarm
- 4 Sensors for 4 gases
- Unit built in prevention for overexposure to toxic gases
- 24 Hour run time 5.5 Hour recharge
- Data & event logging
- Clear screen with 180 flip for easy viewing
- Easy solutions for bump test and calibration
- A hand-pump can be used for pre-entry checking, with up to 20 m sampling hose



## APPROVALS

EMC Directive 2014/30/EU, ATEX, EMC, IECEx, UL, INMETRO



## Self-Service Kit

| Product Number | Product Name     |
|----------------|------------------|
| 778962         | T4 Service Offer |

## TECHNICAL DATA

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Durability</b>             | Drop 4 M (IP 67 and IP 65)        |
| <b>Battery</b>                | Li-Ion                            |
| <b>Battery Life</b>           | 24 h                              |
| <b>Recharge Time</b>          | 5.5 h                             |
| <b>Display</b>                | Front mounted, backlit, 180° flip |
| <b>Alarms Audible</b>         | >95 dB                            |
| <b>Alarm Light</b>            | Red / Blue with vibrate alert     |
| <b>Dimensions (h x w x d)</b> | 135 x 80 x 35 mm                  |
| <b>Weight</b>                 | 282 g                             |

## Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 778964         | T4 4 Gas Detector with Sensor Guard*      |
| 778984         | 20 m Hose and Handpump (T4 Aspirator Kit) |

## Included in 778964

- 778982 T4 power supply for cradle charger (Multi Regi Power supply unit)
- 778932 Charging cradle
- 778934 Bump/calibration plate
- 778976 Sensor filter plate
- Declaration of Conformity
- Calibration report
- Quick start guide

## Accessories

| Product Number | Product Name   |
|----------------|--|
| 620013         | Regulator for 34 L span gas cylinder (Stainless steel)   |
| 742951         | Gas 34 L disposable 4-MIX 100 ppm CO, 15 ppm H <sub>2</sub> S, 2.2% CH <sub>4</sub> , 18% O <sub>2</sub> * |
| 656843         | Telescopic Aspirator Probe 1 M   |
| 656835         | 1 m standard hose (includes tube insert)   |
| 656819         | 10 m standard hose (includes tube insert)  |
| 656827         | 20 m standard hose (includes tube insert)  |
| 778948         | Gas Pro and T4 USB Cable   |

## Spares

| Product Number | Product Name   |
|----------------|--|
| 778956         | T4 Sensor Replacement Kit  |
| 778940         | Tube Insert (connection from tube to flow plate) 10 Pieces       |
| 778938         | Elbow Tube Insert (connection from tube to flow plate) 10 Pieces |
| 778936         | T4 Hand Aspirator Bulb   |
| 778932         | Charging Cradle for T4   |
| 778982         | T4 Power supply for Cradle Charger                               |
| 778934         | Bump/Calibration Plate for T4                                    |
| 778976         | Sensor Filter Plate for T4                                       |



# GAS PRO 4 GAS DETECTOR

- Measures 4 gases
- Can pump with up to 30,0 meters sampling hose
- Full data/event logging for record keeping
- Robust unit for harsh environments ip65 & ip67
- One button for ease of use
- Top mount display for quick decision making
- Clear display with dual colour back light
- Front, top and side visible alarm windows
- Four sensor apertures
- Large resonant sound cavity for ultra-loud audible alarm
- Easy solutions for bump test and calibration



## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 778972         | Gas-Pro Gas Detector with built in pump and sensor guard* |

## Included in 778972

- 778944 Pumped flow plate, also for bump test, not for calibration
- 778950 Power cable (Charging lead)
- 778952 GAS-PRO Multi Region Power Supply
- Declaration of Conformity
- Calibration report
- Quick start guide
- CD Containing operation manual

## Accessories

| Product Number | Product Name  |
|----------------|---|
| 620013         | Regulator for 34 L span gas cylinder (Stainless steel)  |
| 742951         | Gas 34 L disposable 4-MIX 100 ppm CO, 15 ppm H <sub>2</sub> S, 2.2% CH <sub>4</sub> , *18% O <sub>2</sub> * |
| 778946         | Gas-Pro Charging Cradle (No power, need power supply)   |
| 656843         | Telescopic Aspirator Probe 1 m  |
| 656835         | 1 m standard hose (includes tube insert)  |
| 656819         | 10 m standard hose (includes tube insert)   |
| 656827         | 20 m standard hose (includes tube insert)   |
| 778942         | 30 m standard hose (includes tube insert)   |
| 778948         | Gas Pro and T4 USB Cable  |
| 778980         | Calibration Flow Plate for PC Calibration for Gas-Pro TK and Gas-Pro (no magnet)                            |

## Self-Service Kit

| Product Number | Product Name          |
|----------------|-----------------------|
| 778962         | Gas Pro Service Offer |

## TECHNICAL DATA

|                |   |
|----------------|---|
| Gases Measured | Oxygen, Flammable gases or vapours, Hydrogen Sulphide and Carbon Monoxide according to SOLAS requirement. Other gases are optional. |
| Durability     | Drop from 4 m and tested to IP65 and IP67   |
| Battery        | Li-Ion  |
| Battery Life   | 13 h  |
| Recharge Time  | 7.5 h   |
| Display        | Top mounted, Backlit  |
| Alarm          | Audible >95 db  |
| Alarm Light    | Red / Blue  |
| Vibrate Alert  | Yes   |
| Size H x W x D | 135 mm x 84 mm x 43 mm  |
| Weight         | 340 g   |

## APPROVALS

EMC Directive 2014/30/EU, ATEX, IECEx, UL, INMETRO



# CHEMICAL RESISTANT CLOTHING KIT

- Helmet with visor cap and bib
- Kit comes with suit, goggles, gloves and apron
- Gloves - Rubber gauntlet 43 cm long EN374
- Suit - Blue PVC with elasticated hood, single elasticated sleeves, elasticated single legs. polyester/nylon zip with double storm flap over.
- Press stud closure Size - Large chest 112 cm
- Apron - Blue PVC apron 76 x 93 cm with eyelet and tapes

## BENEFITS

- The fully approved helmet includes a visor for splash protection
- Goggles can be worn under the visor to ensure eyes are fully protected EN1661C
- Protecting hands is imperative so we include gauntlets to give full hand and lower protection
- Helmet Assembly - White safety helmet to EN397 High-density polyethylene shell, low-density polyethylene head harness, acetate
- visor BS2092 Grade 2 Chemical



## Approvals

EN374, EN397, BS2092 and EN1661C



## Ordering Information

| Product Number | Product Name                     |
|----------------|----------------------------------|
| 576843         | Chemical Resistant Clothing Kit* |

# CHEMICAL SUIT SAFETY BOOTS

- Steel toe cap and midsole
- Anti static
- Cold insulating
- Available in sizes 42 to 45
- EN 20345 type S5 HRO SRC
- EN 15090 type F3A

## BENEFITS

- Yellow to identify with chemical clothing
- Resistant to minerals, animal and vegetable oils & fats, disinfectants and various chemicals



## Ordering Information

| Product Number | Product Name                       |
|----------------|------------------------------------|
| 571018         | Chemical Suit Safety Boots Size 42 |
| 571026         | Chemical Suit Safety Boots Size 43 |
| 571034         | Chemical Suit Safety Boots Size 44 |
| 571042         | Chemical Suit Safety Boots Size 45 |

## Approvals

EN 20345 type S5 HRO SRC and EN 15090 type F3A



# MANTA SAR HELMET

- Multi-role rescue helmet
- SOLAS approved reflective tape for increased visibility at different angles
- Retractable internal eye shield for industrial eye protection; choose between clear, smoke or amber
- Compatible with a wide range of accessories
- Tested to five standards
- Seven colour options available

## Approvals

EN12492:2012 Mountaineering Helmet  
 PASO28:2002 Marine Safety Helmet  
 EN16471:2014 Firefighters helmets for wildland firefighting  
 EN16473:2014 Firefighters helmets for technical rescue  
 FS/ATV1 Quad & ATV helmet



## Ordering Information

| Product Number | Product Name     |
|----------------|------------------|
| 791533         | Manta SAR Helmet |

# BLUERAY MARINE RESCUE HELMET

- Various accessories available including, Visors, torch, communications and safety goggles
- Lightweight construction
- Suitable for working at height, water rescue, ship boarding, Wind farms

## TECHNICAL DATA

|                   |   |
|-------------------|---|
| Shell Material    | Carbon Composite                          |
| Weight            | 560 g                                     |
| Impact Protection | 100 joules on crown - 90 joules off crown |

## Approvals

PAS 028:2002, EN 166:2002, EN 12492:2012, EN 1384



## Ordering Information

| Product Number | Product Name              |
|----------------|---------------------------|
| 791534         | Blueray Helmet 52 - 62 cm |

# KORTEX HELMET

- Internal ratchet adjustment system and chin strap to provide the perfect fit
- ABS outer shell for impact protection
- PU foam lining for comfort and shock absorption
- Available in three colour ways
- Ventilation holes

## Approvals

CE APPROVED: CE EN1385



## Ordering Information

| Product Number | Product Name                          |
|----------------|---------------------------------------|
| 6315-S/M       | Kortex Helmet Red S/M - 50 - 54 cm    |
| 6315-L/XL      | Kortex Helmet Red L/XL - 58 - 62 cm   |
| 6316-S/M       | Kortex Helmet Blue S/M - 50 - 54 cm   |
| 6316-L/XL      | Kortex Helmet Blue L/XL - 58 - 62 cm  |
| 6317-S/M       | Kortex Helmet Black S/M - 50 - 54 cm  |
| 6317-L/XL      | Kortex Helmet Black L/XL - 58 - 62 cm |

# FULL BODY HARNESS

- 3 Point adjustment
- Lightweight
- Rear dorsal ring connection
- Can be used with a fall prevention device
- Universal sizing allows a requirement for fewer harnesses to be carried on board a vessel
- Flexible back panel for comfort, spreading any loads
- Quick adjustment buckles for multi person usage and increased levels of comfort
- Lightweight for the wearer when climbing or carrying out high levels of exertion



## TECHNICAL DATA

|                          |                          |
|--------------------------|--------------------------|
| Webbing                  | > 2500 daN               |
| Fittings                 | High Strength Zinc Plate |
| System Breaking Strength | 1500 daN                 |
| Net Weight               | 0.855 kg                 |

APPROVALS  
CE marked



## Ordering Information

| Product Number | Product Name                           |
|----------------|--|
| 777603         | Full Body Harness with Rear Attachment |

# SHOCK ABSORBING LANYARD 1.75 M



## TECHNICAL DATA

|                         |            |
|-------------------------|------------|
| Breaking Strength       | >15kN      |
| Shock Absorbing Element |            |
| Engaging Force          | > 2 kN     |
| Impact Force Reduction  | < 6 kN     |
| Polyester Webbing       |            |
| Width                   | 45mm       |
| Strength                | > 2000 daN |

## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| SBLAN/175W     | Protecta First Shock Absorbing Lanyard 1.75 m Scaffold hook                            |
| AE5220WAA      | Protecta First Shock Absorbing Lanyard 2 m with 2 x Screwgate Karabina 17 mm Opening   |
| AE529/1        | Protecta First Shock Absorbing Lanyard 1.5 m with 2 x Screwgate Karabina 17 mm Opening |

# REBEL SELF-RETRACTING LIFELINE

- Twist-lock zinc plated carabiner 16 kn gate strength with 18 mm opening
- Super-tough nylon housing
- Heat-shrunk clear pvc coating on shock pack
- Small opening snap hook or big opening rebar hook



Approvals  
CE EN360:2002

## TECHNICAL DATA

|                        |                                    |
|------------------------|------------------------------------|
| Webbing Material       | 25 mm Polyester                    |
| Cable                  | 5 mm Diameter                      |
| Recall Sprint Material | Stainless Steel                    |
| Connection Level       | Shoulder Height                    |
| Capacity               | 140 kg                             |
| Servicing              | 6 m and 4.5 m units are repairable |

## Ordering Information

| Product Number | Product Name                               |
|----------------|--|
| 3100423        | Rebel Self-retracting Lifeline 3.3 m       |
| 3100437        | Rebel Self-retracting Lifeline 6 m         |
| 3590024        | Rebel Self-retracting Lifeline 4.5 m Cable |



# FIRE EXTINCTION

**KEEPING CREW AND PASSENGERS SAFE IS  
THE NUMBER ONE PRIORITY WHILST AT SEA.**

Survitec offers a wide range of fire protection equipment, accessories and spares, including fire extinguishers, hoses, fire suppression and prevention systems, smoke detectors and appropriate storage.



**Proudly supplying fire  
safety solutions since  
1970.**

# FIRE SYSTEMS

## NFF XFLOW WATER MIST SYSTEMS

The Novenco Firefighting (NFF) Water Mist Solutions can be applied for total flooding, local application firefighting (LAFF), accommodation areas, galley and duct. The versatility of the solutions presents you with the option to integrate all systems into one. The system has a unique XFlow® water mist nozzle, which spreads fine water mist that extinguishes the fire quickly, without any risk to the people or equipment. The mist droplets vary in size and circulate in the air, suppressing the supply of oxygen and absorbing the heat. This is effective at breaking the chain of combustion.



XFlow® nozzle for machinery space



XFlow® nozzle for accommodation areas



XFlow® nozzle for galley



XFlow® nozzle for duct

### Nozzle

#### TECHNICAL DATA

|                            | LAFF   | Total flooding                                  | Accommodation                   | Duct                                    | Galley                                    |
|----------------------------|--|---|---------------------------------|---|---|
| <b>Types</b>               | Open   | Open  | Closed                          | Open                                    | Open                                      |
| <b>Material</b>            | Brass  | Brass   | Brass                           | Brass                                   | SST                                       |
| <b>Water Capacity</b>      | 1.2 to 1.4 l/min/m <sup>2</sup><br>(Q 6.7 to 7.7 bar(g)) | 1.4 to 1.8 l/min/m <sup>2</sup><br>(Q 9 bar(g)) | 1.5 to 2.0 l/min/m <sup>2</sup> | 12 l/min/m <sup>2</sup><br>(Q 6 bar(g)) | 10.6 l/min/m <sup>2</sup><br>(Q 7 bar(g)) |
| <b>Installation Height</b> | Up to 16.5 m above object                                | Up to 6.6 m above object                        | NA                              | NA                                      | NA  |

### Pump

#### TECHNICAL DATA

|                                     | LAFF                                     | Total Flooding                           | Accommodation                            | Duct                                     | Galley              |
|-------------------------------------|--|--|--|--|---------------------|
| <b>Type</b>                         | Centrifugal Multistage                   | Centrifugal Multistage                   | Centrifugal Multistage                   | Centrifugal Multistage                   | Three Bladder Tanks |
| <b>Material</b>                     | Cast Iron /<br>Stainless Steel           | Cast Iron /<br>Stainless Steel           | Cast Iron /<br>Stainless Steel           | Cast Iron /<br>Stainless Steel           | NA                  |
| <b>Voltage/<br/>Frequency</b>       | 3X400/50 And 3X440/60<br>(Or on Request) | 3X400/50 And 3X440/60<br>(Or on Request) | 3X400/50 And 3X440/60<br>(Or on Request) | 3X400/50 And 3X440/60<br>(Or on Request) | NA                  |
| <b>Insulation<br/>and Enclosure</b> | Class F, IP55                            | Class F, IP55                            | Class F, IP55                            | Class F, IP55                            | NA                  |

### Approvals

NFF's firefighting systems are approved by MED, international marine authorities and classification societies. NFF is MED module D approved. Survitec is certified according to ISO 9001.

NFF XFlow® Local Application system is type approved and certified to be in compliance with MSC/circ. 1387 type

NFF XFlow® Total Flooding system is type approved and certified to SOLAS chapter II-2 and IMO MSC1165

NFF XFlow® Accommodation system is type approved and certified in accordance with SOLAS chapter II-2 and Res. A.800(19) as amended by MSC265

NFF XFlow® Galley and Duct systems are type approved to ISO 15371:2015

# DRY CHEMICAL POWDER SYSTEM

Gas carriers have specific cargo containment and handling requirements due to the highly volatile nature of their cargo. In the event that flammable gases are ignited, extinguishing solutions that can be deployed quickly and effectively whilst minimising the risk to personnel and environment is required.

Dry Chemical Powder fire extinguishing system (DCP system) breaks down the chemical reaction within the fire and suppresses the flames almost immediately. The system is an effective, non-toxic alternative and is harmless to people and the environment. The system is extensively and independently tested, ensuring regulatory compliance. It can be applied on merchant marine and offshore structures as the design is in accordance with IGC and IBC codes.

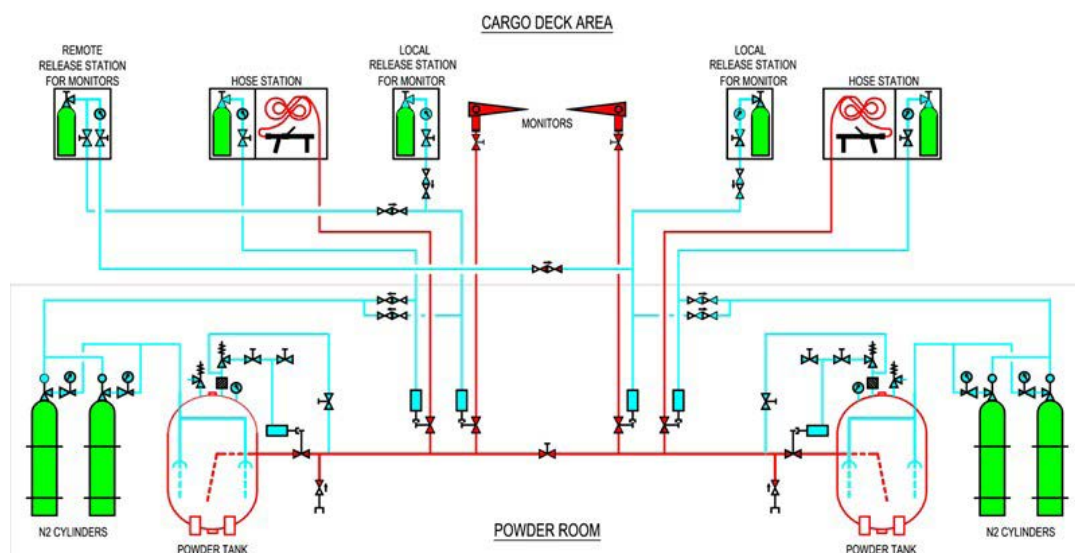


## TECHNICAL DATA

|                          |                                |
|--------------------------|--------------------------------|
| <b>Tanks</b>             |                                |
| <b>Material</b>          | Steel                          |
| <b>Capacity</b>          | 160 - 2500 kg                  |
| <b>Pressure Class</b>    | PN16                           |
| <b>Certification</b>     | As required by Class           |
| <b>Cylinders</b>         |                                |
| <b>Material</b>          | Steel                          |
| <b>Capacity</b>          | 50 L                           |
| <b>Pressure</b>          | 200 bar                        |
| <b>Certification</b>     | As required by Class           |
| <b>Powder</b>            |                                |
| <b>Type</b>              | BC Karate (Potassium Sulphate) |
| <b>Monitor</b>           |                                |
| <b>Material</b>          | Stainless Steel                |
| <b>Capacity</b>          | 10 - 25 kg                     |
| <b>Flange Connection</b> | DN50 and DN65                  |
| <b>Pistol</b>            |                                |
| <b>Material</b>          | Stainless Steel                |
| <b>Capacity</b>          | 3.5 kg                         |
| <b>Cabinets</b>          |                                |
| <b>Material</b>          | Stainless steel                |
| <b>Type of Operation</b> | Pneumatic                      |

### Approvals

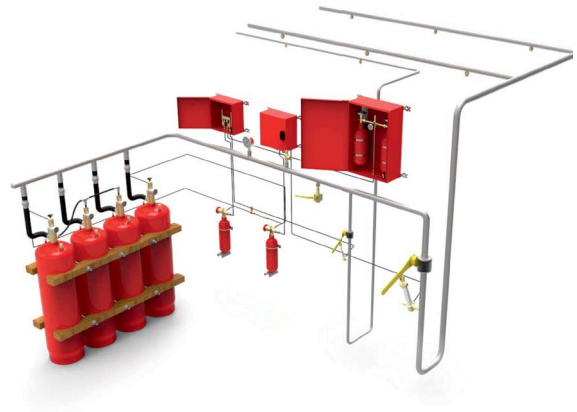
The DCP system is extensively and independently tested to MED -B & -D certified, fulfilling the mandatory IMO MSC.1/Circ. 1315, DNV-GL type approval certificate, DNV QS - Certificate of assessment - EC





# 1230 CLEAN AGENT SYSTEM

Traditionally, fire extinguishing systems for the offshore and maritime industry have contained components harmful to the environment and personnel, such as Halon and CO<sub>2</sub>. The 1230 system is a high quality, compliant fire extinguishing system using a clean agent. The system is both environmentally friendly and harmless to people. The solution is particularly suited for rooms with sensitive equipment and vessels where space is limited.



## Approvals

The Survitec 1230 system fulfils the requirements of IMO MSC/Circ. 848 and MSC.1/Circ. 1267, and is equivalent to Fire Extinguishing Systems required by SOLAS 1974 as amended, Chapter II-2. The system can be applied on merchant maritime and offshore structures as design is in accordance to SOLAS, class requirements and IMO MODU Code.



## Environmental properties comparison

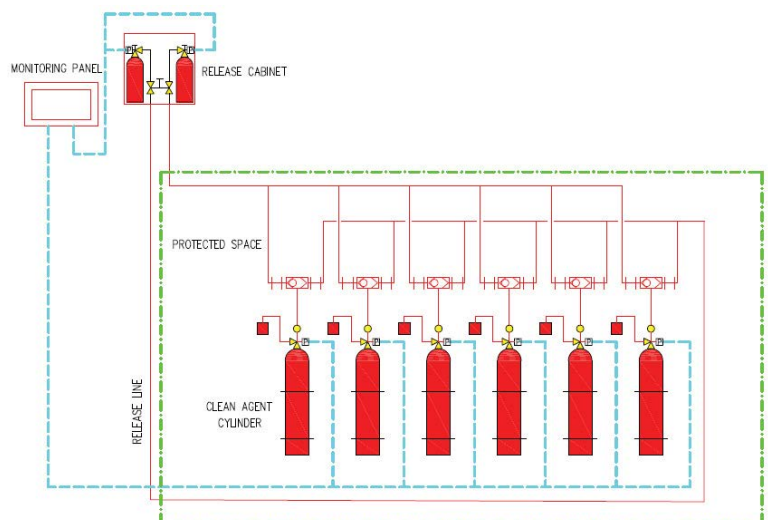
The below table compares Novec 1230 fluid with other gaseous fire extinguishing agents in the market:

| Properties                                      | Novec 1230 | Halon 1211        | Halon 1301        | HFC-227ea (FM-200) | HFC-236fa | HCFC Blend B     |
|---|------------|-------------------|-------------------|--------------------|-----------|------------------|
| Ozone Depleting Potential (ODP)                 | 0.0        | 4.0               | 12.0              | 0.0                | 0.0       | 0.014            |
| Global Warming Potential-IPCC 2001 <sup>1</sup> | 1          | 1300 <sup>2</sup> | 6900 <sup>2</sup> | 3500               | 9400      | 120 <sup>3</sup> |
| Atmospheric Lifetime (years)                    | 0.014      | 11.0              | 65                | 33                 | 220.0     | 1.4              |
| SNAP (Yes/No)                                   | Yes        | No                | No                | Yes                | Yes       | Yes/Phase-out    |

<sup>1</sup> IPCC Intergovernmental Panel on Climate Change Method 100 Year (ITH)

<sup>2</sup> Global Warming Potential 1998 WMO Method 100 Year (ITH)

<sup>3</sup> Data based on HCFC-123 only -- also contains CF4



# INERGEN® CLEAN AGENT SYSTEM

- Inergen is the only fire extinguishing system that is frequently demonstrated with an audience inside the protected room
- It contains 8% CO<sub>2</sub>. This means that the body can absorb as much oxygen as it would in a normal atmosphere
- It is stored in cylinders as compressed gas and does not create fog in the protected room when released

## Benefits

- Inergen does not decompose or react with other components in the fire. This eliminates corrosion or residual harmful agents in the protected space
- Inergen has no Ozone Depletion Potential (ODP) and no Global Warming Potential (GWP)



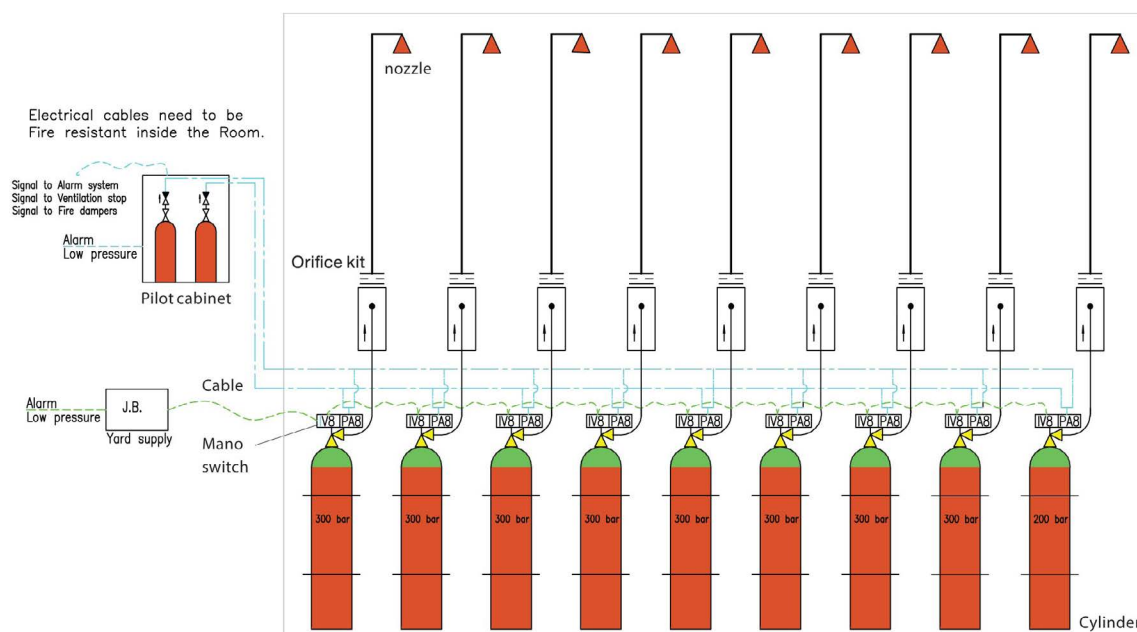
## TECHNICAL DATA

| Gas                                 |  |
|-------------------------------------|--|
| <b>INERGEN®</b>                     | Extinguishing gas for fixed installations  |
| <b>Gas Composition</b>              | 52% nitrogen (N <sub>2</sub> )<br>40% argon (Ar)<br>8% carbon dioxide (CO <sub>2</sub> ) |
| <b>NFPA Designation</b>             | IG541  |
| <b>Discharge Time After Release</b> | 120 s-   |
| Cylinders                           |  |
| <b>Volume</b>                       | 5 to 80 L  |
| <b>Pressure</b>                     | 200/300 bar  |
| <b>Gas Volume</b>                   | 1 to 24 Nm <sup>3</sup>  |
| <b>Weight Empty</b>                 | 9 to 108 kg  |
| <b>Weight Filled</b>                | 11 to 140 kg   |
| <b>Test Pressure</b>                | 300/450 bar  |
| <b>Colour</b>                       | Red, with green shoulder   |
| <b>Height</b>                       | 465 to 1780 mm   |
| <b>Diameter</b>                     | 140 to 267 mm  |
| <b>Standard &amp; Approval</b>      | EN1964-2, π TPED EC1999/36   |

## Approvals

The Inergen system can be applied on merchant marine and offshore structures as its design is in accordance to SOLAS and IMO MODU Code. It is tested according to the IMO test standards and has approvals from Classification Societies, UL, FM as well as other national authorities around the world.

It is approved according to NFPA 2001 as a Halon gas alternative and is listed as a clean agent.



# HIGH PRESSURE CO<sub>2</sub> SYSTEM

- Options of manual or pressure operated cylinder top valves to quickly discharge the CO<sub>2</sub> gas
- operated with self contained power source in release cabinets CO<sub>2</sub> pilot Cylinders, no need for an external power source
- The system is equipped with alarm devices which will pre-warn the crew to evacuate the protected space
- A safe release delay function to ensure the safety of the crew
- sequential release design ensures safe and effective operation according to class rule

## Benefits

- A cost effective solution for optimal system performance, keeping both installation and operational costs low
- The system is available on rack modules to save on installation time and costs
- Quick discharge reduces potential cost of damages
- Minimal and easy maintenance keeps operational costs low

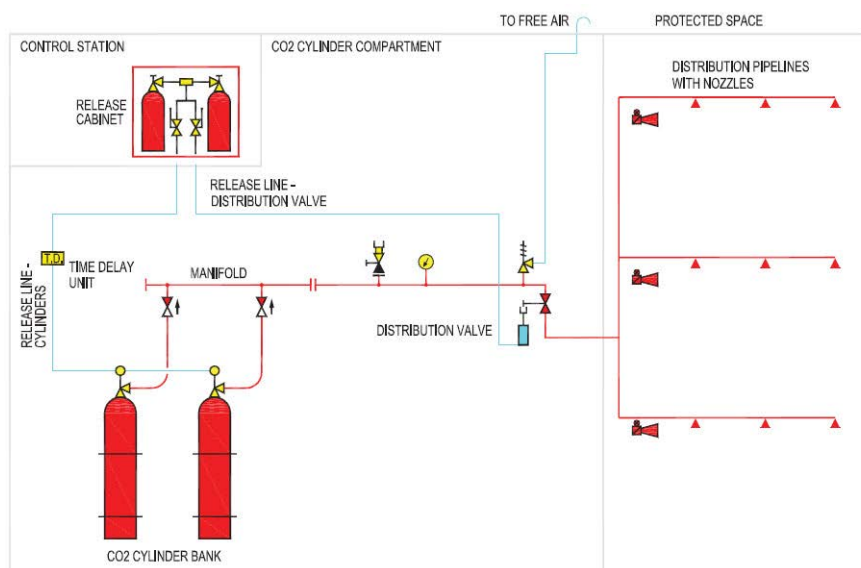
## Approvals

The Survitec CO<sub>2</sub> system is designed in accordance to SOLAS, Chapter II-2, Part C, Reg. 10 FSS Code, Chapter 5 IBC Code IGC Code Classification societies rules and regulations Authorities rules and regulations other standards (EN, ISO, DOT, etc). The system is type approved by all major classification societies.



## TECHNICAL DATA

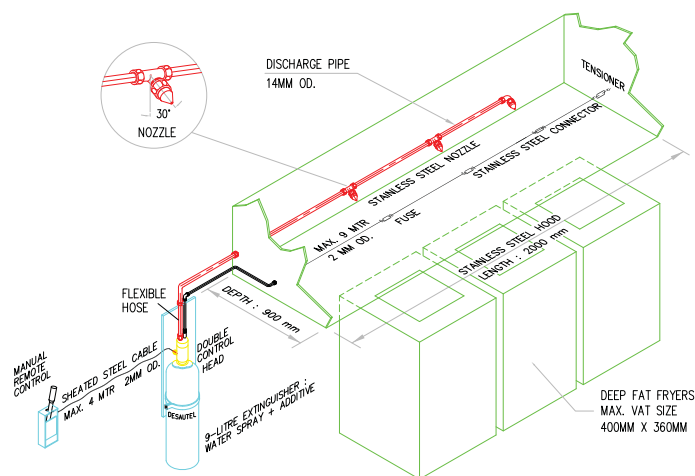
| Cylinders                     |                                     |
|-------------------------------|-------------------------------------|
| Volume                        | 67.5/80 L                           |
| Weight of CO <sub>2</sub> Gas | 45/55 kg                            |
| Weight of Filled Cylinder     | 125/140 kg                          |
| Storage Pressure at 20 °C     | 60 bar                              |
| Test Pressure                 | 250 bar                             |
| Certificates                  | All Major Classes                   |
| Standard                      | ISO, DOT, EN                        |
| Distribution Valves           |                                     |
| Sizes                         | DN20 to DN150                       |
| Nominal Pressure              | PN100 and PN160                     |
| Material of Construction Body | Steel                               |
| Stem and Ball                 | Stainless Steel                     |
| Certificates                  | DNV or according to specifications  |
| Release Cabinet               |                                     |
| Cylinders                     | 2.68 L with 1.78 kg CO <sub>2</sub> |
| Degree of Protection          | IP55                                |



# DEEP FAT COOKING FIRE SYSTEM

- Use a standard 9 litres water fire extinguisher with additives
- Provide protection for up to three deep fat fryers
- Easy and low cost installation with standard components
- All components on the galley hood in stainless steel
- All tubing and fittings of low pressure type
- Automatic operation with detection
- No electrical power required for operation

Deep-Fat Cooker FireExtinguishing System



## Approvals

Tested according to ISO 15371: 2009, Comply with SOLAS and approved by major classification societies (IACS), MED (Marine Equipment Directive) approved



## Accessories

| Product Number | Product Name                    |
|----------------|---------------------------------|
| 1054976        | Recharge Kit For DFC9           |
| 1054977        | 2 Nozzles and Fusible Links Kit |
| 1054978        | 1 Nozzle and Fusible Link Kit   |
| 1095591        | Nozzle for DFC9 System          |



## TECHNICAL DATA

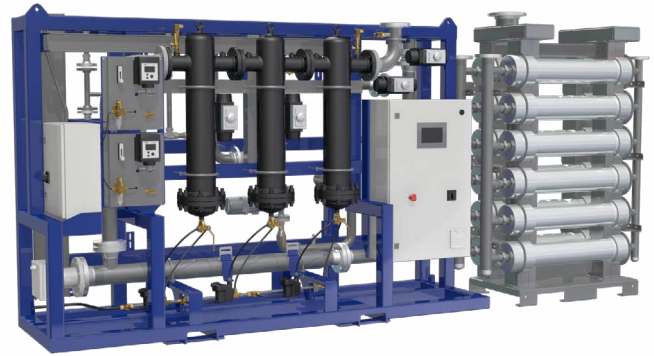
| Extinguisher                   |  |
|--------------------------------|--|
| Material                       | Steel, with Primer & Polyester Coating |
| Colour                         | Red, RAL 3000                          |
| CO <sub>2</sub> cartridge size | 80 g                                   |
| Capacity                       | 9 L                                    |
| Test pressure                  | 26 bar                                 |
| Pressure at Activation         | 6.5 bar                                |
| Design standard                | NF – EN3, MED                          |
| Weight                         |  |
| Empty without Trigger          | 6 kg                                   |
| Full with Trigger              | 16 kg                                  |
| Trigger                        |  |
| Material                       | Steel, Chrome Plated                   |
| Dimension Ø x w                | 38 x 174 mm                            |
| Weight                         | <1000 g                                |
| Fixing details                 | Bolt and Nut, M8                       |
| Switch                         | 1 pari NO/NC, IP 65                    |
| Nozzle                         |  |
| Material                       | stainless steel, 316 L                 |
| Type                           | BF4                                    |
| Flow rate at 3 bar             | 0,98 (l/min)                           |
| Fixing details                 | bolt and nut. M8                       |
| Pipe                           |  |
| Material                       | stainless steel, 316 L                 |

# NITROGEN SYSTEM

- Unique design for flexible installation
- Easy and reliable operation
- "State of the art", fully automated system that protects the equipment from damage and costly repairs

## Benefits

- Long lasting and reliable system
- Flexible and space saving installation
- Predictable delivery time and time saving installation
- Easy maintenance
- Low maintenance cost



## TECHNICAL DATA

| Compressors       |  | Nitrogen Generators  |                                      |
|-------------------|--|----------------------|--------------------------------------|
| Type              | Oil flooded screw compressors                      | Cabinets             | Up to 940 Nm <sup>3</sup> /h(Q95%)   |
| Control Method    | Modulating control and variable speed drives       | Open Skid Design     | up to 5300 Nm <sup>3</sup> /h(Q 95%) |
| Pressure          | 8 - 14 bar(g)                                      | Process Controlled   | PLC                                  |
| Cooling           | Air, Fresh or sea water cooled                     | Ambient Temperature  | 3 - 55 °C                            |
| Power Consumption | 35 kW per 100 Nm <sup>3</sup> /h (Q 95 % Nitrogen) | Pressure             | 7 - 14 bar                           |
| Starting Method   | Star / Delta                                       | Feed Air Temperature | Up to 60 °C                          |

## TECHNICAL DATA

| Nitrogen Specifications |                    |
|-------------------------|--------------------|
| Oil Content in Product  | Less than 10 ppb   |
| Particles in Product    | Max 0.01 Micron    |
| Purity                  | 95-99.9 % Nitrogen |
| Gas Outlet Dew Point    | -70 °C             |

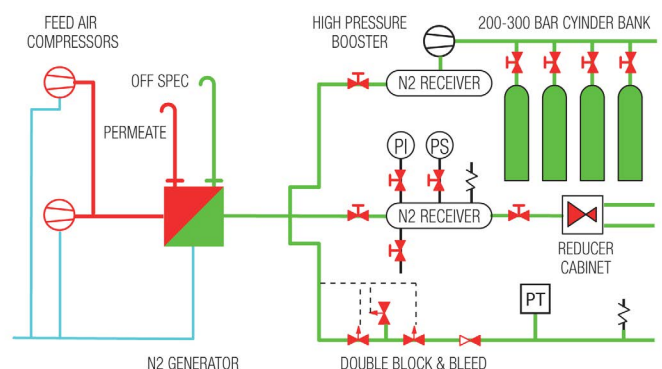
## TECHNICAL DATA

| Type                    | Nitrogen Capacities*<br>Q 95% | Feed Air Pressure<br>[bar] | Dimension<br>L x W x H<br>[mm] | Weight<br>[kg] | Dimension**<br>Qty x L x W x H<br>[mm] | Weight**<br>Qty x unit |
|-------------------------|-------------------------------|----------------------------|--------------------------------|----------------|--|------------------------|
| <b>Cabinet Design</b>   |                               |                            | <b>Cabinet</b>                 |                |  |                        |
| IGN-CU-50               | up to 50                      | 7 - 14                     | 1277 x 500 x 1092              | 230            | -                                      | -                      |
| IGN-CU-400              | 50 - 450                      | 7 - 14                     | 1430 x 805 x 2141              | 450            | -                                      | -                      |
| IGN-CU-900              | 450 - 940                     | 7 - 14                     | 1630 x 805 x 2145              | 730            | -                                      | -                      |
| <b>Open Skid Design</b> |                               |                            | <b>Filter Skid</b>             |                | <b>Membrane Skid</b>                   |                        |
| IGN-SU-1000             | 940 - 1315                    | 7 - 14                     | 2800 x 800 x 1900              | 1180           | 1 x 1565 x 665 x 2125                  | 1 x 680                |
| IGN-SU-2000             | 1315 - 2630                   | 7 - 14                     | 3100 x 900 x 2210              | 1850           | 2 x 1565 x 665 x 2125                  | 2 x 680                |
| IGN-SU-3000             | 2630 - 3950                   | 7 - 14                     | 4000 x 1100 x 2545             | 1930           | 2 x 1565 x 665 x 2125                  | 2 x 680                |
| IGN-SU-5000             | 3950 - 5265                   | 7 - 14                     | 4000 x 1100 x 2545             | 2030           | 3 x 1565 x 665 x 2125                  | 3 x 680                |

## MARITIME PROTECTION NITROGEN SYSTEM

### Approvals

The Maritime Protection Nitrogen system is based on membrane technology and designed in accordance with SOLAS, IMO MODU Code and other standards for the maritime markets. It is developed to meet any offshore specifications, including NORSOK. The system is delivered with all necessary approvals.



# STORED PRESSURE FIRE EXTINGUISHERS

## ABC POWDER STORED PRESSURE

- High fire ratings
- Safe firefighting
- High quality material and finish

### Benefits

- Our fire extinguishers boast high levels of mono ammonium phosphate giving you quicker firefighting capability even on electrical fires up to 35 kV
- High firefighting capabilities meaning quicker and safer firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



### Approvals

These fire extinguisher hold Apragaz notified body EC type examination certificate in accordance with Module B of the Maritime Equipment Directive 96/98 EC as amended (MED/3.2 Portable stored pressure fire extinguishers)

These extinguishers comply with European testing standards: EN 3-7



### Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 766995         | ABC Stored Pressure Fire Extinguisher 2 kg with bracket PP2P*     |
| 671594         | ABC Stored Pressure Fire Extinguisher 6 kg without bracket PP6P * |
| 739508         | ABC Stored Pressure Fire Extinguisher 9 kg without bracket PP9P   |
| 743104         | ABC Stored Pressure Fire Extinguisher 12 kg without bracket PP12P |

### Accessories

| Product Number | Product Name                                      |
|----------------|---|
| 671909         | 6 kg Fire Extinguisher Bracket with Strap         |
| 739516         | 9 kg Fire Extinguisher Bracket with Strap         |
| 743112         | 12 kg Fire Extinguisher Bracket with Strap        |
| 756387         | 12 kg Fire Extinguisher Bracket with Strap 5 pack |

### TECHNICAL DATA

|                             | 2 kg             | 6 kg             | 9 kg             | 12 kg            |
|-----------------------------|------------------|------------------|------------------|------------------|
| Capacity                    | 2 kg             | 6 kg             | 9 kg             | 12 kg            |
| Bracket                     | Yes              | No               | No               | No               |
| Minimum Discharge Range     | 3 m              | 4.5 m            | 4.5 m            | 4.5 m            |
| Test Pressure               | 27 bar           | 24 bar           | 24 bar           | 24 bar           |
| Working Pressure            | 13 bar (20 °C)   | 13.5 bar         | 13.5 bar         | 13.5 bar         |
| Weight Empty                | 2.1 kg           | 3.3 kg           | 4.4 kg           | 4.8 kg           |
| Weight Full                 | 4.1 kg           | 9.4 kg           | 13.5 kg          | 16 .9kg          |
| Height                      | 380 mm           | 530 mm           | 597 mm           | 630 mm           |
| Diameter                    | 110 mm           | 150 mm           | 180 mm           | 190 mm           |
| Fire Rating                 | 13A-89B-C        | 27A - 144B - C   | 43A-233B-C       | 55A-233B-C       |
| Operating Temperature Range | -20 °C to +60 °C | -20 °C to +60 °C | -20 °C to +60 °C | -20 °C to +60 °C |

# CO<sub>2</sub> STORED PRESSURE

- High fire ratings
- Safe firefighting
- High quality material and finish

## Benefits

- The CO<sub>2</sub> fire extinguishers are suitable to fight fires on live electrical installations and can be used on electrical fires up to 35 kV
- High firefighting capabilities meaning quicker and safer firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 667535         | CO <sub>2</sub> Stored Pressure Extinguisher 5 kg USC* |

## Accessories

| Product Number | Product Name                               |
|----------------|--|
| 668111         | 5 kg Fire Extinguisher Bracket with Strap* |

## Approvals

This fire extinguisher holds Bureau Veritas EC type examination certificate as per Module B of Directive 2014/90/EU of the European Parliament (MED/3.2 Portable fire extinguishers)

These extinguishers comply with European testing standards: EN 3-7:2004 incl. /A.1:2007, EN 3-8:2006 incl. /AC:2007, EN 3-9:2006 incl. /AC:2007 and EN 3-10:2009



## TECHNICAL DATA

|                             |                   |
|-----------------------------|-------------------|
| Capacity                    | 5 kg              |
| Bracket                     | No                |
| Discharge time              | 12 s              |
| Burst Disc Pressure         | 200 bar           |
| Test Pressure               | 250 bar           |
| Working Pressure            | 169.3 bar         |
| Weight Full                 | 14 kg             |
| Height                      | 930 mm            |
| Diameter                    | 139.7 mm          |
| Fire Rating                 | 89B               |
| Operating Temperature Range | -30 °C to + 60 °C |

# CARTRIDGE FIRE EXTINGUISHERS

## ABC POWDER CARTRIDGE

- High fire ratings
- High firefighting capability
- Safe firefighting
- High quality material and finish

### Benefits

- High levels of mono ammonium phosphate gives you quicker firefighting capability even on electrical fires up to 35 kV
- High firefighting capabilities meaning quicker and safer firefighting
- High concentrates of firefighting medium ensure quicker firefighting capability to reduce damage costs
- Integrated flow control valve at the hose end equips you with a direct and better control to fight fire
- Our higher than normal industry standard burst pressure for the cylinder and hose safeguard you when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin

### Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of Directive 2014/90/EU of the European Parliament (MED/3.2 Portable fire extinguishers) This fire extinguisher holds Certificate of type approval from China Classification Society

These extinguishers comply with European testing standards: EN 3-7 : 2004 (+A1:2007) and EN 3-8 : 2006 (+AC 2007) and EN 3-10 : 2009.



### Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 766988         | ABC Cartridge Fire Extinguisher without Bracket P6P 6 kg*   |
| 766990         | ABC Cartridge Fire Extinguisher without Bracket P9P 9 kg*   |
| 766994         | ABC Cartridge Fire Extinguisher without Bracket P12P 12 kg* |

### Accessories

| Product Number | Product Name  |
|----------------|---|
| 711416         | Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg* |
| 668285         | ABC Powder Refill 6 kg  |
| 668293         | ABC Powder Refill 9 kg  |
| 668319         | ABC Powder Refill 12 kg   |
| 668236         | CO <sub>2</sub> Cartridge 120 g for 6 kg                          |
| 668244         | CO <sub>2</sub> Cartridge 160 g for 9 kg                          |
| 668251         | CO <sub>2</sub> Cartridge 180 g for 12 kg                         |
| 669655         | Fire Extinguisher Bracket Straps 5 Pack*                          |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack                          |
| 667592         | Safety Pin Yellow 10 Pack   |
| 667600         | Wire and Seal 90 Pack   |

### TECHNICAL DATA

|                             | 6 kg             | 9 kg             | 12 kg            |
|-----------------------------|------------------|------------------|------------------|
| Capacity                    | 6 kg             | 9 kg             | 12 kg            |
| Bracket                     | No               | No               | No               |
| Minimum Discharge Range     | 4 m              | 4 m              | 4 m              |
| Test Pressure               | 26 bar           | 26 bar           | 26 bar           |
| Working Pressure            | 13 bar           | 15 bar           | 14.2 bar         |
| Weight Empty                | 5 kg             | 6 kg             | 7.8 kg           |
| Weight Full                 | 11 kg            | 15 kg            | 19.8 kg          |
| Height Including hose       | 500 mm           | 640 mm           | 730 mm           |
| Diameter                    | 180 mm           | 180 mm           | 180 mm           |
| Fire Rating                 | 34A/233B/C       | 43A/233B/C       | 55A/233B/C       |
| Operating Temperature Range | -30 °C to +60 °C | -30 °C to +60 °C | -30 °C to +60 °C |



# WATER CARTRIDGE

- High fire ratings
- Safe firefighting
- High quality material and finish

## Benefits

- Our water fire extinguishers have a high fire rating giving quicker firefighting capability even on electrical fires up to 35kV
- High firefighting capabilities meaning quicker and safer firefighting
- Integrated flow control valve at the hose end equips the user with a direct and better control to fight fire
- Our higher than normal, industry standard burst pressure for the cylinder and hose safeguard the user when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



## Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of Directive 2014/90/EU of the European Parliament (MED/3.2 Portable fire extinguishers)

This fire extinguisher holds Certificate of type approval from China Classification Society

These extinguishers comply with European standards: EN 3-7:2004 incl. /A.1:2007, EN 3-8:2006 incl. /AC:2007 and EN 3-10:2009



## Ordering Information

| Product Number | Product Name                             |
|----------------|--|
| 766982         | Water Cartridge Fire Extinguisher E9 9 L |

## Accessories

| Product Number | Product Name  |
|----------------|---|
| 711416         | Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg* |
| 669655         | Fire Extinguisher Bracket Straps 5 Pack*                          |
| 668178         | CO <sub>2</sub> Cartridge 60 g for 9 L                            |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack                          |
| 667592         | Safety Pin Yellow 10 Pack   |
| 667600         | Wire and Seal 90 Pack   |

## TECHNICAL DATA

|                             |                 |
|-----------------------------|-----------------|
| Capacity                    | 9 L             |
| Bracket                     | No              |
| Minimum Discharge Range     | 4 m             |
| Test Pressure               | 26 bar          |
| Working Pressure            | 11.2 bar        |
| Weight Empty                | 6 kg            |
| Weight Full                 | 15 kg           |
| Hose Height                 | 640 mm          |
| Diameter                    | 180 mm          |
| Fire Rating                 | 21A             |
| Operating Temperature Range | +5 °C to +60 °C |

# FOAM CARTRIDGE

- High fire ratings
- Safe firefighting
- High quality material and finish

## Benefits

- Specially blended high performance AFFF additive enables you to fight fires quickly and efficiently ensuring damage costs are reduced to a minimum.
- Our standard foam fire extinguishers have a high fire rating giving quicker firefighting capability even on electrical fires up to 35 kV
- High firefighting capabilities meaning quicker and safer firefighting
- Integrated flow control valve at the hose end equips you with a direct and better control to fight fire
- The extinguisher for polar solvents is very efficient on e.g. alcohol fires
- Our higher than normal industry standard burst pressure for the cylinder and hose safeguard you when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 766984         | Foam Cartridge Fire Extinguisher 9 L E9A1EV without bracket*                         |
| 01310468       | Foam Cartridge Fire Extinguisher 9 L Polar Solvent (Alcohol) without Bracket E9A6EVP |

## Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of Directive 2014/90/EU of the European Parliament (MED/3.2 Portable fire extinguishers)

These extinguishers comply with European standards: EN 3-7 : 2004 (+A1:2007) and EN 3-9 : 2006 (+AC 2007) and EN 3-10 : 2009.



## Accessories

| Product Number | Product Name  |
|----------------|---|
| 711416         | Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg* |
| 668178         | CO <sub>2</sub> Cartridge 60 g 9 L                                |
| 736579         | Fire Extinguisher Foam Charge 90 ml for 9 L Foam                  |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack                          |
| 669655         | Fire Extinguisher Bracket Straps 5 Pack*                          |
| 667592         | Safety Pin Yellow 10 Pack   |
| 667600         | Wire and Seal 90 Pack   |
| 02301261       | Foam charge 540 ml for polar solvent (Alcohol)                    |

## TECHNICAL DATA

|                             |                 |                           |
|-----------------------------|-----------------|---------------------------|
| Capacity                    | 9 L             | 9 L polar solvent         |
| Bracket                     | No              | No                        |
| Minimum Discharge Range     | 4 m             | 3 m                       |
| Test Pressure               | 26 bar          | 26 bar                    |
| Working Pressure            | 11.2 bar        | 11.2 bar                  |
| Weight Empty                | 6 kg            | 7 kg                      |
| Weight Full                 | 15 kg           | 16 kg                     |
| Height                      | 640 mm          | 640 mm                    |
| Diameter                    | 180 mm          | 180 mm                    |
| Fire Rating                 | 27A - 233B      | 21A 183B + Polar solvents |
| Operating Temperature Range | +5 °C to +60 °C | +5°C to +60 °C            |

# FOAM CARTRIDGE LOW TEMPERATURE

- High fire ratings
- Safe firefighting
- High quality material and finish

## Benefits

- Special blended high-performance premix for use down to -30 °C
- Fight fires quickly and efficiently ensuring damage costs are reduced to a minimum
- The extinguishers can be used on electrical fires up to 35 kV
- Integrated flow control valve at the hose end equips you with a direct and better control to fight fire
- Our higher than normal industry standard burst pressure for the cylinder and hose safeguard you when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin

## Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of directive 2014/90/EU of the European Parliament (MED 3.2 Portable fire extinguishers)

These extinguishers comply with European standards: EN 3-7:2004 incl. /A.1:2007, EN 3-8:2006 incl. /AC:2007, EN 3-9:2006 incl. /AC:2007 and EN 3-10:2009



## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 01310708       | Foam Cartridge Low Temperature Fire Extinguisher 9 L (AL9S-30) without bracket |

## Accessories

| Product Number | Product Name  |
|----------------|---|
| 711416         | Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg* |
| 669655         | Fire Extinguisher Bracket Straps 5 Pack*                          |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack                          |
| 667592         | Safety Pin for Yellow 10 Pack                                     |
| 667600         | Wire and Seal 90 Pack   |

## TECHNICAL DATA

|                             |                  |
|-----------------------------|------------------|
| Capacity                    | 9 L              |
| Bracket                     | No               |
| Minimum Discharge Range     | 4 m              |
| Test Pressure               | 26 bar           |
| Working Pressure            | 11.2 bar         |
| Weight Empty                | 7 kg             |
| Weight Full                 | 16 kg            |
| Hose Length                 | 640 mm           |
| Wheel Diameter              | 180 mm           |
| Fire Rating                 | 27A 233B         |
| Operating Temperature Range | -30 °C to +60 °C |

# POWDER CARTRIDGE METAL FIRE

- High fire ratings
- Safe firefighting
- High quality material and finish

## Benefits

- D-Powder for fighting fires in metals, such as magnesium, aluminium, zinc, calcium and sodium
- Fight fires quickly and efficiently ensuring damage costs are reduced to a minimum
- Integrated flow control valve at the hose end equips you with a direct and better control to fight fire
- Our higher than normal industry standard burst pressure for the cylinder and hose safeguard you when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



## Approvals

Type approval according to DIN EN 3-7 : 2007 in conjunction with the requirements of DIN 3-10 : 2009

## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 01701358       | Powder Cartridge Metal Fire Extinguisher 9 kg (P9FaM) |

## Accessories

| Product Number | Product Name  |
|----------------|---|
| 711416         | Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg* |
| 668244         | CO <sub>2</sub> Cartridge 160 g for P9FaM                         |
| 669655         | Fire Extinguisher Bracket Straps 5 Pack*                          |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack                          |
| 667592         | Safety Pin Yellow 10 Pack   |
| 667600         | Wire and Seal 90 Pack   |

## TECHNICAL DATA

|                             |                  |
|-----------------------------|------------------|
| Capacity                    | 9 kg             |
| Bracket                     | No               |
| Minimum Discharge Range     | 4 m              |
| Test Pressure               | 26 bar           |
| Working Pressure            | 15 bar           |
| Weight Empty                | 7 kg             |
| Weight Full                 | 16 kg            |
| Hose Length                 | 1100 mm          |
| Wheel Diameter              | 180 mm           |
| Fire Rating                 | D                |
| Operating Temperature Range | -30 °C to +60 °C |

# FAT FIRE CARTRIDGE

- A and F rated- specially designed for kitchen oil fires (Class F)
- High firefighting capability
- Safe firefighting
- High quality material and finish

## Benefits

- The fat fire extinguishers contain a high performance wet chemical designed for fat fires. In addition, it will extinguish electrical fires up to 35 k
- High firefighting capabilities meaning quicker and safer firefighting
- The integrated flow control valve at the curved hose end equips the user with a direct and better control to fight the fire
- The higher than normal, industry standard burst pressure for the cylinder and hose safeguard the user when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin

## Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of directive 2014/90/EU of the European Parliament (MED/3.43 Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type). (MED/3.2 Portable fire extinguishers)

This fire extinguishers comply with European testing Standards:



ISO 15371 (2015)  
EN 3-7 (2004) + A1 (2007)  
EN 3-8 (2006) + AC (2007)  
EN 3-10 (2009)



## Ordering Information

| Product Number | Product Name                                  |
|----------------|---|
| 763870         | Fat Fire Cartridge Fire Extinguisher 6 L AL6F |

## Accessories

| Product Number | Product Name   |
|----------------|--|
| <b>711416</b>  | <b>Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg*</b> |
| 668178         | CO <sub>2</sub> Cartridge 60 g E9A1                                      |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack                                 |
| <b>669655</b>  | <b>Fire Extinguisher Bracket Straps 5 Pack*</b>                          |
| 667592         | Safety Pin Yellow 10 Pack  |
| 667600         | Wire and Seal 90 Pack  |

## TECHNICAL DATA

|                             |                  |
|-----------------------------|------------------|
| Capacity                    | 6 L              |
| Bracket                     | No               |
| Minimum Discharge Range     | 3 m              |
| Test Pressure               | 26 bar           |
| Working Pressure            | 11.2 bar         |
| Weight Empty                | 6 kg             |
| Weight Full                 | 12 kg            |
| Height                      | 500 mm           |
| Diameter                    | 180 mm           |
| Fire Rating                 | 21A 75F          |
| Operating Temperature Range | -20 °C to +60 °C |

# WHEELED FIRE EXTINGUISHERS

## WHEELED ABC POWDER CARTRIDGE

- High fire ratings
- Easy firefighting capability
- Safe firefighting
- High quality material and finish

### Benefits

- Our fire extinguishers boast high levels of mono ammonium phosphate giving you quicker firefighting capability even on electrical fires up to 35 kV
- High firefighting capabilities meaning quicker and safer firefighting
- Long and non kinking hose with opening tap equips you with a direct and better control to fight fire
- Our higher than normal, industry standard burst pressure for the cylinder and hose safeguard you when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin

### Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of directive 2014/90/EU of the European Parliament (MED/3.52 Non-portable and transportable fire extinguishers )

These fire extinguishers hold Certificate of type approval from China Classification Society

These extinguishers comply with European testing standards: EN 1866-1 : 2007 and EN 1866-2 : 2014



### Ordering Information

| Product Number | Product Name                               |
|----------------|--|
| 778991         | Wheeled ABC Fire Extinguisher 25 kg SP25P* |
| 778994         | Wheeled ABC Fire Extinguisher 50 kg SP50P* |

### Accessories

| Product Number | Product Name   |
|----------------|--|
| 667600         | Wire and Seal 90 Pack                                  |
| 674317         | ABC Powder Refill 25 kg                                |
| 668327         | CO <sub>2</sub> Cartridge 450 g for 25 kg              |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack               |
| 667899         | Safety Pin with Ring 25 kg 10 Pack                     |
| 735046         | CO <sub>2</sub> Cylinder 900 for SP50P/SE135A2 Head Up |
| 667824         | Cylinder valve connection Seal 25 Pack                 |
| 667766         | O-Ring for Top E45A2/P50/P50P 5 Pack                   |
| 667683         | Safety Pin 50 kg 10 Pack                               |

### TECHNICAL DATA

|                             |                  |                  |
|-----------------------------|------------------|------------------|
| Capacity                    | 25 kg            | 50 kg            |
| Bracket                     | No               | No               |
| Minimum Discharge Range     | 8 m              | 8 m              |
| Test Pressure               | 22 bar           | 26 bar           |
| Working Pressure            | 15 bar           | 16.4 bar         |
| Weight Empty                | 24 kg            | 34.5 kg          |
| Weight Full                 | 49 kg            | 84.5 kg          |
| Height with Handle          | 1000 mm          | 1015 mm          |
| Width with Wheels           | 420 mm           | 450 x 500 mm     |
| Hose Length                 | 3.5 m            | 5 m              |
| Wheel Diameter              | 300 mm           | 300 mm           |
| Fire Rating                 | A-IIB-C          | A-IVB-C          |
| Operating Temperature Range | -30 °C to +60 °C | -30 °C to +60 °C |

# WHEELED CO<sub>2</sub>

- High fire ratings
- High firefighting capability
- Safe firefighting
- High quality material and finish

## Benefits

- Long and non-kinking hose with insulated spray nozzle equips you with a direct and better control to fight fire
- High firefighting capabilities meaning quicker and safer firefighting
- Our higher than normal, industry standard burst pressure for the cylinder and hose safeguard you when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



## Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 767929         | Wheeled CO2 Fire Extinguisher 9 kg U9C*   |
| 767930         | Wheeled CO2 Fire Extinguisher 20 kg U20C* |

## Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of directive 2014/90/EU of the European Parliament (MED/3.52 Non-portable and transportable fire extinguishers)

This fire extinguisher holds Certificate of type approval from China Classification Society

These extinguishers comply with European testing standards: EN 1866-1 : 2007 and EN 1866-3 : 2013



## TECHNICAL DATA

|  |                      |         |
|--|----------------------|---------|
| Capacity   | 9 kg                 | 20 kg   |
| Bracket  | No                   |         |
| Minimum Discharge Range  | 4 m                  | 3 m     |
| Test Pressure  | 300 bar              |         |
| Working Pressure   | 169.3 bar            | 176 bar |
| Weight Empty   | 40 kg                | 60 kg   |
| Weight Full  | 49 kg                | 80 kg   |
| Dimensions in Stored Position with Handle, Length x Width x Height | 1100 x 500 x 1200 mm |         |
| Hose Length  | 5 m                  |         |
| Wheel Diameter   | 300 mm               |         |
| Fire Rating  | 113B                 | 183B    |
| Operating Temperature Range  | -30 °C to +60 °C     |         |

# WHEELED FOAM CARTRIDGE

- High fire ratings
- High firefighting capability
- Safer firefighting
- High quality material and finish

## Benefits

- Specially blended high performance AFFF additive enables the user to fight fires quickly and efficiently
- High firefighting capabilities meaning quicker and safer firefighting
- Long and non-kinking hose with opening tap gives direct and better control to fight fires
- The higher than normal industry standard burst pressure for the cylinder and hose safeguard the user when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin

## Approvals

These fire extinguishers hold Bureau Veritas EC type examination certificate as per Module B of directive 2014/90/EU of the European Parliament (MED/3.52 Non-portable and transportable fire extinguishers)

These fire extinguishers hold Certificate of type approval from China Classification Society

These extinguishers comply with European standards: EN 1866-1 : 2007 and EN 1866-2 : 2014



## Ordering Information

| Product Number | Product Name                                  |
|----------------|---|
| 778998         | Wheeled Foam Fire Extinguisher 45 L SE45A2*   |
| 778996         | Wheeled Foam Fire Extinguisher 135 L SE135A2* |

## Accessories

| Product Number | Product Name                           |
|----------------|--|
| 668210         | AFFF Foam Charge for 45 L              |
| 02300021       | AFFF Foam Charge for 135 L             |
| 668194         | CO <sub>2</sub> Cylinder 450 g (45 L)  |
| 735046         | CO <sub>2</sub> Cylinder 900 g (135 L) |
| 667683         | Safety Pin 50 kg 10 Pack               |
| 667600         | Wire and Seal 90 Pack                  |
| 667766         | O-Ring for Top E45A2/P50/P50P 5 Pack   |

## TECHNICAL DATA

|  |                      |          |
|--|----------------------|----------|
| Capacity   | 45 L                 | 135 L    |
| Minimum Discharge Range  | 6 m                  | 6 m      |
| Test Pressure  | 26 bar               | 26 bar   |
| Working Pressure   | 16.4 bar             | 18.4 bar |
| Weight Empty   | 36 kg                | 96 kg    |
| Weight Full  | 81 kg                | 231 kg   |
| Dimensions in Stored Position with Handle, Length x Width x Height | 1100 x 500 x 1200 mm |          |
| Hose Length  | 5 m                  | 5 m      |
| Wheel Diameter   | 300 mm               | 400 mm   |
| Fire Rating  | A-IVB                | A-IVB    |
| Operating Temperature Range  | +5 °C to +60 °C      |          |



# WHEELED ABC POWDER STORED PRESSURE

- High fire ratings
- Safe firefighting
- High quality material and finish

## Benefits

- Our fire extinguishers boast high levels of mono ammonium phosphate giving quicker firefighting capability even on electrical fires up to 35 kV
- High firefighting capabilities meaning quicker and safer firefighting
- Our higher than normal, industry standard burst pressure for the cylinder and hose safeguard the user when firefighting
- Long life and low maintenance costs are assured as our extinguishers are manufactured from 2 mm thick steel, shot blasted, polyester coated and with an anti-rust safety pin



## Approvals

This fire extinguisher hold Apragaz EC type examination in accordance with Module B of Directive 2014/90/EU on marine equipment (MED/3.2 Wheeled stored pressure fire extinguishers)

These extinguishers comply with European testing standards: EN1866-1



## Ordering Information

| Product Number | Product Name                         |
|----------------|--------------------------------------|
| 755348         | Powder Ext 25kg Pp25p Wheeled PP25P* |

## TECHNICAL DATA

|                             |                  |
|-----------------------------|------------------|
| Capacity                    | 25 kg            |
| Bracket                     | No               |
| Minimum Discharge Range     | 6 m              |
| Test Pressure               | 27 bar           |
| Working Pressure            | 15 bar           |
| Weight Empty                | 17 kg            |
| Weight Full                 | 42.3 kg          |
| Height                      | 910 mm           |
| Width with Wheels:          | 380 mm           |
| Fire Rating                 | A - IB - C       |
| Operating Temperature Range | -20 °C to +60 °C |

# FIRE EXTINGUISHER CABINETS

## FIRE CABINETS

- IP54 - IP56 rated
- Lloyd's Type Test approval, making the ideal for use in demanding conditions
- Cabinets are available in a range of off-the-shelf sizes
- Storage of single or double 9 kg and 12 kg fire extinguishers and single or double 5 kg CO2 extinguishers
- Manufactured in GRP or ABS (SOS101)

### Approvals

Lloyd's Type Test Approval (not including SOS101)



### Ordering Information

| Product Number | Product Name                     |
|----------------|----------------------------------|
| 1097323        | JB01 Fire Extinguisher Cabinet   |
| FFCABJB82      | JB82 Fire Extinguisher Cabinet   |
| FFCABJB83      | JB83 Fire Extinguisher Cabinet   |
| FFCABJB65      | JB65 Fire Extinguisher Cabinet   |
| FFCABSOS101    | SOS101 Fire Extinguisher Cabinet |

# FIRE HOSES

## MERTEX FIRE HOSES

- Rugged inner and external lining
- Light-weight and extreme low temperature

### Benefits

- Our hose is manufactured as circular woven with inner thermoplastic polyurethane lining safeguarding it against both internal and external wear
- Light-weight design enables carrying them with ease on board a vessel when fighting fires
- Our hoses are fitted with Storz or Norwegian couplings providing a ready to use hose compatible with the vessel's fire equipment. Please note some hoses can be supplied without couplings
- Our hoses use materials that safeguards the hoses against external damage from UV radiation and oil or commonly used chemicals



### Approvals

SOLAS 74 Convention as amended, Regulation II-2/10,X/3, IMO Res. MSC.36(63)-(1994 HSC Code) as amended, 7, IMO Res. MSC.97(73)-(2000 HSC Code) as amended, 7, EN 14540:2014



### MERTEX FIRE HOSE 2.5 INCH PER M WITHOUT COUPLING

#### TECHNICAL DATA

|                             |                    |
|-----------------------------|--------------------|
| Length                      | Per M              |
| Inner Diameter              | 2 1/2 inch/64.5 mm |
| Weight                      | 0.35 kg/0.23 lbs   |
| Max Working Pressure        | 15 bar             |
| Minimum Burst Pressure      | 50 bar             |
| Operating Temperature Range | -50 °C to +75 °C   |

### MERTEX FIRE HOSE 2 INCH PER M WITHOUT COUPLING

#### TECHNICAL DATA

|                             |                          |
|-----------------------------|--------------------------|
| Length                      | Per M                    |
| Inner Diameter              | 2 inch/51.5 mm           |
| Weight                      | 0.27 kg/m or 0.18 lbs/ft |
| Max Working Pressure        | 15 bar                   |
| Minimum Burst Pressure      | 50 bar                   |
| Operating Temperature Range | -50 °C to +75 °C         |

### Ordering Information

| Product Number | Product Name   |
|----------------|--|
| 589564         | Mertex Fire Hose 2.5 inch per m without Coupling       |
| <b>589572</b>  | <b>Mertex Fire Hose 2 inch per m without Coupling*</b> |
| 589580         | Mertex Fire Hose 1.5 inch, Per m                       |

### Accessories

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 605212         | Portable Binding Machine            |
| 605220         | Clamping Device for Binding Machine |
| 758888         | Binding Wire 1.6 mm (1 kg Roll)     |
| 605279         | Cabinet for 20 m Fire Hose          |

### MERTEX FIRE HOSE 1.5 INCH PER M

#### TECHNICAL DATA

|                             |                         |
|-----------------------------|-------------------------|
| Length                      | Per M                   |
| Inner Diameter              | 1.5 inch/51.5 mm        |
| Weight                      | 4.05 kg/m or 2.7 lbs/ft |
| Max Working Pressure        | 15 bar                  |
| Minimum Burst Pressure      | 50 bar                  |
| Operating Temperature Range | -50 °C to +75 °C        |

#### Coupling

|                   |          |
|-------------------|----------|
| Nominal Size      | 52=C     |
| Lug Spacing       | 66 mm    |
| Weight            | 0.970 kg |
| Length Tail Piece | 75 mm    |
| Inside Diameter   | 45 mm    |

# FIRE HOSE CABINETS

- IP56 rated
- Lloyd's Type Test approval, making the ideal for use in demanding conditions (not inclusive of SOS300)
- Cabinets are available in a range of off-the-shelf sizes
- Accommodates various lengths of fire hose and branch pipes
- Versatile fire equipment cabinets enabling the storage of fire hoses alongside other firefighting equipment



## Approvals

Lloyd's Type Test Approval (not including SOS101)



## Ordering Information

| Product Number | Product Name             |
|----------------|--------------------------|
| FFCABSOS300    | SOS300 Fire Hose Cabinet |
| FFCABJB02H     | JB02H Fire Hose Cabinet  |
| FFCABJB14H     | JB14H Fire Hose Cabinet  |

# PORTABLE BINDING MACHINE

- Strong hand crank
- Cast construction
- Hand crank allows you to optimally adapt the clamping arrangement to the coupling size.
- The clamping device can be easily fixed to any standard vice in a vessel's workshop with a jaw of a least 75 mm



## TECHNICAL DATA

| Coupling size | Number of coils (Minimum) |
|---------------|---------------------------|
| 110 mm        | 10                        |
| 75 mm         | 4                         |
| 52 mm         | 3                         |
| 25 mm         | 3                         |

## Accessories

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 605220         | Clamping Device for Binding Machine |

## Spare

| Product Number | Product Name        |
|----------------|---------------------|
| 758888         | Binding Wire 1.6 mm |

## Ordering Information

| Product Number | Product Name             |
|----------------|--------------------------|
| 605212         | Portable Binding Machine |

# FIRE BLANKET

- Manufactured by two layers of woven glass fibre fabric with inner layer of fire retardant film
- Handles that are external from the inner casing are made of blue fire-retardant cotton webbing
- Lightweight and compact size meaning ease of storage on board your vessel

## TECHNICAL DATA

|                                  |  |
|----------------------------------|--|
| <b>Blanket material</b>          | JT 510 3-ply - two layers of woven glass fibre fabric with inner layer of fire-retardant film  |
| <b>Handle material</b>           | Flame retardant cotton webbing - Blue  |
| <b>Weight</b>                    | 530 g/m <sup>2</sup> (nominal)   |
| <b>Sizes available (mm)</b>      | 1.1 x 1.1 m / 204 x 178 x 50 mm<br>1.2 x 1.2 m / 254 x 178 x 50 mm<br>1.8 x 1.1 m / 337 x 184 x 55 mm<br>1.8 x 1.2 m / 337 x 184 x 55 mm   |
| <b>Holders Available Colours</b> | Jacpack Premium Range - Red or White<br>Flexible pack – Red only   |
| <b>Certification</b>             | BSI Certified to BS EN1869: 1997<br>Kitemark Licence No KM 25047<br>L.P.C.B Tested<br>BAFE Approved  |
| <b>Guarantee</b>                 | 5 years (blanket)<br>- Recommended replacement after 5 Years   |
| <b>Performance</b>               | Cooking oil fire 3 L (see BS EN1869: 1997)   |
| <b>Other Information</b>         | Discard if any evidence of damage<br>Discard blanket after use<br>Blanket should be withdrawn from holder every 12 months, unfolded and checked for the following: -<br>- Damage or discolouration of the surface<br>- Handle fixing |

## APPROVALS

BSI Certified to BS EN1869: 1997



## Ordering Information

### PRODUCTS

| Product Number       | Product Name                     |
|----------------------|----------------------------------|
| FFBLKT1.1X1.1        | Fire Blanket 1.1M x 1.1M         |
| FFBLKT1.2X1.2        | Fire Blanket 1.2M x 1.2M         |
| FFBLKT1.8X1.1        | Fire Blanket 1.8M x 1.1M         |
| <b>FFBLKT1.8X1.2</b> | <b>Fire Blanket 1.8M x 1.2M*</b> |

# FITTINGS, COUPLINGS & NOZZLES

## STORZ C & 65 COUPLINGS

- Symmetrical quick connection
- Brass alloy fitting

### Benefits

- Easy to connect quickly to the firefighting systems
- Brass alloy makes this coupling corrosion proof and maintenance-free



### Ordering Information

| Product Number | Product Name                                      |
|----------------|---|
| 233858         | Storz C Coupling including 2 inch Hose Socket*    |
| 605121         | Storz C Coupling including 1.5 inch Male Thread   |
| 233965         | Storz C Coupling including 2 inch Male Thread*    |
| 607965         | Storz C Coupling including 2.5 inch Female Thread |
| 233924         | Storz C Coupling including 2 inch Female Thread*  |
| 233890         | Storz C Coupling including 1.5 inch Hose Socket*  |

### Ordering Information

| Product Number | Product Name                                  |
|----------------|---|
| 523431         | Storz 65 Coupling with 2 inch Hose Socket     |
| 523456         | Storz 65 Coupling with 2 inch Female Thread   |
| 595777         | Storz 65 Coupling with 2 inch Male Thread     |
| 523449         | Storz 65 Coupling with 2.5 inch Hose Socket   |
| 605311         | Storz 65 Coupling with 2.5 inch Female Thread |

### Accessories

| Product Number | Product Name                               |
|----------------|--|
| 527705         | Storz Coupling Spanner F, B and C Type     |
| 523357         | Gasket for Storz C Coupling Lug Size 66 mm |
| L29627         | Storz C Coupling with 1 1/4" Hose Socket   |
| 527663         | Storz C Blanking Cap*                      |

### Accessories

| Product Number | Product Name                               |
|----------------|--|
| 527705         | Storz Coupling Spanner F, B and C Type     |
| 523357         | Gasket for Storz C Coupling Lug Size 66 mm |

### TECHNICAL DATA

| Storz C             | 2 inch Hose Socket Socket | 1 1/2 inch Male Thread | 2 inch Male Thread | 2 1/2 inch Female Thread | 2 inch Female Thread | 1 1/2 inch Hose Socket |
|---------------------|---------------------------|------------------------|--------------------|--------------------------|----------------------|------------------------|
| Nominal Size        | 2 inch                    | 1 1/2 inch             | 2 inch             | 2 1/2 inch               | 2 inch               | 1 1/2 inch             |
| Lug Spacing         | 66 mm                     | 66 mm                  | 66 mm              | 66 mm                    | 66 mm                | 66 mm                  |
| Hose Diameter       | 52 mm                     | N/A                    | N/A                | N/A                      | N/A                  | 38 mm                  |
| Inside Diameter     | 45 mm                     | 38 mm                  | 45 mm              | 44 mm                    | 44 mm                | 32 mm                  |
| Length Tail Piece   | 75 mm                     | N/A                    | N/A                | N/A                      | N/A                  | 90 mm                  |
| Face to Face Length | N/A                       | 32 mm                  | 32 mm              | 40 mm                    | 37 mm                | N/A                    |
| Thread              | N/A                       | G 1 1/2 A              | G 2 A              | G 2                      | G 2 1/2              | N/A                    |
| Weight              | 0.97 kg                   | 0.6 kg                 | 0.56 kg            | 0.795 kg                 | 0.80 kg              | 1.135 kg               |

### TECHNICAL DATA

| Storz 65            | 2 inch Hose Socket | 2 inch Female Thread | 2 inch Male Thread | 2 1/2 inch Hose Socket | 2 1/2 inch Female Thread |
|---------------------|--------------------|----------------------|--------------------|------------------------|--------------------------|
| Nominal Size        | 2 inch             | 2 inch               | 2 inch             | 2 1/2 inch             | 2 1/2 inch               |
| Lug Spacing         | 81 mm              | 66 mm                | 66 mm              | 66 mm                  | 66 mm                    |
| Hose Diameter       | 52 mm              | N/A                  | N/A                | N/A                    | N/A                      |
| Inside Diameter     | 45 mm              | 38 mm                | 45 mm              | 44 mm                  | 44 mm                    |
| Length Tail Piece   | 75 mm              | N/A                  | N/A                | N/A                    | N/A                      |
| Face to Face Length | N/A                | 32 mm                | 32 mm              | 40 mm                  | 37 mm                    |
| Thread              | N/A                | G 1 1/2 A            | G 2 A              | G 2                    | G 2 1/2                  |
| Weight              | 0.97 kg            | 0.6 kg               | 0.56 kg            | 0.795 kg               | 0.80 kg                  |

# SPRAY/JET NOZZLE

- Low pressure loss
- Light weight
- High impact strength

## Benefits

- Our nozzles are designed with smooth inner surfaces minimising the water pressure loss and enhancing the cooling effect
- Light weight construction allows the user to carry with ease on board a vessel when fighting fires
- Use of tough materials makes the nozzle resistant to impact and rough use helping to ensure a maintenance free long life nozzle



## Approvals

The Spray/Jet Nozzles are MED approved 2014/90/e3 MEDB 00001W2

Tests carried out to EN-15182 -1, En-15182-2 6 EN-15182-3.



## Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 708271         | Spray/Jet Nozzle 12 mm HS-12 349 x 98 mm* |
| 708289         | Spray/Jet Nozzle 16 mm HS-16 347 x 98 mm* |
| 708297         | Spray/Jet Nozzle 20 mm HS-12 348 x 98 mm* |

## TECHNICAL DATA

|                                | Jet Mode at 2 bar pressure | Jet Mode at 6 bar pressure | Jet Mode at 8 bar pressure | Spray Mode at 2 bar pressure (120°) | Spray Mode at 6 bar pressure (120°) | Spray Mode at 8 bar pressure (120°) |
|--------------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>12 mm HS-12 349 x 98 mm</b> |                            |                            |                            |                                     |                                     |                                     |
| <b>Flow Rate</b>               | 130 L/min                  | 230 L/min                  | 280 L/min                  | 265 L/min                           | 460 L/min                           | 575 L/min                           |
| <b>Throw Length</b>            | 17 m                       | 28 m                       | 32 m                       | 4.5 m                               | 4.5 m                               | 15 m                                |
| <b>16 mm HS-16 347 x 98 mm</b> |                            |                            |                            |                                     |                                     |                                     |
| <b>Flow Rate</b>               | 170 L/min                  | 330 L/min                  | 410 L/min                  | 275 L/min                           | 470 L/min                           | 620 L/min                           |
| <b>Throw Length</b>            | 18 m                       | 30 m                       | 34 m                       | 4.5 m                               | 4.5 m                               | 16 m                                |
| <b>20 mm HS-12 348 x 98 mm</b> |                            |                            |                            |                                     |                                     |                                     |
| <b>Flow Rate</b>               | 220 L/min                  | 380 L/min                  | 510 L/min                  | 275 L/min                           | 470 L/min                           | 670 L/min                           |
| <b>Throw Length</b>            | 21 m                       | 32 m                       | 36 m                       | 4.5 m                               | 4.5 m                               | 17 m                                |



# TURBO NOZZLE 2000

- High extinguishing effect
- Safe to use on electrical equipment fires
- Unique gun shape handle design

## Benefits

- Unique fast rotating turbo wheel atomizes the water droplets giving optimal droplet size and distribution that gives faster cooling effect when fighting fires
- The users safety is ensured when fighting electrical fires up to 30 kV as in full jet mode the max volume of water delivered prevents flash over
- The handle design gives the user a better control for operating the nozzle making it easier to fight fires in a vessel's workshop with a jaw of a least 75 mm



## Ordering Information

| Product Number | Product Name                               |
|----------------|--|
| 737759         | Turbo Nozzle 2000 with 2 Inch Male Thread* |

## Directions For Use

The pre-selected flow rate can be used by turning one of the knurled adjustment collars: 60 – 130 - 235 L/min at 6 bar. The position 130 L/min is marked by an additional button (pointer) and is located on top; at the small flow rate to the right (3 o'clock position); at the great flow rate to the left (9 o'clock position). By turning the red head of the nozzle/jet form sleeve the typo of flow can be switched from full to spray jet. The pointer on the form sleeve is at an angle of approximately 45 degrees from the tog when it is set to spray jet. By turning the jet form sleeve anti-clockwise it is switched to the maximum spray jet of 120 degrees. By turning the jet form sleeve clockwise the jet becomes a full jet. Thus the pointer is in position 11 o'clock resp. 2 o'clock.

## Approvals

The Spray/Jet Nozzles are MED approved 2014/90/e3  
Tests carried out to EN-15182 -1, EN-15182-2 6  
EN-15182-3



## TECHNICAL DATA

|                             |                      |
|-----------------------------|----------------------|
| Flow Rate at 6 bar          | 60-130-235 L/min     |
| Throw Distance              | 20-27-31 M           |
| Spray Angle                 | 0 - 120 Degrees      |
| Inlet Connection Thread     | 2 Inch Male Thread   |
| Electrical Fire Application | Minimum Distance 5 M |





# ACCESSORIES & SPARES

## MARINE BRACKETS FOR PORTABLE FIRE EXTINGUISHERS

- Robust design
- Adjustable strap

### Benefits

- Our marine brackets are manufactured with quality steel and coated with primer offering a long service life
- Adjustable straps give the flexibility to adjust and secure the extinguisher properly



### Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 668111         | 5 kg Fire Extinguisher Bracket with Strap                         |
| 671909         | 6 kg Fire Extinguisher Bracket with Strap                         |
| 739516         | 9 kg Fire Extinguisher Bracket with Strap                         |
| 743112         | 12 kg Fire Extinguisher Bracket with Strap                        |
| 711416         | Universal Fire Extinguisher Bracket with Strap 6 kg, 9 kg, 12 kg* |
| 669655         | Fire Extinguisher Bracket Strap 640 mm Pack of 5*                 |

## CO<sub>2</sub> FIRE EXTINGUISHER CARTRIDGES

- Easy to replace
- High quality material and finish

### Benefits

- You can easily replace them by disconnecting the connections on the cylinder
- Coated with zinc primer our cartridges have long shelf life and require minimal space for storage on your vessel in a vessel's workshop with a jaw of a least 75 mm

### Accessories

| Product Number | Product Name                                  |
|----------------|---|
| 766977         | O Ring for P9FM.M 5 Pack                      |
| 667824         | Cylinder valve Connection Seal 25 Pack        |
| 756411         | Valve Seal for PP6P/PP9P/PP12P/ PP25P 10 Pack |
| 667584         | Valve Seal for Fire Extinguisher 25 Pack      |
| 03123461       | O-Ring 10 Pack                                |
| 667766         | O-Ring for Top E45A2/P50/P50P 5 Pack          |
| 667592         | Safety Pin Yellow 10 Pack                     |
| 667600         | Wire and Seal 90 Pack                         |
| 667899         | Safety Pin with Ring 25 Kg 10 Pack            |
| 667683         | Safety Pin 50 kg 10 Pack                      |



### Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 668178         | Extinguisher Cartridge 60 g for 9 L Water/ 9 L Foam |
| 668194         | Extinguisher Cartridge 450 g for 45 L Foam          |
| 668202         | Extinguisher Cartridge 2 kg for 135 L Foam          |
| 668236         | Extinguisher Cartridge 120 g for 6 kg Powder        |
| 668244         | Extinguisher Cartridge 160 g for 6 kg Powder        |
| 668251         | Extinguisher Cartridge 180 g for 12 kg Powder       |
| 668327         | Extinguisher Cartridge 450 g for 25 kg Powder       |
| 735046         | CO2 Cylinder 900 g for SP50P/SE135A2 Head Up        |

# FIRE EXTINGUISHER FOAM CHARGES

- High performance fluoro additive
- Easy to dose and store

## Benefits

- High performance fluoro additive offers higher fire ratings, strong wetting power, impregnable film that extinguishes fire quickly
- The foam premix comes in small plastic bottles and is easy to store and replace on board your vessel



## Ordering Information

| Product Number | Product Name  |
|----------------|---|
| 736579         | Extinguisher Foam Charge 90 ml for 9 L Foam             |
| 668228         | Extinguisher Foam Charge 3 x 0.9 L for 135 L Foam       |
| 668210         | Extinguisher Foam Charge 0.9 L for 45 L Foam            |
| 02301261       | Foam Charge 540 ml for Polar Solvent                    |
| 02302161       | Premix RC50 Wet Chemical for 6 kg Fat Fire Extinguisher |

# FIRE EXTINGUISHER ABC POWDER REFILLS

- High fire rating
- Easy to store

## Benefits

- Our fire extinguishers boast high levels of mono ammonium phosphate giving you quicker firefighting capability even on electrical fires up to 35 kV
- Our powder charges come in vacuum sealed packages offering long shelf life and can be easily stored on board your vessel



## Ordering Information

| Product Number | Product Name            |
|----------------|-------------------------|
| 668285         | ABC Powder Refill 6 kg  |
| 668293         | ABC Powder Refill 9 kg  |
| 668319         | ABC Powder Refill 12 kg |
| 674317         | ABC Powder Refill 25 kg |

## TECHNICAL DATA

|                  |                             |
|------------------|-----------------------------|
| Size             | 6, 9, 12 and 25 kg          |
| Colour           | Light blue                  |
| Apparent Density | 850 - 950 kg/m <sup>3</sup> |
| Water content    | < 0.25%                     |

# STORZ COUPLING SPANNER

Survitec's universal coupling spanner for Storz C, 65 and B connection - the design and composition of this spanner makes it easy and light weight to use.

- Suitable for all Storz connections



## Ordering Information

| Product Number | Product Name                               |
|----------------|--|
| 527705         | Storz Coupling Spanner for B,C and 65 Type |

# GASKET FOR STORZ C COUPLINGS

- Symmetrical quick connection
- No female and male part
- Aluminium alloys fitting

## Benefits

- Easy to connect quickly to the hose ends
- No male and female threads
- Can be easily fitted to fire hoses including our range of Guardman & Mertex hoses
- Aluminium alloy makes this socket corrosion proof and maintenance-free



## Ordering Information

| Product Number | Product Name                               |
|----------------|--|
| 523357         | Gasket for Storz C Coupling lug size 66 mm |

## TECHNICAL DATA

|                     |         |
|---------------------|---------|
| Nominal Size        | 65      |
| Lug Spacing         | 66 mm   |
| Hose Inner Diameter | 52 mm   |
| Length Tail Piece   | 90 mm   |
| Inside Diameter     | 45 mm   |
| Weight              | 1.38 kg |

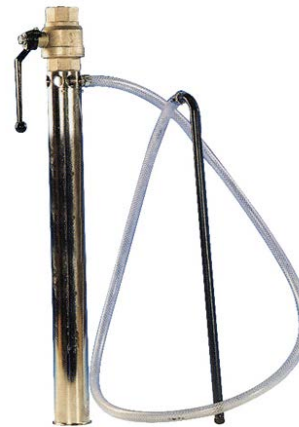
# FOAM APPLICATORS

- Stainless steel and brass body
- Light weight
- Induction capacity up to 6 %
- Large area coverage

## Benefits

- Materials give a long-lasting life with the added benefit of being lightweight
- 3 and 6 bar options
- Design ensures your challenge is met quickly and efficiently with wide coverage range

Proportioning will work with most major foam mixes  
Suitable for both Newtonian and non-Newtonian pseudoplastic and thixotropic Foams



## TECHNICAL DATA

|   | Capacity              | Coupling Size     | Proportioning | Inductor Length |
|---|-----------------------|-------------------|---------------|-----------------|
| Foam Applicator 200 Litres per Minute at 3 Bar    | 200 Litres per Minute | 2 inch BSP Female | N/A           | N/A             |
| Foam Applicator 400 Litres per Minute at 3 Bar    | 400 Litres per Minute | 2 inch BSP Female | N/A           | N/A             |
| Foam Applicator 200 Litres per Minute at 6 Bar    | 200 Litres per Minute | 2 inch BSP Female | N/A           | N/A             |
| Foam Applicator 400 Litres per Minute at 6 Bar    | 400 Litres per Minute | 2 inch BSP Female | N/A           | N/A             |
| Foam Applicator 3% 200 Litres per Minute at 6 Bar | 200 Litres per Minute | 2 inch BSP Female | 3%            | 1.5 M           |
| Foam Applicator 3% 400 Litres per Minute at 6 Bar | 400 Litres per Minute | 2 inch BSP Female | 3%            | 1.5 M           |
| Foam Applicator 6% 200 Litres per Minute at 6 Bar | 200 Litres per Minute | 2 inch BSP Female | 6%            | 1.5 M           |
| Foam Applicator 6% 400 Litres per Minute at 6 Bar | 400 Litres per Minute | 2 inch BSP Female | 6%            | 1.5 M           |

## Ordering Information

| Product Number | Product Name                             |
|----------------|--|
| 740605         | Foam Applicator 200 L/min at 3 bar       |
| 740621         | Foam Applicator 400 L/min at 3 bar       |
| 740613         | Foam Applicator 200 L/min at 6 bar       |
| 740639         | Foam Applicator 400 L/min at 6 bar       |
| 740647         | Foam Applicator-S 3 % 200 L/min at 6 bar |
| 740662         | Foam Applicator-S 3 % 400 L/min at 6 bar |
| 740654         | Foam Applicator-S 6 % 200 L/min at 6 bar |
| 740670         | Foam Applicator-S 6 % 400 L/min at 6 bar |

## Accessories

| Product Number | Product Name                              |
|----------------|---|
| 1097086        | Foam Station Box                          |
| 233965         | Storz C couplings 2" Male Connection      |
| 595777         | Storz 65mm Male Connection                |
| 233940         | NOR-1 Coupling 2" Male Connection         |
| 233957         | NOR-2 Coupling 2" Male Connection         |
| 572941         | Instantaneous Coupling 2" Male Connection |

# FOAM CONCENTRATES

## UNIVEX 3-3% M AR

- Class B Fires
- 10 Year shelf life
- For fires in Polar solvents or Hydrocarbons or a mixture of both

### Benefits

- Our Univex 3-3 M AR meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use on both your Oil and Chemical Tankers' foam systems giving you fleet standardisation
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                                  |
|----------------|---|
| 1097061        | Foam Concentrate UNIVEX 3-3M 20L 3-3% FP-AR*  |
| 1097062        | Foam Concentrate UNIVEX 3-3M 200L 3-3% FP-AR* |

### TECHNICAL DATA

|                                    |                                    |
|------------------------------------|------------------------------------|
| Type                               | Fluoroprotein<br>Alcohol Resistant |
| Usage                              | Monitors and Portable Applicators  |
| Pump                               | Centrifugal                        |
| Density kg/L @ 20 °C               | 1.14 ± 0.02                        |
| Viscosity 20 °C mm <sup>2</sup> /s | 10.0 ± 2.0                         |
| pH @ 20 °C                         | 6.0 - 8.0                          |
| Freezing Point                     | -18 °C                             |
| Pour Point                         | ≤ -15 °C                           |
| Storage Temperature                | -13 °C to +60 °C                   |
| Sediments, Max (%Vol)              | < 0.25                             |
| Expansion                          | Low                                |
| Expansion Ratio                    | 7 times                            |
| Drainage Time 25 %                 | 5:00 min                           |

### Approvals

EN 1568:2008 – Parts 1,3,4,  
IMO MSC.1/ Circ. 1312  
MED Modules B and D  
ICAO – Level B



### FOAMS ON REQUEST

| Products                               |      | Product          | Approvals       | Can     | Drum    | Foam Top-up                               | Replacement Foam             | Can     | Drum    |
|--|------|------------------|-----------------|---------|---------|---|------------------------------|---------|---------|
| FluoroProtein AlcoholResistant (FP-AR) | 3-3% | UNIVEX 3-3 SUPER | MED/DNV/NK/RMRS | 764987  | 764985  | UNIVEX 3-3M AR                            | UNIVEX 3-3 M AR              | 1097061 | 1097062 |
|  |      | SF-FP/AR 3-3%    | CCS             | 1089178 | 1057376 | Not Available                             | UNIVEX 3-3 M AR              |         |         |
| FluoroProtein AlcoholResistant (FP-AR) | 3-6% | UNIVEX 3-6 SUPER | MED/DNV/RMRS    | 764988  | 764986  | use prod. itself, but will be superseded. | UNIVEX 3-3 M AR <sup>1</sup> |         |         |

1) required adjustment of proportioner, contact Survitec for advice

### SUPERSEDED FOAMS

| Products                               |      | Product              | Approvals     | Can    | Drum   | Foam Top-up      | Replacement Foam | Can     | Drum    |
|--|------|----------------------|---------------|--------|--------|------------------|------------------|---------|---------|
| FluoroProtein AlcoholResistant (FP-AR) | 3-3% | UNIVEX 3-3 UNIVERSAL | Not Available | 677229 | 677195 | UNIVEX 3-3 SUPER | UNIVEX 3-3 M AR  | 1097061 | 1097062 |
|  | 3-6% | UNIVEX 3-6 UNIVERSAL | Not Available | 574715 | 556126 | UNIVEX 3-6 SUPER | UNIVEX 3-6 SUPER | 764988  | 764986  |

# FOAM CONCENTRATES

## APIROL FX 3%

- Class B Fires
- 10 Year shelf life
- For fires in Hydrocarbons

### Benefits

- Our Apirol FX3 meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use on your Oil Tankers' foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, latest IMO regulations, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 1097058        | Foam Concentrate APIROL FX3 C 3% 20L FP*  |
| 1097059        | Foam Concentrate APIROL FX3 C 3% 200L FP* |

### TECHNICAL DATA

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Type                               | Fluoroprotein                     |
| Usage                              | Monitors and Portable Applicators |
| Pump                               | Centrifugal                       |
| Density kg/L @ 20°C                | 1.12 ± 0.02                       |
| Viscosity 20 °C mm <sup>2</sup> /s | 6.0 ± 4.0                         |
| pH @ 20 °C                         | 6.0 - 8.0                         |
| Freezing Point                     | -15 °C                            |
| Pour Point                         | ≤ -12 °C                          |
| Storage Temperature                | -10 °C to + 60 °C                 |
| Sediments, Max (%Vol)              | < 0.1                             |
| Expansion                          | Low                               |
| Expansion Ratio                    | 7 times                           |
| Drainage Time 25 %                 | 5:00 min                          |

### Approvals

UL Standard 162, Foam Liquid Concentrates  
EN 1568:2008 – Parts 1, 3  
IMO MSC.1/Circ.1312  
MED Modules B and D



### FOAMS ON REQUEST

| Products           |    | Product                        | Approvals       | Can     | Drum    | Foam Top-up        | Replacement Foam | Can     | Drum    |
|--------------------|----|--------------------------------|-----------------|---------|---------|--------------------|------------------|---------|---------|
| FluoroProtein (FP) | 3% | FLUOR-FOAMOUSSE 3% F-15 PD5313 | MED/BV/LR/CCS   | 1095119 | 1095120 | use product itself | APIROL FX3       | 1097058 | 1097059 |
|                    |    | UNIROL 3                       | MED/DNV/NK/RMRS | 592204  | 556084  | APIROL FX3         |                  |         |         |
|                    |    | SF-P3%                         | CCS             | 1089179 | 1057388 | Not Available      |                  |         |         |

### SUPERSEDED FOAMS

| Products           |    | Product   | Approvals     | Can    | Drum          | Foam Top-up   | Replacement Foam        | Can     | Drum    |
|--------------------|----|-----------|---------------|--------|---------------|---------------|-------------------------|---------|---------|
| Protein (P)        | 3% | UNIMIN P3 | Not Available | 576454 | 556050        | Not Available | APIROL FX3              | 1097058 | 1097059 |
|                    | 6% | UNIMIN P6 | Not Available | 574723 | Not Available | Not Available | APIROL FX3 <sup>1</sup> |         |         |
| FluoroProtein (FP) | 6% | UNIROL 6  | Not Available | 592212 | 556076        | Not Available | APIROL FX3 <sup>1</sup> |         |         |

1) required adjustment of proportioner, contact Survitec for advice

# FOAM CONCENTRATES

## AFFF 1% F-25 PD4142

- Class B fires
- 10 Year shelf life
- For fires in Hydrocarbons

### Benefits

- Our AFFF 1% F-25 meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use for your Oil Tankers' and helidecks' foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 777696         | Foam Concentrate AFFF 1% F-25 L Can*      |
| 777695         | Foam Concentrate AFFF 1% F-25 200 L Drum* |

### TECHNICAL DATA

|   |                                   |
|---|-----------------------------------|
| Type  | Synthetic AFFF                    |
| Usage   | Monitors and Portable Applicators |
| Pump  | Centrifugal                       |
| Density kg/L @ 20°C                           | 1.06 ± 0.02                       |
| Viscosity +20 °C (IMO 3.4) mm <sup>2</sup> /s | < 20                              |
| Viscosity 0°C (IMO 3.4) mm <sup>2</sup> /s    | < 50                              |
| Viscosity -15 °C (IMO 3.4) mm <sup>2</sup> /s | < 200                             |
| pH at 20 °C                                   | 6.5 - 8.5                         |
| Storage Temperature                           | -25 °C to + 50 °C                 |
| Freezing Point                                | -20 °C                            |
| Sediments, Max (% Vol)                        | None                              |
| Sediments By Aging, Max at -25 °C             | < 0.25                            |
| Sediments By Aging, Max at +60 °C             | < 0.25                            |
| Expansion                                     | Low                               |
| Expansion Ratio                               | 15 times                          |
| Drainage time 25%                             | 2-4 min                           |
| Drainage Time 50 %                            | 4-8 min                           |

### Approvals

Approved to IMO MSC.1/Circ.1312, MED/3.58.



### FOAMS ON REQUEST

| Products |    | Product            | Approvals    | Can    | Drum   | Foam Top-up                 | Replacement Foam | Can    | Drum   |
|----------|----|--------------------|--------------|--------|--------|-----------------------------|------------------|--------|--------|
| AFFF     | 1% | AFFF1% F-15 PD4141 | MED/DNV/ICAO | 777690 | 777690 | STHAMEX AFFF 1% F-25 PD4142 | AFFF 1% F        | 777696 | 777695 |

### SUPERSEDED FOAMS

| Products |    | Product  | Approvals     | Can    | Drum   | Foam Top-up   | Replacement Foam | Can    | Drum   |
|----------|----|----------|---------------|--------|--------|---------------|------------------|--------|--------|
| AFFF     | 1% | UNIRAL 1 | Not Available | 677211 | 677187 | Not Available | AFFF 1% F        | 777696 | 777695 |

# FOAM CONCENTRATES

## AFFF 1% F

- Class B fires
- 10 Year shelf life
- For fires in Polar solvents or Hydrocarbons or a mixture of both

### Benefits

- Our AFFF 1% F meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use for your Oil Tankers' and helidecks' foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                            |
|----------------|---|
| 1094771        | Foam Concentrate AFFF 1 % F 25 L Can*   |
| 1094772        | Foam Concentrate AFFF 1 % F 200 L Drum* |

### TECHNICAL DATA

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Type                                | Synthetic AFFF                    |
| Usage                               | Monitors and Portable Applicators |
| Pump                                | Centrifugal                       |
| Density kg/L @ 20 °C                | 1.035 ± 0.01                      |
| Viscosity +20 °C mm <sup>2</sup> /s | < 19.3                            |
| pH at 20 °C                         | 6.5 - 8.5                         |
| Storage Temperature                 | -14 °C to + 55 °C                 |
| Freezing Point                      | -14 °C                            |
| Sediments, Max (% Vol)              | <0.2                              |
| Expansion                           | Low                               |
| Expansion Ratio                     | 7-8 times                         |
| Drainage Time 25%                   | 2.5 min                           |
| Drainage Time 50 %                  | 5.5 min                           |

### Approvals

Approved to IMO MSC.1/Circ.1312, MED/3.58.



### FOAMS ON REQUEST

| Products |    | Product                    | Approvals    | Can     |         | Drum                        |           | Foam Top-up | Replacement Foam | Can |  | Drum |  |
|----------|----|----------------------------|--------------|---------|---------|-----------------------------|-----------|-------------|------------------|-----|--|------|--|
|          |    |                            |              |         |         |                             |           |             |                  |     |  |      |  |
| AFFF     | 1% | STHAMEX AFFF1% F-15 PD4141 | MED/DNV/ICAO | 777690  | 777689  | STHAMEX AFFF 1% F-25 PD4142 | AFFF 1% F | 1094771     | 1094772          |     |  |      |  |
|          |    | HYDRAL 1 M                 | MED/ICAO     | 1097070 | 1097071 | HYDRAL 1 M                  | AFFF 1% F |             |                  |     |  |      |  |

### SUPERSEDED FOAMS

| Products |    | Product  | Approvals         | Can    |        | Drum          |           | Foam Top-up | Replacement Foam | Can |  | Drum |  |
|----------|----|----------|-------------------|--------|--------|---------------|-----------|-------------|------------------|-----|--|------|--|
|          |    |          |                   |        |        |               |           |             |                  |     |  |      |  |
| AFFF     | 1% | UNIRAL 1 | no class approval | 677211 | 677187 | Not Available | AFFF 1% F | 1094771     | 1094772          |     |  |      |  |



# FOAM CONCENTRATES

## AFFF 3% F-25 PD4344

- Class B fires
- 10 Year shelf life
- For fires in Hydrocarbons

### Benefits

- Our AFFF 3% F-25 meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use for your Oil Tankers' and helidecks' foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                              |
|----------------|---|
| 777692         | Foam Concentrate AFFF F-25 3% 20 L Can*   |
| 777691         | Foam Concentrate AFFF F-25 3% 200 L Drum* |

### TECHNICAL DATA

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Type                                | Synthetic AFFF                    |
| Usage                               | Monitors and Portable Applicators |
| Pump                                | Centrifugal                       |
| Density Kg/L @ 20 °C                | 1,050 ± 0.02                      |
| Viscosity 20 °C mm <sup>2</sup> /s  | < 20                              |
| Viscosity -25 °C mm <sup>2</sup> /s | <200                              |
| pH at 20 °C                         | 6.5 - 8.5                         |
| Storage Temperature                 | -25 to +50 °C                     |
| Pour Temperature                    | -25 °C                            |
| Sediments, Maximum (% Vol)          | None                              |
| Expansion                           | Low                               |
| Expansion Ratio                     | 5-10 times                        |
| Drainage Time 25%/50 %              | 2-4 / 4-8 min                     |

### Approvals

Approved to IMO MSC.1/Circ.1312, MED/3.58.



### FOAMS ON REQUEST

| Products |    | Product                     | Approvals | Can    | Drum   | Foam Top-up         | Replacement Foam    | Can    | Drum   |
|----------|----|-----------------------------|-----------|--------|--------|---------------------|---------------------|--------|--------|
| AFFF     | 3% | STHAMEX AFFF 3% F-15 PD4341 | MED/ICAO  | 777686 | 777685 | AFFF 3% F-25 PD4344 | AFFF 3% F-25 PD4344 | 777692 | 777691 |

# FOAM CONCENTRATES

## AFFF 3% ULTRA LT

- Class B fires
- 10 Year shelf life
- For fires in Polar solvents or Hydrocarbons or a mixture of both

### Benefits

- Our AFFF 3% Ultra LT meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use your Oil Tankers' and Helidecks' foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                                  |
|----------------|---|
| 1094768        | Foam Concentrate AFFF 3% Ultra LT 25 L Can*   |
| 1094769        | Foam Concentrate AFFF 3% Ultra LT 200 L Drum* |

### TECHNICAL DATA

|                              |                                   |
|------------------------------|-----------------------------------|
| Type                         | Synthetic AFFF                    |
| Usage                        | Monitors and portable applicators |
| Pump                         | Centrifugal                       |
| Density Kg/L @ 20 °C         | 1.060 ± 0.01                      |
| Viscosity mm <sup>2</sup> /s | < 18.9                            |
| pH at 20 °C                  | 7.3 - 8.3                         |
| Freezing Point               | -25 °C                            |
| Storage Temperature          | -25 °C to + 55 °C                 |
| Sediments, Maximum (% Vol)   | < 0.2                             |
| Expansion                    | Low                               |
| Expansion Ratio              | 7-7.3 times                       |
| Drainage Time 25% / 50%      | 3 / 5.5 min                       |

### Approvals

IMO MSC.1/Circ.1312, MED/3.58  
LR, HOCNF and ICAO Level B



### FOAMS ON REQUEST

| Products |    | Product   | Approvals    | Can     | Drum    | Foam Top-up        | Replacement Foam | Can     | Drum    |
|----------|----|-----------|--------------|---------|---------|--------------------|------------------|---------|---------|
| AFFF     | 3% | HYDRAL 3M | MED/ICAO     | 1097064 | 1097065 | Use product itself | AFFF 3% Ultra LT | 1094768 | 1094769 |
|          |    | UNIRAL 3M | MED/DNV/ICAO | 778186  | 778185  | HYDRAL 3M          |                  |         |         |

### SUPERSEDED FOAMS

| Products |    | Product                    | Approvals         | Can    | Drum   | Foam Top-up   | Replacement Foam              | Can     | Drum    |
|----------|----|----------------------------|-------------------|--------|--------|---------------|-------------------------------|---------|---------|
| AFFF     | 3% | HYDRAL S3                  | no class approval | 772392 | 772384 | not available | AFFF 3% Ultra LT              | 1094768 | 1094769 |
|          |    | UNIRAL 3                   | no class approval | 592238 | 556118 | UNIRAL 3M     |                               |         |         |
|          | 6% | UNIRAL 6                   | no class approval | 592220 | 556100 | not available | AFFF 3% Ultra LT <sup>1</sup> |         |         |
|          |    | STHAMEX AFFF6% F-35 PD4642 | no class approval | 777694 | 777693 | not available | AFFF 3% Ultra LT <sup>1</sup> |         |         |

# FOAM CONCENTRATES

## AFFF 3-3% ARC 3x3

- Class B fires
- 10 Year shelf life
- For fires in polar solvents or hydrocarbons or a mixture of both

### Benefits

- Our AFFF 3-3% ARC 3x3 meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- Ideal for use for your Oil Tankers' and helidecks' foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



### Ordering Information

| Product Number | Product Name                                   |
|----------------|--|
| 1094774        | Foam Concentrate AFFF 3-3% ARC 3x3 25 L Can*   |
| 1094775        | Foam Concentrate AFFF 3-3% ARC 3x3 200 L Drum* |

### TECHNICAL DATA

|                                    |                               |
|------------------------------------|-------------------------------|
| Type                               | Synthetic AFFF                |
| Usage                              | Monitors and Foam Applicators |
| Pump                               | Positive Displacement         |
| Density Kg/L @ 20 °C               | 1.075 ± 0.01                  |
| Viscosity mm <sup>2</sup> /s 20 °C | <2300                         |
| Freezing Point                     | -15 °C                        |
| pH at 20 °C                        | 6.5 -8.5                      |
| Storage Temperature                | -15 °C to +55 °C              |
| Sediments, Maximum (% Vol)         | < 0.1                         |
| Expansion                          | Low                           |
| Expansion Ratio                    | 7.0-7.3 times                 |
| Drainage Time 25 % / 50 %          | 10 / 15min                    |

### Approvals

IMO MSC.1/Circ.1312, MED/3.58  
HOCNF



**HOCNF**

### FOAMS ON REQUEST

| Products |      | Product                      | Approvals         | Can     | Drum    | Foam Top-up                              | Replacement Foam     | Can     | Drum    |
|----------|------|------------------------------|-------------------|---------|---------|--|----------------------|---------|---------|
| AFFF     | 3-3% | UNIRAL AR 3-3M               | MED/DNV/RMRS/ICAO | 778009  | 778008  | HYDRAL AR 3-3C                           | ARC 3x3 <sup>1</sup> | 1094774 | 1094775 |
|          |      | MOUSSOL APS 3-3% F-15 PD3341 | MED/BV/ICAO       | 777688  | 777927  | Use product itself                       |                      |         |         |
|          |      | HYDRAL AR 3-3C               | MED/ICAO          | 1097067 | 1097068 | use prod. itself, on demand              |                      |         |         |
|          | 3-6% | UNIRAL AR 3-6M               | MED.              | 784065  | 784066  | Use prod. itself, but will be superseded |                      |         |         |
| 764065   |      |                              |                   | 764066  |         |  |                      |         |         |

### SUPERSEDED FOAMS

| Products |      | Product       | Approvals         | Can    | Drum   | Foam Top-up    | Replacement Foam     | Can     | Drum    |
|----------|------|---------------|-------------------|--------|--------|----------------|----------------------|---------|---------|
| AFFF     | 3-3% | UNIRAL AR 3-3 | no class approval | 677203 | 677179 | UNIRAL AR 3-3M | ARC 3x3              | 1094774 | 1094775 |
|          |      |               |                   |        |        |                | ARC 3x3 <sup>1</sup> |         |         |
|          | 3-6% | UNIRAL AR 3-6 | no class approval | 676981 | 596023 | UNIRAL AR 3-6M | UNIRAL AR 3-6M       | 784065  | 784066  |

# HIGH EXPANSION FOAM CONCENTRATE 2% IAF PD9272

- Class B Fires
- 10 Year shelf life
- For fires in Hydrocarbons

## Benefits

- Our high expansion 2% IAF PD9272 meets the latest IMO regulations making it ideal for updating your vessels' foam firefighting system
- For use in machinery spaces for high expansion foam systems
- When stored correctly in accordance with the manufacturer's guidelines or in the containers it is supplied in, it will generally have a shelf life in excess of 10 years.
- Global availability, fleet flexibility and standardisation make it ideal for a long-term solution



## Ordering Information

| Product Number | Product Name                                   |
|----------------|--|
| 711808         | Foam Concentrate High Expansion 2% 20 L Can*   |
| 711390         | Foam Concentrate High Expansion 2% 200 L Drum* |

## TECHNICAL DATA

|  |                                  |
|--|----------------------------------|
| Type   | Inside Air Foam (IAF), synthetic |
| Usage  | Engine Room                      |
| Density kg/L @ 20 °C                         | 1.022 ± 1.038                    |
| Viscosity 20 °C (IMO 3.4) mm <sup>2</sup> /s | < 30                             |
| Viscosity at 0 °C mm <sup>2</sup> /s         | < 70                             |
| pH at 20 °C                                  | 7.0 to 8,5                       |
| Sediments, Max (% Vol)                       | None                             |
| Storage Temperature                          | -10 °C to +50 °C                 |
| Pour Temperature                             | -10 °C                           |
| Cloud Temperature                            | -2 °C                            |
| Foam Expansion Ratio                         | High, > 700 times                |
| Drainage Time 25 % Min                       | 6.00 min                         |
| Drainage Time 50 % Min                       | 15.00 min                        |

## Approvals

Approved to IMO MSC.1/Circ.1312, MED/3.61a.



## SUPERSEDED FOAMS

| Products            |    | Product | Approvals     | Can    | Drum   | Foam Top-up | Replacement Foam | Can    | Drum   |
|---------------------|----|---------|---------------|--------|--------|-------------|------------------|--------|--------|
| HighExpansion (IAF) | 2% | HOTFOAM | Not Available | 676791 | 676783 | IAF PD9272  | IAF PD9272       | 711808 | 711390 |

# FIRE PROTECTION & DETECTION

Gas carriers, chemical carriers and some oil tankers need a system to prevent cargo from catching fire, explosions in the cargo or void space and to prevent damage by air and moisture. This can be achieved by keeping the oxygen content below 8 %, a standard set by the International Maritime Organisation (IMO).



Setting the global standard for fire safety solutions

# PERSONAL FIRE PROTECTION

## FIREBUDDY PLUS FIRE FIGHTERS OUTFIT

- The jacket has a stand-up collar, elasticated cuffs and is closed by a zip covered by an overlapping front
- The touch and close fastening and elasticated trouser braces allow for the suit to be donned quickly
- Gloves, boots and helmet are en approved in accordance with MED ships wheel
- Soft flexible materials to provide movement

### Benefits

- The 4-layer construction ensures thermal protection whilst providing you with high comfort factors using breathable materials
- Our softer materials even with 4 layers give you flexible movement which is a crucial element when you need to enter confined spaces or be physically active
- Our suit sizing is generous allowing you the choice to wear additional clothing



### TECHNICAL DATA

|                   | Medium     | Large      | Extra Large |
|-------------------|------------|------------|-------------|
| <b>Height</b>     | 164-182 cm | 170-188 cm | 176-194 cm  |
| <b>Chest</b>      | 84-104 cm  | 96-116 cm  | 112-132 cm  |
| <b>Waist</b>      | 84-104 cm  | 96-116 cm  | 112-132 cm  |
| <b>Inside Leg</b> | 74 cm      | 79 cm      | 84 cm       |

### Ordering Information

| Product Number | Product Name                                   |
|----------------|--|
| <b>775620</b>  | <b>Firebuddy Plus Outfit Size Medium*</b>      |
| <b>775621</b>  | <b>Firebuddy Plus Outfit Size Large*</b>       |
| <b>775622</b>  | <b>Firebuddy Plus Outfit Size Extra Large*</b> |

### Accessories

| Product Number | Product Name                                  |
|----------------|---|
| 766803         | Fireman Boots Size 41                         |
| 766804         | Fireman Boots Size 42                         |
| <b>766805</b>  | <b>Fireman Boots Size 43*</b>                 |
| <b>766806</b>  | <b>Fireman Boots Size 44*</b>                 |
| 766807         | Fireman Boots Size 45                         |
| 766808         | Fireman Boots Size 46-47                      |
| 902181         | PalmBuddy Gloves                              |
| 775379         | Fire Fighters Suit Insulated Gloves           |
| 777539         | Lamp Holder for PAB Fire Fighters Helmet      |
| <b>777538</b>  | <b>Led Lamp for PAB Fire Fighters Helmet*</b> |

APPROVALS  
MED/SOLAS



# FIRE AXE WITH INSULATED HANDLE

- Insulated handle
- Corrosion resistant
- Ergonomic grip

## Benefits

- Insulated handle for longer life and giving you excellent protection
- It is impact proof and will not shatter when you are tackling solid metals
- The axe head is SAE1055 steel - a proven workhorse of the rescue industry



\* Axe supplied may differ in appearance to the photo shown

## Ordering Information

| Product Number | Product Name                         |
|----------------|--------------------------------------|
| 534958         | Fire Axe with Insulated Handle 2 kV* |

# FIRE AXE 32 INCH

- 32" (800mm) handle
- Ash or Hickory handle
- The axe is hardened in both ends between 54-56 Rockwell hardness and epoxy coated to avoid corrosion

## Benefits

- Ash or Hickory handle for sure grip even when your hands are wet
- The axe head is toughened giving you a tool to tackle the hardest of jobs



## Ordering Information

| Product Number | Product Name                |
|----------------|-----------------------------|
| 755314         | Fire Axe with 32 Inch Shaft |

# BELT, HOLSTER & AXE

- Corrosion resistant fittings
- Heavy duty d ring riveted for strength
- Fits waist sizes 32 inches to 52 inches

## Axe Features

- Insulated Fire Axe – see information on page 103



## Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| FFAXEBELTLB    | Fire Fighters Belt, Holster and Axe |

## Approvals

MED type approved according to SOLAS 74/2009 convention.



# FIRE FIGHTER BOOTS (MED)

- Fire Proof Nitrile rubber
- Polymer toe cap
- Composite anti-perforation mid-sole
- Chemical resistance
- Wide size range - 41 to 46
- Suitable for use with the Firebuddy suit

## Benefits

- These boots are suitable for emergency situations, firefighting or incidents involving the release of hazardous chemicals
- They give protection against numerous other hazards including fuels, greases, solvents, weak and diluted acids
- Tough long-lasting boots which boast excellent resistance to cuts and abrasions



## Ordering Information

| Product Number | Product Name                           |
|----------------|--|
| 766803         | MED Fire Fighter Boots Size 41         |
| 766804         | MED Fire Fighter Boots Size 42         |
| <b>766805</b>  | <b>MED Fire Fighter Boots Size 43*</b> |
| <b>766806</b>  | <b>MED Fire Fighter Boots Size 44*</b> |
| 766807         | MED Fire Fighter Boots Size 45         |
| 766808         | MED Fire Fighter Boots Size 46/47      |

Approvals  
MED/SOLAS



# DOUBLE SKIN LONG CAPE FLASH/TURNOUT FIRE HOOD

- 230Gsm aramid/viscose fr/anti-static fibre
- Full shoulder cape
- Low heat conductivity
- All seams sewn with 100% aramid thread
- Anti-static outer fibre
- One size fits all
- Available in one colour only (yellow)



Approvals

MED type approved according to SOLAS 74/2009 convention.



## Ordering Information

| Product Number | Product Name                             |
|----------------|--|
| FFSUIFHL       | Double Skin Long Cape Turnout Fire Hood* |



# FIRE 04 HT HELMET

- Includes visor and neck curtain
- Lightweight
- Visor approved for use in fires
- Interior ventilating channels enable safe and comfortable work
- Luminescent and reflective tapes visible from all sides and in all conditions
- Nomex chinstrap - tested to prevent skin irritations
- Visor folds inside helmet when not used for added protection and is not in your line of vision
- The helmet and visor both give you high impact resistance for clearing debris or during firefighting operations
- Separate lightweight LED lamp with simple click fit



## Ordering Information

| Product Number | Product Name                    |
|----------------|---------------------------------|
| 774943         | PAB Helmet HT04 Red with Visor* |

## Accessories

| Product Number | Product Name                             |
|----------------|--|
| 777538         | Lamp for PAB Fire Fighter's Helmet*      |
| 777539         | Lamp Holder for PAB Fire Fighters Helmet |

## TECHNICAL DATA

|                              |   |
|------------------------------|---|
| Sizing                       | 52 to 63 cm   |
| Temperature Resistance       | Up to 1000 °C Blast   |
| Long-term Resistance         | Up to 250°C / 30 min, radiant heat test 14 KW / m <sup>2</sup>                |
| Mechanical Impact Resistance | EN 443/2008   |
| Visor Coating                | PES anti-scratch and anti-fog coated visor resistible up to 300 °C (EN 14458) |
| Neck Protection              | Aluminized carbon-fibre   |
| Weight                       | 1.350 kg  |

APPROVALS  
MED/SOLAS



# LED LAMP FOR FIRE HELMET PAB

- Simple click fit
- Lightweight
- ATEX approved

## Benefits

- You simply click it into the holder on your helmet
- It is extremely lightweight so does not restrict or reduce your head movement
- It is approved for use in hazardous zones so you can use it during rescues as well as fire fighting duties



## TECHNICAL DATA

|                    |                       |
|--------------------|-----------------------|
| Battery Type       | 4 x AA Alkaline / LR6 |
| Output Time        | 4 -5 h                |
| Beam Distance      | 99.97 m               |
| Class 1 Division 2 | UK4AA-AS2ZM           |

## Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 777538         | LED Lamp for Fireman Helmet PAB*    |
| 777539         | LED Lamp Holder for Fireman Helmet* |

# FIRE FIGHTERS LINE WITH HOOK 30 M

- Galvanized steel cable IRWC 6 x 19, PP fibre core 5mm with Trevira CS braiding
- 6.6 kN breaking strength
- Snap hook and karabiner fittings

## Benefits

- Flame resistant making it ideal for use with your fire fighter's equipment
- Quick snap on or off allows quick removal if you require
- Outer protection ensures any chaffing does not affect the inner core
- Galvanised cable provides a long life in the marine environment



## Approvals

MED type approved according to SOLAS 74/2009 convention.



## Ordering Information

| Product Number | Product Name                           |
|----------------|--|
| 176826         | Fire Fighters Lifeline with Hook 30 m* |
| 176834         | Fire Fighters Lifeline with Hook 45 m  |
| 781575         | Fire Fighters Lifeline with Hook 60 m  |

# FIRE EQUIPMENT CABINETS

- IP56 rated
- Lloyd's Type Test approval, making the ideal for use in demanding conditions
- The equipment cabinet provides a safe place to store all of your firefighting equipment, including fire hoses, breathing apparatus, fire extinguishers and firefighters' clothing
- The cabinets are available in a variety of standard sizes with roller-shutter or hinged doors



## Approvals

Lloyd's Type Test Approval (not including SOS101)



## Ordering Information

| Product Number | Product Name                      |
|----------------|-----------------------------------|
| FFCABJB08FE    | JB08FE Firemans Equipment Cabinet |
| FFCABJB10FE    | JB10FE Firemans Equipment Cabinet |
| FFCABJB17FE    | JB17FE Firemans Equipment Cabinet |
| FFCABJB18FE    | JB18FE Firemans Equipment Cabinet |
| FFCABJB28      | JB28 Fire Axe Cabinet             |

# EMERGENCY COMMUNICATION

Finding yourself in a distressful environment is not something any of us would like to incur. However, our diverse range of emergency communication can be a vital tool for attracting attention and communicating your intentions to other vessels. Our global distribution network supplies a range of quality approved brands to cater for a variety of vessel requirements and to suit your safety needs.



**Vital tools to attract  
attention and  
communicate  
intentions**

## LINETHROWER 250

- All line-throwing operations at sea between vessels, ship-to-shore, shore-to-ship and shore based rescue services
- Rescue of swimmers in distress
- Line carrying across obstacles and rough terrain
- SOLAS/MED and USCG compliant
- Throwing range of between 230 m and 250 m
- 9 year life

### TECHNICAL DATA

|                              |        |
|------------------------------|--------|
| <b>Length</b>                | 330 mm |
| <b>Height</b>                | 315 mm |
| <b>Diameter</b>              | 205 mm |
| <b>Weight</b>                | 4.4 kg |
| <b>Net Explosive Content</b> | 118 g  |
| <b>Rocket Max Weight</b>     | 427 g  |
| <b>Line Breaking Strain</b>  | > 2 kn |



### Ordering Information

| Product Number | Product Name         |
|----------------|----------------------|
| 790390         | Linethrower 250 Unit |

## LINETHROWER 250 ROCKET

- Self-contained line-throwing appliance consisting of a weatherproof plastic casing with end cap, twist-grip trigger assembly, rocket and line
- To comply with SOLAS requirements, four complete rocket and line assemblies should be carried on board
- Throwing range of between 230m and 250m
- A solid propellant is used which guarantees a highly accurate flight path even in strong side winds

### TECHNICAL DATA

|                              |                |
|------------------------------|----------------|
| <b>Dimensions</b>            | 37 x 27 x 27cm |
| <b>Weight</b>                | 9.4 kg         |
| <b>Net Explosive Content</b> | 118 g          |
| <b>Hazard Class</b>          | 1.4 G          |



### Ordering Information

| Product Number | Product Name           |
|----------------|------------------------|
| 790762         | Linethrower 250 Rocket |

# MANOVERBOARD LIFEBOUOY MARKER MK9

- Combined light and smoke manoverboard lifebuoy marker
- Mounts onto the ships bridge wing attached to a 4 kg lifebuoy
- Can be automatically or manually deployed
- Features a self-activated lighting system
- Safe to use on petrol and oil covered water

## TECHNICAL DATA

|                                      |                       |
|--------------------------------------|-----------------------|
| Height                               | 375 mm                |
| Diameter                             | 183 mm                |
| Weight                               | 3.3 kg                |
| Weight Including Brackets and Angles | 3.85 kg               |
| Net Explosive Content                | 1.287 kg              |
| Lamps                                | 2 x 3.6 v 2.0 A       |
| Temperature Range                    | -30 °C to +65 °C      |
| Burning Time                         | 15 minutes            |
| Colour of Light                      | White                 |
| Duration                             | 2 candela for 2 hours |



## Ordering Information

| Product Number | Product Name                     |
|----------------|----------------------------------|
| 781595         | Manoverboard Lifebuoy Marker MK9 |

# PARACHUTE RED ROCKET

- Approved to the latest worldwide SOLAS specification
- Performs reliably even after immersion in water
- Ejects a red flare on parachute at 300m (1000f)
- Burns for 40 seconds at 30,000 candela

## TECHNICAL DATA

|                       |                      |
|-----------------------|----------------------|
| Length                | 287 mm               |
| Diameter              | 32 - 38 mm at handle |
| Weight                | 245 g                |
| Net Explosive Content | 92 g                 |
| Ignition              | Pull Wire Ignitor    |
| Flare Burning Time    | 40 seconds           |
| Light Intensity       | 30,000 cd            |
| Colour of Light       | Red                  |
| Altitude              | 300 m                |



## Ordering Information

| Product Number | Product Name              |
|----------------|---------------------------|
| 790758         | Parachute Red Rocket MK8A |

# RED HANDFLARE MK8

- Approved to the latest worldwide SOLAS specification
- Red hand held, short range distress signal used to pinpoint location by day or night
- Produces hot red flame for 60 seconds at 15,000 candela

## TECHNICAL DATA

|                              |                   |
|------------------------------|-------------------|
| <b>Length</b>                | 280 mm            |
| <b>Diameter</b>              | 28 mm             |
| <b>Weight</b>                | 176 g             |
| <b>Net Explosive Content</b> | 63 g              |
| <b>Ignition</b>              | Pull Wire Ignitor |
| <b>Flare Burning Time</b>    | 60 seconds        |
| <b>Light Intensity</b>       | 15,000 cd         |
| <b>Colour of Smoke</b>       | Orange            |



## Ordering Information

| Product Number | Product Name      |
|----------------|-------------------|
| 790754         | Red Handflare MK8 |

# LIFESMOKE MK9

- Signal for position marking during rescue operations
- Indicates wind direction
- Safe use on oil or petrol covered water
- Conforming to SOLAS 74 as amended
- Ideal also for leisure boats

## TECHNICAL DATA

|                              |  |
|------------------------------|--|
| <b>Height</b>                | 144 mm   |
| <b>Diameter</b>              | 82 mm  |
| <b>Weight</b>                | 370 g  |
| <b>Net Explosive Content</b> | 239 g  |
| <b>Ignition</b>              | Percussion ignitor with 2 seconds safety delay |
| <b>Burning Time</b>          | 3 Minutes minimum                              |
| <b>Colour of Smoke</b>       | Orange   |



## Ordering Information

| Product Number | Product Name  |
|----------------|---------------|
| 790760         | Lifesmoke MK9 |

# DUMMY PYROTECHNICS

- Designed for training purposes onboard vessels

## Ordering Information

| Product Number | Product Name                    |
|----------------|---------------------------------|
| PYROCPMK8AD    | Dummy Parachute Red Rocket MK8A |
| PYH/FRPMMK8D   | Dummy Red Handflare MK8         |
| PYLSMK9D       | Dummy Lifesmoke MK9             |



# CYALUME 6" SNAPLIGHT CHEMICAL LIGHT 15CM

- Easy to use
- Twist to activate – Bend/Snap and Shake
- Do not require a battery or rechargeable cell
- Packaging protects them from light and damp
- Maintenance free
- Phthalate free



## TECHNICAL DATA

|                            |   |
|----------------------------|---|
| <b>Packed Dimensions</b>   | 280 mm  |
| <b>Packed Weight</b>       | 28 mm   |
| <b>Product Dimensions</b>  | 176 g   |
| <b>Weight</b>              | 63 g  |
| <b>Capacity</b>            | Pull Wire Ignitor   |
| <b>Duration and Colour</b> | 12 hours – Green, Red, Yellow, Orange<br>8 hours – Blue, White<br>30 minutes – Yellow, Red, White<br>5 minutes – HI Ultra Orange  |
| <b>Shelf Life</b>          | 5 years – 6" SnapLight 12 hours and 8 hours<br>4 years – 6" SnapLight 30 minutes<br>2 years – 6" SnapLight Ultra Orange<br>5 mins |

## Ordering Information

| Product Number | Product Name         |
|----------------|----------------------|
| 791681         | Cyalume 6" Snaplight |

# LIGHTSTATIONS MODEL 20, 4 & 10 EVACUATION BOXES

- Ideal for use on Cruise Ships
- Anti-break pins make it easy to check if the box has been opened
- Simple twist and shake activation
- Glow time of 4 hours
- Shelf Life 4 years



## Ordering Information

| Product Number | Product Name          |
|----------------|-----------------------|
| SULIGST20      | Model 20 LightStation |
| SULIGST04      | Model 4 LightStation  |
| SULIGST10      | Model 10 LightStation |

## TRON 60S/GPS

- Small and compact design
- Tamper proof
- Optimal visibility
- High-intensity LED
- 5 years warranty
- The EPIRB can be supplied either with manual or float-free bracket

### TECHNICAL DATA

|                                  |   |
|----------------------------------|---|
| <b>Dimensions</b>                | 340 mm x 128 mm   |
| <b>Weight</b>                    | 680 g   |
| <b>Battery</b>                   | Lithium metal, 12V/2900 mAh   |
| <b>Service life</b>              | 5 years   |
| <b>Materials</b>                 | Glass reinforced Polycarbonate  |
| <b>Compass safe distance</b>     | 1 m   |
| <b>Cospas-Sarsat Transmitter</b> | Frequency: 406.037 MHz<br>Output power: 5W  |
| <b>Homing transmitter</b>        | Frequency: 121.500 MHz<br>Output power: Up to 100 mW                                    |
| <b>Protocols</b>                 | Maritime, Serialized, Radio Call sign   |
| <b>Navigation device</b>         | 22 Channel GPS Receiver (Tron 60GPS)  |
| <b>Antenna</b>                   | Omnidirectional   |
| <b>Operating Life</b>            | Minimum 48 hours at -20°C   |
| <b>Temperature Range</b>         | Operating: -20°C to +55°C (-4°F to +131°F)<br>Storage: -30°C to +65°C (-22°F to +149°F) |



### Ordering Information

| Product Number | Product Name                            |
|----------------|---|
| 83310          | TRON 60S EPIRB with Floatfree Bracket   |
| 83320          | TRON 60S EPIRB with Manual Bracket      |
| 83330          | TRON 60GPS EPIRB with Floatfree Bracket |
| 83340          | TRON 60GPS EPIRB with Manual Bracket    |

### Spares

| Product Number | Product Name               |
|----------------|----------------------------|
| 86218          | TRON 60S/60GPS HRU Kit     |
| 86225          | TRON 60GPS/60S Battery Kit |

## SMARTFIND G8 AND G8 AIS EPIRB

- Rescue Accelerating features
- MEOSAR compatibility
- Easy service battery
- 10 year battery life
- Compliance with the new United States emergency hands free transport mandate
- False activation protection and self-test functions
- Rugged base

### TECHNICAL DATA

|                                |  |
|--------------------------------|--|
| <b>Dimensions</b>              | 423 x 104 x 103 mm                                   |
| <b>Weight</b>                  | 710 g  |
| <b>Length of Antenna</b>       | 206 mm   |
| <b>Power Output</b>            | 100mW, 1W and 5W nominal                             |
| <b>Battery Type</b>            | Lithium iron disulfide                               |
| <b>Operating Life</b>          | 48 hours minimum                                     |
| <b>Shelf Life (in-service)</b> | 10 years   |
| <b>Temperature Range</b>       | -30°C to +70°C storage<br>-20°C to +55°C operational |



### Ordering Information

| Product Number | Product Name                          |
|----------------|---------------------------------------|
| 731524         | SmartFind G8 Auto EPIRB Floatfree     |
| 731523         | SmartFind G8 Manual EPIRB             |
| 731527         | SmartFind G8 AIS Auto EPIRB Floatfree |
| 731527         | SmartFind G8 AIS Manual EPIRB         |



# SMARTFIND E8 EPIRB

- Subscription Free
- Alerts global Search & Rescue professionals via Cospas Sarsat 406 MHz frequency
- Locates to within 3-5 km
- Uses 121.5 frequency to home into EPIRB location
- Water Activation
- 10 year battery
- Multiple false activation protection measures

## TECHNICAL DATA

|                                |  |
|--------------------------------|--|
| <b>Dimensions</b>              | 423 x 104 x 103 mm                                   |
| <b>Weight</b>                  | 710 g  |
| <b>Length of Antenna</b>       | 206 mm   |
| <b>Power Output</b>            | 100mW, 1W and 5W nominal                             |
| <b>Battery Type</b>            | Lithium iron disulfide                               |
| <b>Operating Life</b>          | 48 hours minimum                                     |
| <b>Shelf life (in-service)</b> | 10 years   |
| <b>Temperature Range</b>       | -30°C to +70°C storage<br>-20°C to +55°C operational |



## Ordering Information

| Product Number | Product Name              |
|----------------|---------------------------|
| 731521         | SmartFind E8 Auto EPIRB   |
| 731520         | SmartFind E8 Manual EPIRB |

# MCMURDO HRU REPLACEMENT KIT FOR E5/G5 EPIRB

- Should the vessel sink, the Hammar H20, which is activated by increasing water pressure, automatically release the EPIRB
- Use only manufacturer approved replacement bolt (rod)
- The Hammar H20 is made of glass fiber reinforced nylon, which means that it will not rust
- Needs no annual service, maintenance or spare parts
- Simply install a new one every two years and dispose of the old one
- Keeping the environment in mind, the old unit is 97% recyclable



## Ordering Information

| Product Number | Product Name   |
|----------------|--|
| COHRUHME       | Cohruhme Hammar HRU EPIRB                              |
| COBLTHRU       | Coblthru Breakable Rod Replacement Kit For EPIRB E5/G5 |

## TRON AIS-SART SEARCH AND RESCUE

- Adopted by IMO RES MSC. 256 (84) as an alternative to 9GHz SART
- Unique AIS technology contribute to a more effective and less time-consuming SAR operation, due to superior position accuracy
- The AIS-SART is detected on both AIS Class A and B
- Small and compact
- Jotron Tron AIS-SART use the same accessories as the Tron SART20 (Bulkhead bracket, pole, life-boat bracket and neoprene protection bag)
- 5 years warranty

### TECHNICAL DATA

|                          |  |
|--------------------------|--|
| <b>Dimensions</b>        | 251 mm high  |
| <b>Weight</b>            | 450 g  |
| <b>Antenna Height</b>    | Place at least 1m (3.3 ft) above sea/ground level    |
| <b>Operating Life</b>    | Minimum 96 hours                                     |
| <b>Temperature Range</b> | Operating: -20°C to +55°C<br>Storage: -30°C to +65°C |



### Ordering Information

| Product Number | Product Name                   |
|----------------|--------------------------------|
| 85037          | TRON AIS-SART C/W Bulkhead BKT |

### Spares

| Product Number | Product Name                      |
|----------------|-----------------------------------|
| 82615          | TRON SART 20 and AIS SART Battery |

## TRON SART20 RADAR TRANSPONDER

- Designed for use in search and rescue (SAR) operations
- Gives the location for any nearby vessel and aircraft with X-band radar
- Designed for use in lifeboats and liferafts
- Easy mounting in bulkhead bracket onboard the vessel
- Easy to release and activate
- 5 years warranty

### TECHNICAL DATA

|                          |  |
|--------------------------|--|
| <b>Dimensions</b>        | 251 mm high  |
| <b>Weight</b>            | 482 g  |
| <b>Antenna</b>           | Horizontal polarisation<br>Omnidirectional radiation in the horizontal plane<br>Greater than $\pm 2.5$ degrees elevation angle in the vertical plane |
| <b>Operating Life</b>    | 96 hours standby + 8 hours continuous operation when activated by a radar with 1 kHz prf at -20°C  |
| <b>Temperature Range</b> | Operating: -20°C to +55°C<br>Storage: -30°C to +65°C   |



### Ordering Information

| Product Number | Product Name                   |
|----------------|--------------------------------|
| 83010          | TRON SART 20 Radar Transponder |

### Spares

| Product Number | Product Name                      |
|----------------|-----------------------------------|
| 82615          | TRON SART 20 and AIS SART Battery |

# S4 RESCUE SART

- Ship or survival craft options
- Waterproof to 10m
- Compact and lightweight
- Replaceable 5 year battery pack
- Audio/visual indication of operation
- Built-in test facility
- Integral lanyard
- Mounting options - internal/external

## TECHNICAL DATA

|                                     |   |
|-------------------------------------|---|
| <b>Dimensions</b>                   | 264 mm x 90 mm  |
| <b>Weight</b>                       | 360 g   |
| <b>Weight with Mast and Bracket</b> | 530 g   |
| <b>Effective Antenna Height</b>     | 1 meter or greater  |
| <b>Radiated Power (ERP)</b>         | 400 mW (+26 dBm)  |
| <b>Transmitter Response</b>         | 12 forward and return sweeps through range of 9.2 - 9.5 GHz |
| <b>Receiver Response</b>            | 9.2 - 9.5 GHz   |
| <b>Battery Replacement</b>          | 5 years   |
| <b>Duration</b>                     | 96 hours in standby   |
| <b>Temperature Range</b>            | -30 °C to +65 °C storage<br>-20 °C to +55 °C operational    |



## Ordering Information

| Product Number | Product Name   |
|----------------|----------------|
| 731534         | S4 Rescue SART |

# TRON AIS-TR-8000

## AUTOMATIC IDENTIFICATION

## SYSTEM CLASS A

- Separate display and transponder unit
- 7" Touch Screen Display
- Easy ECDIS interface
- Software upgradable
- Collision alarms (tCPA, CPA)
- Approved according to latest AIS-standard

## TECHNICAL DATA

|                          |  |
|--------------------------|--|
| <b>Dimensions</b>        |  |
| - Display Unit           | 210 mm x 83 mm x 150.4 mm                            |
| - Transponder Unit       | 319 mm x 204 mm x 77 mm                              |
| <b>Weight</b>            |  |
| - Display Unit           | 1 kg   |
| - Transponder Unit       | 3.7 kg   |
| <b>Temperature Range</b> | Operating: -20°C to +55°C<br>Storage: -30°C to +65°C |



## Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 85500          | TR-8000 AIS Class A C/W GPS Antenna |

# RADIOS

## TRON TR30 GMDSS AND MARITIME VHF RADIO

- Floating GMDSS and maritime VHF radio
- Full duplex channels accessed with rechargeable battery
- Emergency mode when connected to primary battery
- Excellent microphone noise cancelling
- Waterproof accessories



### Ordering Information

| Product Number | Product Name                               |
|----------------|--|
| 87950          | TRON TR30 GMDSS & VHF Radio Kit            |
| 83446          | TRON TR30 GMDSS VHF With Emergency Battery |

### Spares

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 101035         | TRON TR30 Emergency Lithium Battery |
| 101036         | TRON TR30 Rechargeable Battery      |

### TECHNICAL DATA

|                             | Emergency battery (non-chargeable)          | Rechargeable battery                        |
|-----------------------------|---|---|
| Frequency Range             | TX: 154-RX 161.875 MHz                      | TX: 154-RX:161.875 MHz                      |
| Channel Spacing             | 25 KHz                                      | 25 KHz                                      |
| Operating Temperature Range | 20°C to +55°C                               | 20°C to +55°C                               |
| Battery Operating Time      | 12 h (10-10-80)                             | Typ. 12 h (5-5-90) medium                   |
| Size                        | 61 mm x 157 mm x 40 mm (47 mm depth w/clip) | 61 mm x 157 mm x 40 mm (47 mm depth w/clip) |
| Full Buoyancy               | Yes   | Yes   |
| Weight                      | Approx.: 300 g                              | Approx.: 295 g                              |

## R5 GMDSS VHF RADIO

- Waterproof to IP67 (submersible to 0.5 m for 30 minutes)
- MED (Wheelmark) and FCC approved
- Fully GMDSS compliant
- Rugged, drop tested construction with ribbed grip
- Large backlit display with battery indicator
- Rotary volume control
- Quick channel select button
- Keypad lock
- Dual and Tri Watch function
- Battery storage and charger base options



### TECHNICAL DATA

|                           |                  |
|---------------------------|------------------|
| Dimensions                | 276 x 52 66 mm   |
| Weight                    | 340 g            |
| Waterproof Rating         | IP67             |
| Frequency Range           | 149.3 - 174 MHz  |
| Channel Separation        | 25 kHz           |
| GMDSS channels            | 23               |
| Transmitter Power (Hi/Lo) | 2/1 W            |
| Storage Temperature       | -30 °C to +70 °C |
| Operating Temperature     | -20 °C to +55 °C |

### Ordering Information

| Product Number | Product Name           |
|----------------|------------------------|
| COVHFR5A       | R5 VHF GMD SS - A Pack |
| COVHFR5B       | R5 VHF GMD SS - B Pack |

# E-TECH EP 400 UHF FIRE FIGHTER RADIO

- ATEX approved
- Compact size
- Power save mode capabilities
- Backlight LCD screen for ease of use
- Double conversion receiver
- Direct FM transmitter modulator
- Rugged hand-held grip
- Interface to external accessories



## 2018

On November 30, 2012 the Maritime Safety Committee adopted Resolution MSC.338(91) among which, Chapter II-2 "Construction – Fire Protection, Fire Detection and Fire Extinction" mentions specifically the use of suitable radio equipment.

### TECHNICAL DATA

|                                |                                      |
|--------------------------------|--------------------------------------|
| <b>Dimensions</b>              | 114 x 55 x 30 mm                     |
| <b>Weight</b>                  | 300 g                                |
| <b>IP Rating</b>               | IP54                                 |
| <b>Frequency Range</b>         | UHF, 403 – 470 MHz                   |
| <b>Input Voltage</b>           | 7.4V DC                              |
| <b>Battery Type / Capacity</b> | Lithium-ion (Rechargeable), 1350 mAh |
| <b>ATEX Rating</b>             | Class II 2G Ex ib IIC T4             |
| <b>Marine Rating</b>           | IEC 60945                            |
| <b>Operating Temperature</b>   | -20 °C to +45 °C                     |

### Ordering Information

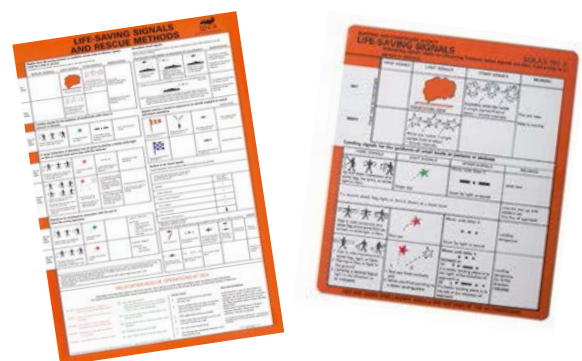
| Product Number | Product Name  |
|----------------|---|
| SDK10 ATEX     | EP-400 ATEX UHF Radio set, C-C440, HC-1, Leather Case |
| <b>B00197</b>  | <b>EP-400 ATEX UHF Radio unit*</b>                    |

### Accessories

| Product Number | Product Name                                 |
|----------------|--|
| B00569         | EP-400 Savox C-C440 PTT unit                 |
| B00231         | EP-400 Savox HC-1 Helmet unit                |
| B00280         | EP-400 Carry case unit                       |
| B00404         | EP-400 APB8 Rechargeable Li-ion Battery unit |

## IMO SIGNAGE

- Survitec can supply educational, operational and information posters
- Designed either as a training aid in compliance with the ISM Code, to inform of safe working practices or to fulfil the requirements of specific regulations
- Assists the ship owner/operator to fulfil their obligation by providing practical information on shipboard operations
- A number of posters are available in different languages to assist non-English speaking clients



### Ordering Information

| Product Number | Product Name                        |
|----------------|-------------------------------------|
| 901982         | Poster Lifesaving Signals – SOLAS 1 |
| 02176011       | Lifesaving Signals Table – SOLAS 2  |

# FIRST AID AND MEDICAL

Many of your medical equipment needs are available through the Survitec portfolio; this includes a variety of first aid kits, defibrillators, eye wash stations, emergency showers and oxygen resuscitation equipment. Soft Packs first aid kits can be supplied for your lifeboat requirements. Our entire range of products are specially designed for ease of use and is most importantly consistent reliability.

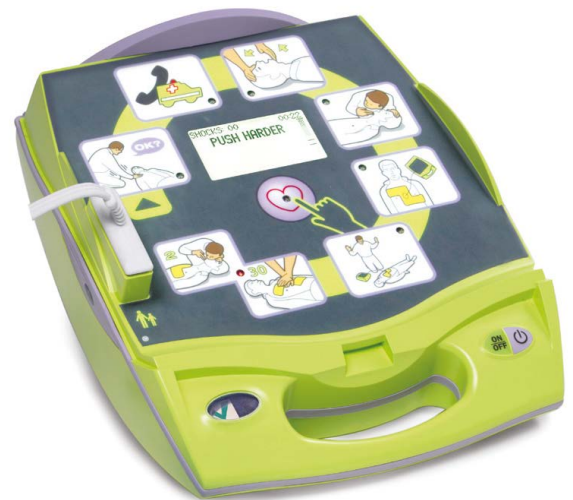


“From basic care through to specialist casualty sustainment solutions”

# DEFIBRILLATORS

## ZOLL AED PLUS

- Available in fully and semi-automatic versions
- Offers dependability, durability and continuous performance
- Real CPR help with voice and text prompts, and rate and depth feedback
- 12 second pre-shock pause
- Step-by-step directions
- Child specific algorithm
- 5-year stand-by battery life



### TECHNICAL DATA

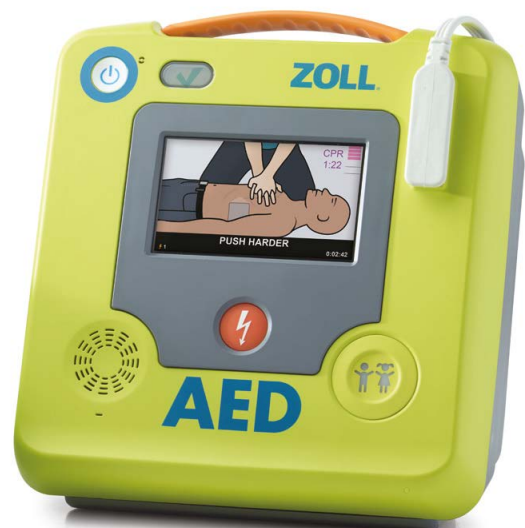
|                               |                            |
|-------------------------------|----------------------------|
| <b>Waveform</b>               | Rectilinear Biphasic       |
| <b>Dimensions (H x D x W)</b> | 13.3 x 24.1 x 29.2 cm      |
| <b>Weight</b>                 | 3.1 kg                     |
| <b>Electrodes</b>             | CPR-D adult and CPR-D pedi |
| <b>Checks</b>                 | Manual                     |
| <b>Connectivity</b>           | IrDA                       |

### Ordering Information

| Product Number | Product Name                         |
|----------------|--------------------------------------|
| FADFIBZAEDPSA  | Zoll AED Plus Semi-Automatic Device  |
| FADFIBZAEDPFA  | Zoll AED Plus Fully Automatic Device |

## ZOLL AED 3

- Available in fully and semi-automatic versions
- Dynamic rescue images and full colour display
- Universal pad design, offering a solution to treat both adult and pediatric victims of SCA using the same set of electro pads
- WiFi connectivity allowing for easy management of the users device via the cloud
- Real CPR help with voice and text prompts, and rate and depth feedback
- 8 second pre-shock pause
- Touch screen configuration
- Simple child mode activation
- 5-year smart battery stand-by life



### TECHNICAL DATA

|                               |                        |
|-------------------------------|------------------------|
| <b>Waveform</b>               | Rectilinear Biphasic   |
| <b>Dimensions (H x D x W)</b> | 12.7 x 23.6 x 24.7 cm  |
| <b>Weight</b>                 | 2.5 kg                 |
| <b>Electrodes</b>             | CPR Uni-padz           |
| <b>Checks</b>                 | Automatic notification |
| <b>Connectivity</b>           | WiFi                   |

### Ordering Information

| Product Number | Product Name                      |
|----------------|-----------------------------------|
| FADFIBZAED3SA  | Zoll AED 3 Semi-Automatic Device  |
| FADFIBZAED3FA  | Zoll AED 3 Fully Automatic Device |

# STRETCHER AND WATERJEL

## NEIL ROBERTSON STRETCHER

- Flexible semi-rigid canvas design
- Lightweight
- High quality materials for longer product life
- Can be neatly folded to store away
- No specialist training is required to use
- The strapping holds the casualty firmly even when you need to recover vertically
- For use in an instance where a casualty needs to be lowered or lifted to safety
- Strong neck and head restraint for stability on the move
- Durable, non-rot cotton and slat construction
- Includes support rope to enable lifting and lowering



### Ordering Information

| Product Number | Product Name             |
|----------------|--------------------------|
| 184390         | Neil Robertson Stretcher |

### TECHNICAL DATA

|                  |        |
|------------------|--------|
| Length           | 150 cm |
| Width            | 100 cm |
| Weight           | 10 kg  |
| Lifting Capacity | 120 kg |

This stretcher is not able to be supplied for delivery in the US due to US FDA regulations.

### Approvals

CE-marked according to the European directive for Medical Device 93/42/EEC and registered by the Swedish Medical Products Agency



## FIRE BLANKET WATERJEL

- A full-size blanket that adequately covers a patient
- Can be used to extinguish flames and smouldering clothes
- Durable, easily identifiable canister
- Can be stored or used with WaterJel Mounting Bracket
- Size: 152cm x 182cm



### Ordering Information

| Product Number | Product Name           |
|----------------|------------------------|
| FABLKTW/JC     | Water-Jel Fire Blanket |



# TRANSFER AND ESCAPE

Survitec offers a range of transfer and escape equipment to get your passengers and crew where they need to go, safely and easily. From personal evacuation units to helideck equipment such as grab hooks, fireproof lifelines, and rescue harnesses; our products are specially designed and manufactured for consistent reliability and performance. Our team of global cruise experts are pleased to lend expert advice on which solutions are right for your vessel.



Safely transferring  
passengers and crew

# DESCENT DEVICES

## DONUT PERSONAL CONTROLLED DESCENT DEVICES

- Strap that attaches to the painter line of the liferaft, user is guided towards the liferaft during descent
- Removes risk of user being washed away when descent has been made to water level
- Provides user with guaranteed entry to the safety of the liferaft
- Available in standard descent lengths and in either liferaft compatible or standard vertical descent model types



### Ordering Information

| Product Number  | Product Name  |
|-----------------|---|
| SEDSM/50-N/GES  | Donut SM Personal Evacuation Unit 50nges Harness version/15 m Tape Liferaft Compatible  |
| SEDSM/100-N/GES | Donut SM Personal Evacuation Unit 100nges Harness version/32 m Tape Liferaft Compatible |
| SEDSM/150-N/GES | Donut SM Personal Evacuation Unit 150nges Harness version/46 m Tape Liferaft Compatible |
| SEDSM/200-N/GES | Donut SM Personal Evacuation Unit 200nges Harness version/65 m Tape Liferaft Compatible |
| SEDSM/250-N/GES | Donut SM Personal Evacuation Unit 250nges Harness version/76 m Tape Liferaft Compatible |

## DESCENT DEVICE CABINETS

- Uniquely Lloyds Register Type Test Approved
- American Bureau of Shipping Approved
- 25 years proven track record
- IP56 rated for excellent weather protection



### Ordering Information

| Product Number  | Product Name                     |
|-----------------|----------------------------------|
| SBCABJB02DD     | JB02 Descent Device Cabinet      |
| SBCABJB10.600DD | JB10.600 Descent Devices Cabinet |

# HELIDECK EQUIPMENT



## Ordering Information

| Product Number    | Product Name   |
|-------------------|--|
| 549300            | JB08 Helicrash Equipment Cabinet                                     |
| 501296            | Adjustable Wrench 12"  |
| FFAXENW           | Aircraft Axe Large   |
| TOBOLT/24         | Bolt Cutters - 24" High Tensile Bolt Cutter Centre Cut               |
| TOCRO36           | Crowbar Large - 1.2 Crow Bar   |
| FFGRBHK           | 4.5 M Rescue Grab Hook   |
| 501296            | Hacksaw (heavy duty) - 12" Hacksaw                                   |
| 501296            | Hacksaw Spare Blades   |
| FFBLKT1.8X1.2     | Fire Blanket 1.8 m x 1.2 m   |
| SELEN1313M        | Two Piece Ladder with Stabiliser Bar                                 |
| FFLIF15M          | Fireproof Lifeline 15 m  |
| 777603            | Rescue Harness   |
| 546747            | 150mm/6" Combination Plier with Side cutter                          |
| 716944            | Set of Assorted Screwdrivers   |
| 546671            | Quick Release Knife in Sheath  |
| 5120FFA1P2        | 5120 FFA1P2 Compact Mask Pre-Assembled                               |
| 902181            | PalmBuddy Gloves   |
| <b>Fire Suits</b> |  |
| FFSUI660JN        | Firefighters Suit 660 Style Tunic EN469:200/Ac:2006 Level 2 – MED    |
| FFSUI650TN        | Firefighters Suit 650 Style Trousers EN469:200/Ac:2006 Level 2 – MED |
| FFSUILG           | Firefighters Leather Gloves EN659:2004 + A1:2008                     |
| FFSUILB           | Firefighters Leather Boots EN15090:2006                              |
| FFSUIFHL          | FFSUIFHL Flash Hood Double Layer – Open Face EN13911:2004 EN 1149/3  |



# INDUSTRIAL CAPABILITIES



Survitec have been supplying Mooring Ropes to Cruise ships for many years. We have the capability to supply/inspect/service a full range of lifting equipment, height safety equipment. Tooling and hydraulics are also included in our portfolio. It's not only about having the required equipment in place; it's about having the right team by your side. With a focus on quality assurance, robust procedures, and detailed process controls, Survitec have developed an enhanced industrial lifting offering specific to cruise operators.



## INDUSTRIAL LIFTING REQUIREMENTS - PACKAGED JUST FOR YOU

From height safety, to tooling and hydraulics, specialised testing, and asset management – we offer trusted expertise, proven process controls, and thorough service. Survitec specializes in its unique ability to offer complete package solutions for the cruise industry; we offer cost effective and bespoke solutions for all lifting requirements.

Survitec's dedicated team of industrial engineers are highly trained and experienced in installation, maintenance, inspection, repair, and provide complete through life management of lifting equipment onboard vessels and ashore. Having worked with some of the leading cruise lines within many sectors of the industry, our industrial capabilities include:

- ✓ Cranes & Structures
- ✓ General Components
- ✓ Lifting Accessories
- ✓ Lifting Appliances
- ✓ Loose Lifting Equipment
- ✓ Load Monitoring
- ✓ Load Testing
- ✓ Ropes and Rigging
- ✓ Rigging Lofts



## HEIGHT SAFETY EQUIPMENT AND SERVICES

In addition to the above capabilities, Survitec have extensive knowledge in working at height, both onboard a vessel and ashore. We are a trusted supplier and service provider of some of the highest quality multifunctional fall arrest systems and equipment available in the market today.

- ✓ Personal Protective Equipment (PPE) Inspection
- ✓ Height Safety Equipment Inspection/Maintenance
- ✓ Safety Lines, Ladder Systems
- ✓ Harnesses, Winches, Inertial Reels
- ✓ Personal Recovery
- ✓ Accessories: helmets, ropes, carabiners, etc.
- ✓ Walk to Work SurviKit Bag
- ✓ Product Sales or Hire Solutions

## TOOLING AND HYDRAULICS

Survitec have in-house expertise to supply, service, maintain, and repair a vast range of tools and appliances, as well as provide advice and guidance on a range of health and safety requirements, objectively backed with a through life asset cost visibility and planned maintenance programmes.

- ✓ Electric, Battery and Pneumatic Power Tools
- ✓ Wrenches / Drills / Grinders
- ✓ Pumps / Cylinders / Bolting Equipment
- ✓ PAT testing
- ✓ HAV's Management (possible to achieve Zero claims)
- ✓ Optimal Safe Performance Tools
- ✓ Increase Tool Life
- ✓ Bespoke Tooling Catalogue
- ✓ Correct Tool Supply & Tool Readiness
- ✓ Rigging Lofts



## TECHNICAL SERVICES

Survitec's engineering team offer various non-destructive testing methods and solutions not limited to, Magnetic particle inspection, dye penetrant, ultrasonic testing, and magnetic rope testing. We also offer services on the following:

- ✓ Wire Ropes
- ✓ Master-links & Chains
- ✓ Full Report of Thorough Examinations
- ✓ Suggested Maintenance Plan



## ASSET MANAGEMENT

Survitec uses C-SAM as a total solution for asset management. Our online system allows the customer to overview their entire fleet, search for a certain type of asset or even a specific item within our asset register. The asset management screen allows the user real time access information such as the following:

- ✓ Inspection status
- ✓ Manufacturer information
- ✓ Asset Number / Serial Number
- ✓ Location
- ✓ Testing history
- ✓ Certificate Assess
- ✓ Online Portal with app for easy access

As part of asset management, it's important to know which assets are due for inspection. Our online system provides the customer with an alert for equipment approaching its recommended inspection period providing you time to organise its recertification and peace of mind that your equipment is compliant. And at the touch of a button, the customer can look at a physical copy of the latest signed certification for the selected asset. Unlike many providers, our system allows the customer to print or send unlimited copies for free. C-SAM is also available as a mobile application to allow customers to access their assets information anywhere, anytime.



## OUR QUALIFICATIONS

Our engineers are trained to the highest standards and have prerequisite industry qualifications and follow strictly MCA MGN 332 (M+F), (LOLER 98), (PUWER 98), ILO Convention No. 152 and SOLAS. Members of LEEA Lifting Equipment and Examiners Association.

Additionally, through our global service and distribution centres, we have the resources to deliver a comprehensive package of lifting equipment, service, support and inspection services. We go to great lengths to ensure we understand your needs and requirements, before delivering the best possible solution.

## WORKING IN PARTNERSHIP

Survitec is an authorised distributor for some of the world's leading brands.



# ROPE

## 12 STRAND DYNEEMA® UHMWPE SK78

- Made from Dyneema® for the highest level in tensile strength per weight ratio
- Stronger than wire ropes with the same diameter
- Heat & uv resistant for longevity
- Low co-efficient of friction
- Reduced operational costs
- Safer to handle than wire rope
- Wet strength is equal to dry strength
- Overbraid option available
- Survitec products conform to international classification regulations



### Ordering Information

| Product Number | Product Name                 |
|----------------|------------------------------|
| FRDYN/2PL12    | 12 Strand Dyneema SK75 12 mm |

Size dependent - see example

### TECHNICAL DATA

| Size | 12 Strands |        | 12 Strand Overbraided |        |
|------|------------|--------|-----------------------|--------|
|      | Weight     | MBL    | Weight                | MBL    |
|      | Kgs/100m   | Tonnes | Kgs/100m              | Tonnes |
| 28   | 45.20      | 69.15  | 71                    | 64.46  |
| 30   | 51.90      | 79.30  | 81                    | 73.54  |
| 32   | 59.00      | 90.26  | 87                    | 78.99  |
| 34   | 63.90      | 93.87  | 92                    | 83.53  |
| 36   | 71.40      | 104.86 | 105                   | 95.33  |
| 38   | 79.90      | 117.30 | 105.5                 | 106.23 |
| 40   | 88.20      | 129.58 | 117.9                 | 118.94 |
| 42   | 97.50      | 143.15 | 129.6                 | 130.74 |
| 44   | 106.70     | 156.72 | 144.9                 | 146.18 |
| 46   | 116.60     | 171.26 | 158.40                | 159.79 |
| 48   | 126.50     | 185.80 | 174.60                | 176.14 |
| 50   | 131.80     | 193.55 | 187.20                | 188.85 |
| 52   | 142.80     | 209.74 | 204.30                | 206.10 |
| 54   | 153.80     | 225.94 | 219.60                | 221.53 |
| 56   | 164.90     | 242.13 | 239.40                | 241.51 |
| 60   | 189.00     | 260.25 | 255.60                | 257.85 |
| 64   | 215.30     | 296.40 | 293.40                | 295.98 |
| 68   | 244.10     | 336.16 | 333.00                | 335.93 |
| 72   | 273.00     | 375.92 | 357.00                | 381.33 |
| 76   | 305.00     | 420.02 | 374.40                | 424.91 |
| 80   | 337.10     | 436.82 | 422.40                | 479.38 |
| 84   | 372.20     | 482.40 | 464.00                | 526.59 |
| 88   | 407.40     | 527.99 | 514.40                | 583.79 |
| 92   | 446.30     | 578.34 | 561.60                | 637.36 |
| 96   | 485.10     | 628.69 | 616.00                | 699.10 |

Other sizes are available upon request.

### TECHNICAL DATA

|   |   |
|---|---|
| <b>Material Composition</b>               | Ultra High Modulus Polyethylene (UHMPE) - Dyneema® (SK78) |
| <b>Melting Point</b>                      | 150°C   |
| <b>Specific Gravity</b>                   | 0.97 (floats)   |
| <b>Elongation at Break</b>                | 4-5%  |
| <b>Water Absorption</b>                   | Zero  |
| <b>UV Resistance</b>                      | Good  |
| <b>Abrasion &amp; Chemical Resistance</b> | Excellent   |



# NUTECH-PLUS 12X1 STRAND

- Rope wet strength equal to its dry strength
- Made from high tenacity polypropylene with outer yarns alternating with polyester
- Excellent resistance to frictional heat damage
- Remains flexible and easy to splice in use
- Roundline construction for better handling on winches
- Also available in 12x2 construction on request
- Strong and easy to handle



## Ordering Information

| TECHNICAL DATA              |   |
|-----------------------------|---|
| <b>Material Composition</b> | Approximately 20% Polyester / 80% Polypropylene                 |
| <b>Melting Point</b>        | 165 °C  |
| <b>Specific Gravity</b>     | 0.99 - Permanent flotation in water                             |
| <b>Elongation at Break</b>  | Approximately 16%   |
| <b>Water Absorption</b>     | Does not absorb water   |
| <b>UV Resistance</b>        | Fully UV stabilised   |
| <b>Chemical Resistance</b>  | Excellent chemical resistance except in the presence of alkalis |

| Product Number      | Product Name           |
|---------------------|------------------------|
| FRSUST12SX1/72/200B | 72 mm Nutech-Plus 12x1 |

Size dependent - see example

## TECHNICAL DATA

| SIZE                 |               | WEIGHT 220M (KG) | BREAKING LOAD (T) | BREAKING (kN) |
|----------------------|---------------|------------------|-------------------|---------------|
| Circumference (inch) | Diameter (mm) |                  |                   |               |
| 4 1/2                | 36            | 116.4            | 20.8              | 204           |
| 5                    | 40            | 158.8            | 30.2              | 296           |
| 5 1/2                | 44            | 201.3            | 36.5              | 358           |
| 6                    | 48            | 233.2            | 43.0              | 422           |
| 6 1/2                | 52            | 277.2            | 50.5              | 495           |
| 7                    | 56            | 319.0            | 58.0              | 569           |
| 7 1/2                | 60            | 360.8            | 66.0              | 647           |
| 8                    | 64            | 413.6            | 75.0              | 736           |
| 8 1/2                | 68            | 468.6            | 84.5              | 829           |
| 9                    | 72            | 521.4            | 94.5              | 927           |
| 9 1/2                | 76            | 574.2            | 103.0             | 1015          |
| 10                   | 80            | 649.0            | 116.0             | 1137          |
| 11                   | 88            | 774.4            | 139.0             | 1363          |
| 12                   | 96            | 914.4            | 165.0             | 1618          |
| 13                   | 104           | 1082.4           | 193.0             | 1893          |

# NUTECH 12X2 STRAND

- Made from high strength co-polymer
- 12 x 2 strand for superior strength and better winch performance than 8 strand ropes
- Flexible and easy to handle
- Excellent abrasion resistance due to rounder profile
- Torque-free round construction



## TECHNICAL DATA

|                             |                               |
|-----------------------------|-------------------------------|
| <b>Material Composition</b> | Mixed polyolefin (co-polymer) |
| <b>Melting Point</b>        | 165                           |
| <b>Specific Gravity</b>     | 0.91                          |
| <b>Elongation at Break</b>  | 16%                           |
| <b>Water Absorption</b>     | None                          |
| <b>UV Resistance</b>        | Fully UV Stabilised           |
| <b>Chemical Resistance</b>  | Good                          |

## Ordering Information

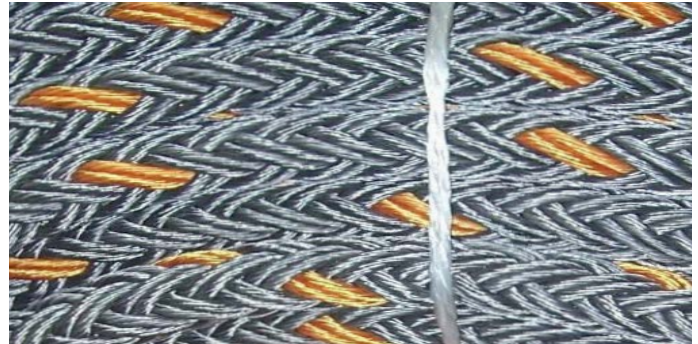
| Product Number | Product Name                              |
|----------------|---|
| FRSUST12S40B   | Nutech 12x2 Strand Rope - 40 mm Diameter  |
| FRSUST12S44B   | Nutech 12x2 Strand Rope - 44 mm Diameter  |
| FRSUST12S48B   | Nutech 12x2 Strand Rope - 48 mm Diameter  |
| FRSUST12S52B   | Nutech 12x2 Strand Rope - 52 mm Diameter  |
| FRSUST12S56B   | Nutech 12x2 Strand Rope - 56 mm Diameter  |
| FRSUST12S60B   | Nutech 12x2 Strand Rope - 60 mm Diameter  |
| FRSUST12S64B   | Nutech 12x2 Strand Rope - 64 mm Diameter  |
| FRSUST12S68B   | Nutech 12x2 Strand Rope - 68 mm Diameter  |
| FRSUST12S72B   | Nutech 12x2 Strand Rope - 72 mm Diameter  |
| FRSUST12S76B   | Nutech 12x2 Strand Rope - 76 mm Diameter  |
| FRSUST12S80B   | Nutech 12x2 Strand Rope - 80 mm Diameter  |
| FRSUST12S84B   | Nutech 12x2 Strand Rope - 84 mm Diameter  |
| FRSUST12S88B   | Nutech 12x2 Strand Rope - 88 mm Diameter  |
| FRSUST12S96B   | Nutech 12x2 Strand Rope - 96 mm Diameter  |
| FRSUST12S104B  | Nutech 12x2 Strand Rope - 104 mm Diameter |
| FRSUST12S112B  | Nutech 12x2 Strand Rope - 112 mm Diameter |
| FRSUST12S120B  | Nutech 12x2 Strand Rope - 120 mm Diameter |
| FRSUST12S128B  | Nutech 12x2 Strand Rope - 128 mm Diameter |
| FRSUST12S136B  | Nutech 12x2 Strand Rope - 136 mm Diameter |
| FRSUST12S144B  | Nutech 12x2 Strand Rope - 144 mm Diameter |

## TECHNICAL DATA

| Size (mm) | Weight/220 m (kgs) | MBL (T) |
|-----------|--------------------|---------|
| 56        | 316.8              | 55.0    |
| 60        | 365.2              | 61.6    |
| 64        | 413.6              | 70.4    |
| 68        | 470.8              | 79.7    |
| 72        | 523.6              | 89.1    |
| 80        | 649.0              | 108.3   |
| 88        | 787.6              | 127.6   |
| 96        | 935.0              | 150.7   |

# SILVER 12X2 STRAND

- Made from high tenacity polypropylene with outer yarns alternating with polyester
- 12x2 strand with central core to resist crushing and to retain diameter
- Rope wet strength equal to its dry strength
- Excellent resistance to frictional heat damage
- Remains flexible and easy to splice in use
- Permanent flotation in water



## Ordering Information

| TECHNICAL DATA              |   |
|-----------------------------|---|
| <b>Material Composition</b> | 20% Polyester / 80% Polypropylene                               |
| <b>Melting Point</b>        | 165°C   |
| <b>Specific Gravity</b>     | 0.99 (floating)   |
| <b>Elongation at Break</b>  | Approx 12%  |
| <b>Water Absorption</b>     | Maximum 0.5%  |
| <b>UV Resistance</b>        | Fully UV stabilised   |
| <b>Chemical Resistance</b>  | Excellent chemical resistance except in the presence of alkalis |

| Product Number | Product Name                             |
|----------------|--|
| FRSUPP12X236SI | Silver 12x2 Strand Rope - 36 mm Diameter |
| FRSUPP12X238SI | Silver 12x2 Strand Rope - 38 mm Diameter |
| FRSUPP12X240SI | Silver 12x2 Strand Rope - 40 mm Diameter |
| FRSUPP12X244SI | Silver 12x2 Strand Rope - 44 mm Diameter |
| FRSUPP12X248SI | Silver 12x2 Strand Rope - 48 mm Diameter |
| FRSUPP12X252SI | Silver 12x2 Strand Rope - 52 mm Diameter |
| FRSUPP12X256SI | Silver 12x2 Strand Rope - 56 mm Diameter |
| FRSUPP12X260SI | Silver 12x2 Strand Rope - 60 mm Diameter |
| FRSUPP12X264SI | Silver 12x2 Strand Rope - 64 mm Diameter |
| FRSUPP12X268SI | Silver 12x2 Strand Rope - 68 mm Diameter |
| FRSUPP12X272SI | Silver 12x2 Strand Rope - 72 mm Diameter |

## TECHNICAL DATA

| SIZE                 |               | 220M (kg) | BREAKING LOAD (T) | BREAKING LOAD (kN) |
|----------------------|---------------|-----------|-------------------|--------------------|
| Circumference (inch) | Diameter (mm) |           |                   |                    |
| 4 ½                  | 36            | 137.70    | 26.70             | 261.93             |
| 4 ¾                  | 38            | 153.64    | 29.52             | 260.16             |
| 5                    | 40            | 177.00    | 32.50             | 318.83             |
| 5 ½                  | 44            | 215.00    | 38.80             | 380.63             |
| 6                    | 48            | 256.00    | 45.90             | 450.28             |
| 6 ½                  | 52            | 303.00    | 53.50             | 524.84             |
| 7                    | 56            | 349.00    | 61.40             | 602.33             |
| 7 ½                  | 60            | 402.00    | 69.70             | 683.76             |
| 8                    | 64            | 455.00    | 78.70             | 772.04             |
| 8 ½                  | 68            | 518.00    | 90.0              | 882.90             |
| 9                    | 72            | 576.00    | 98.00             | 961.38             |



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We are increasingly providing our clients with enhanced services as they look for support in reducing the complexity and headache of safety asset management. My own vision, and the vision of our cruise team, is to make safety asset management simple, and to set a new standard for safety asset reliability.”



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