Base Load Power Hub (BLPH)

ALL EQUIPMENT DATA SHEETS – FIREFIGHTING AND SAFETY EQUIPMENT

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Rev.	Date	Description	Prepared	Reviewed	Approved
Dräger					

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Revision / Change Log

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1 INTRODUCTION

1.1 PROJECT OVERVIEW

Crosswind, a Shell and Eneco joint venture, was awarded the tender to develop the offshore Hollandse Kust Noord (HKN) wind farm, located 18.5km off the coast of Netherlands near the town of Egmond aan Zee. The consortium plans to have HKN operational in 2023 with an installed capacity of 759MW generating at least 3.3TWh per year. This is sufficient renewable power to supply more than 1 million Dutch households with green electricity.

Offshore wind farms produce intermittent electricity and balancing these dips and peaks and integrating this electricity into the national energy system requires new technologies. For this reason, the offshore wind farm will include several new technologies that could be implemented at full-scale in the future. The new technologies being explored include a floating solar park, a short-duration battery storage as well as long-term storage via green hydrogen produced by water electrolysis and subsequently consumed in a fuel cell. The combination of these individual measures, herein referred to as the Base Load Power Hub (BLPH) will ensure a continuous power supply regardless of the wind situation.

1.1.1 Project Location

The Hollandse Kust Noord (HKN) wind farm is located 18.5km off the coast of the Netherlands near the town of Egmond aan Zee.

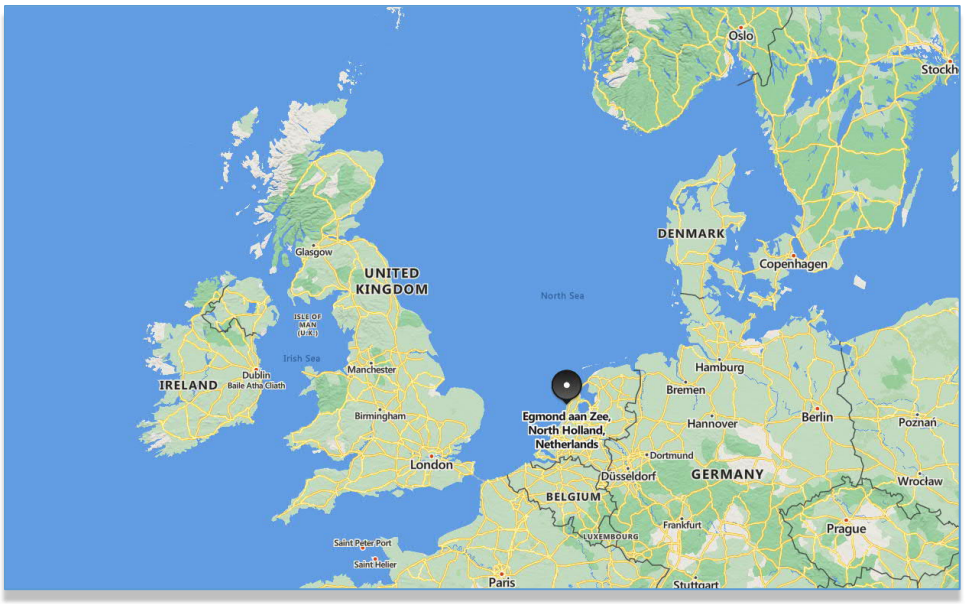


Figure 1 HOLLANDSE KUST NOORD WIND PARK Location Map



Figure 2 - Wind Park Details

The wind farm will consist of No. 69 x 11.5MW wind turbine generators each to be installed on a dedicated monopile structure. A 70th monopile located on coordinates E 590719.1, N 5841602.3 is reserved for installing the platform accommodating the BLPH. The monopile structure was designed and installed by Van Oord Offshore Wind (VooW) and therefore not part of the BLPH scope.

1.1.2 Project Concept

All components included in the BLPH will be integrated onshore on a topsides and installed in an offshore location within the boundaries of the HKN wind farm. At its simplest, the BLPH will store energy during periods of high electricity generation from renewable sources (a wind turbine generator and the floating solar PV farm) and release it during periods of low generation. In practice. It is expected that the energy stored will supplement generation from renewable sources to ensure that at least 1.0MW of power is exported to the electrical grid regardless of wind/solar availability.

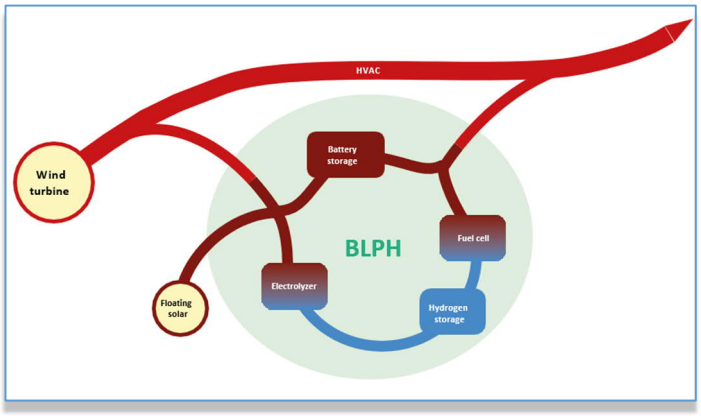


Figure 3 – BLPH Concept

Electricity in the BLPH will be stored in the form of electrons in a battery energy storage system (BESS) as well as converted into green hydrogen via water electrolysis. When the power output from the connecting wind turbine drops to below 1 MWe, the BLPH will return its stored energy to supplement the remaining power output. This will be by discharging the BESS, while stored hydrogen will be converted back into electricity using a fuel cell to extend the discharge duration.

The purpose of the BLPH s to function as a testbed for the integration of energy storage technologies with renewable generation. It is expected that equipment installed on the BLPH will operate as Normally Unmanned Installation for at least two (2) years with no or minimal maintenance and it will have its own independent control room with the ability to communicate with Crosswind's control room.

2 DOCUMENT SCOPE

Product Datasheets

2.1 REFERENCES

Doc. No.	Description
1724001660-SAF-DA-00003	CABINETS GENERAL ARRANGEMENTS DRAWINGS-FIREFIGHTING AND SAFETY EQUIPMENT
1724001660-SAF-LIS-00009	VENDOR ASSET AND TAG REGISTER

Table 1 - Reference Documents

2.2 DEFINITIONS AND ABBREVIATIONS

COMPANY or Client (CPY):	Crosswind
CONTRACTOR (CTR):	ROSETTI MARINO S.p.A.
PROJECT:	HOLLANDSE KUST NOORD WIND PARK Project

Table 2 - Definitions and Abbreviations

3 LIFERAFT

YLB-079001

YLB-079002

Liferaft - VIKING, 10DK+, throw overboard (10 pers.)

Item no.: L010D033

High-quality and low-maintenance SOLAS/MED approved liferaft solution for automatic or manual throw overboard launch from vessels of all types.

- High durability with an expected lifespan of 15-20 years
- Can be deployed at temperatures as low as -30˚C
- Exceptionally stable even in rough seas
- Two individual buoyancy chambers, each carrying capacity weight



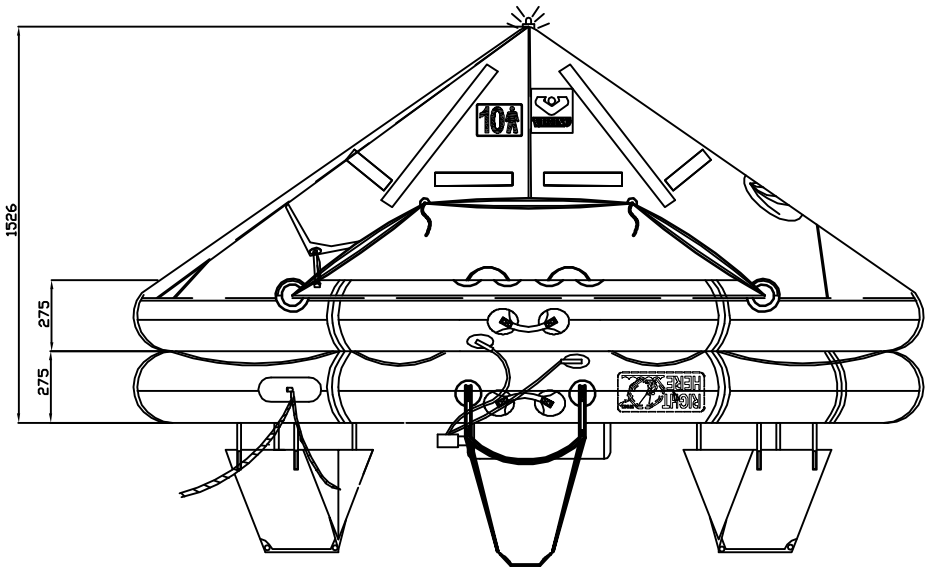
Throw overboard liferafts are mainly used on commercial vessel, passenger ships or offshore assets. The liferaft is stowed in a rigid fibreglass container and approved by DNV in accordance with SOLAS/MED requirements and relevant flag state approvals.

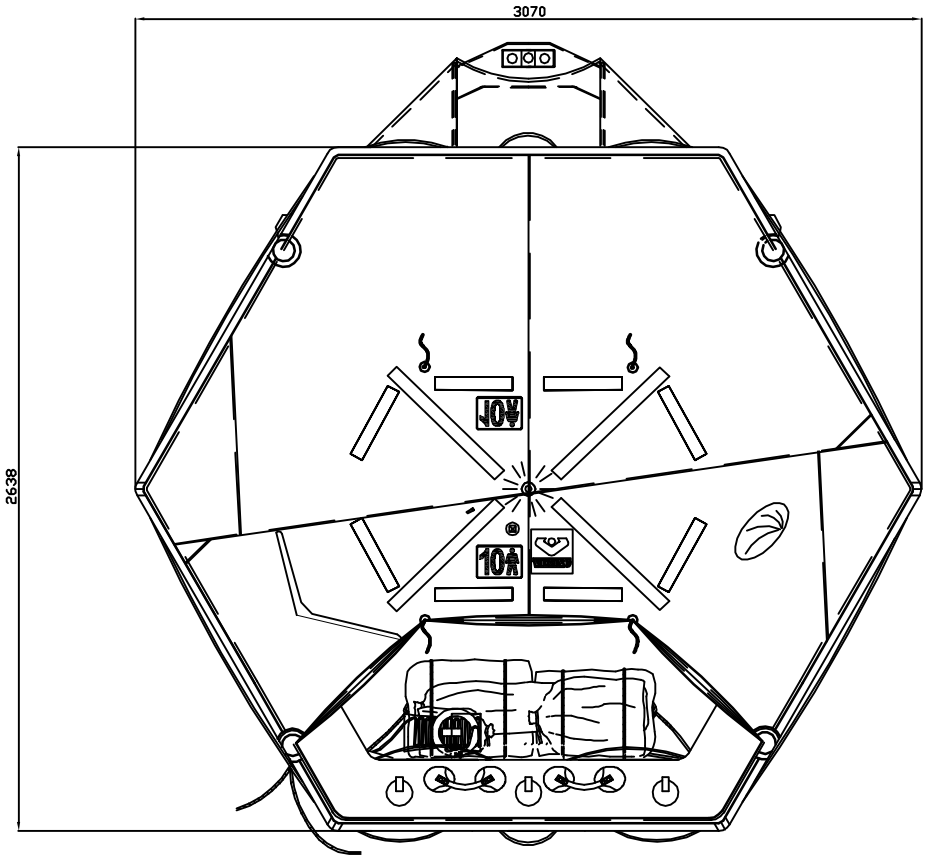
VIKING has been manufacturing, supplying and servicing liferafts of the throw overboard type since the company was founded in 1960. With thousands of lives saved over the years, this product has earned its reputation as a true essential when it comes to safety at sea.

The VIKING throw overboard liferaft comes in sizes from 4 – 35 persons and is available with emergency pack SOLAS A or B. It can be sourced directly through our shop or as 'liferaft exchange' with a Shipowner and Offshore Safety Agreement.

The following flag states are covered by Multi EU: Belgium (BE), Bulgaria (BG), Croatia (HR), Cyprus (CY), Estonia (EE), Gibraltar (GI), Hungary (HU), Ireland (IE), Isle of Man (IM), Latvia (LV), Lithuania (LT), Luxemburg (LU), Malta (MT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Spain (ES) and Switzerland (CH).

Is available with either 12 months service interval or 30 months extended service interval (S30 variant covers fewer flag states: Belgium (BE), Croatia (HR), Cyprus (CY), Estonia (EE), Gibraltar (GI), Isle of Man (IM), Latvia (LV), Lithuania (LT), Luxemburg (LU), Malta (MT), Portugal (PT), Slovenia (SI), Spain (ES) and Switzerland (CH).





POS:	Qty.	Description	Material No:

If the product is requested to be manufactured differently, this MUST be approved by VIKING LIFE-SAVING EQUIPMENT A/S and a specification of change must be filled in if the alteration is approved. Unless otherwise specified the product must always be clearly labelled with Viking part no., manufacturer ID and manufacturing year.

REVISION NO:	REVISION DESCRIPTION:	REVISION DATE:	APPROVAL INITIALS:
01	–	–	–

MATERIAL NO:	STATUS:	UNITS:	CHECK DATE/INITIALS:
–	–	mm	23.10.14 ASR

BASIC MATERIAL:	SURFACE TREATMENT:	SHEETSIZE:	SCALE:	SHEET NO:	DRAWN DATE/INITIALS:
–	–	A3	1:20	–	22.10.14 CLO

VIKING LIFE-SAVING EQUIPMENT A/S
Sødding Ringvej 13, DK-6710 Esbjerg V
Tel.: +45 7611 8100
Fax.: +45 7611 8101
E-mail: viking@viking-life.com
Web: www.VIKING-life.com

PROJECTION TYPE: FIRST ANGLE PROJECTION

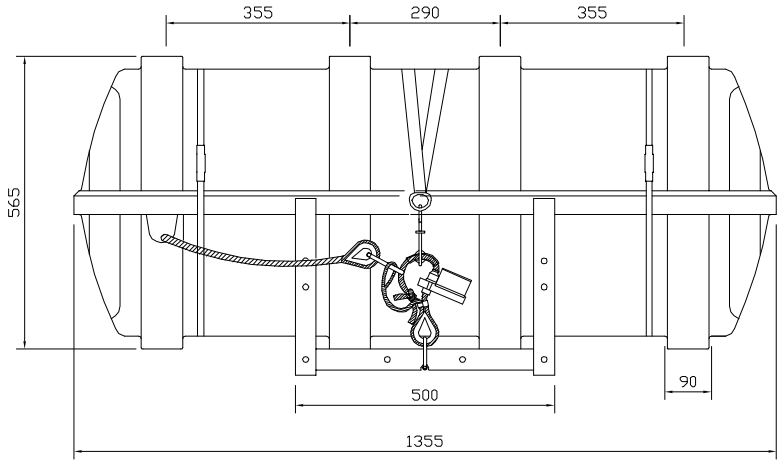
GENERAL TOLERANCE: –

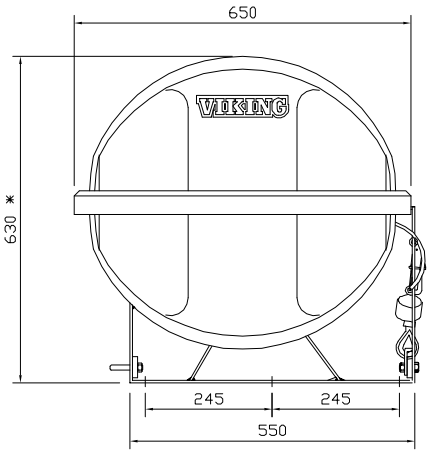
DESCRIPTION:

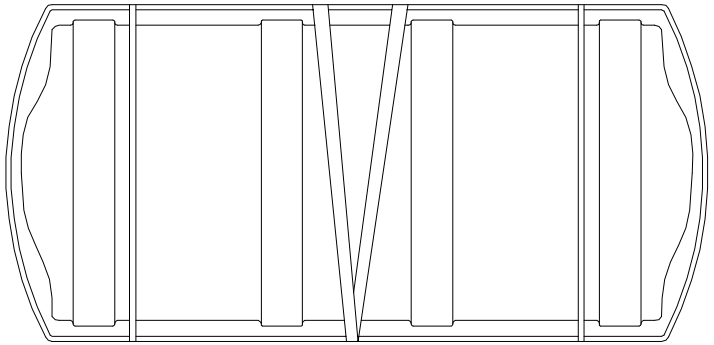
VIKING LIFE RAFT TYPE 10 DK+ EXTRA WIDE OPENING

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DRAWING NO.: 42003845-000







Mrk.	Tekst	Part. No.	Drawing No.	Material
1	Aluminium cradle	015–0035	300–570	ALU
1	Stainless steel cradle	015–0060	300–680	AISI316
1	Hot galvanized cradle	015–0017	300–045	Fe 360

Description of change

POS:	Qty.	Description	Material No:

If the product is requested to be manufactured differently, this MUST be approved by VIKING LIFE–SAVING EQUIPMENT A/S and a specification of change must be filled in if the alteration is approved. Unless otherwise specified the product must always be clearly labelled with Viking part no., manufacturer ID and manufacturing year.

REVISION NO:	REVISION DESCRIPTION:	REVISION DATE:	APPROVAL INITIALS:
03	Change bursting band to plastic strap	27.01.14	27.01.14

MATERIAL NO:	STATUS:	UNITS:	CHECK DATE/INITIALS:
1005365	–	mm	27.01.14/ DW

BASIC MATERIAL:	SURFACE TREATMENT:	SHEETSIZE:	SCALE:	SHEET NO:	DRAWN DATE/INITIALS:
–	–	A3	–	–	27.01.14/ DW

VIKING LIFE–SAVING EQUIPMENT A/S
Sødding Ringvej 13, DK–6710 Esbjerg V
Tel.: +45 7611 8100
Fax.: +45 7611 8101
E–mail: viking@viking–life.com
Web: www.VIKING–life.com

PROJECTION TYPE: FIRST ANGLE PROJECTION

GENERAL TOLERANCE: –

DESCRIPTION:
Sales Specification Container 016–6100/G
10–12 DK A+B, 20–25 DKR
W/Line 016–0322A/B/D/–0376/–0484

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DRAWING NO.: 42000140

Cradle - including lashing for 10-16DK+, galvanized

Item no.: 1000013

A standard deck cradle designed to meet the requirements for stowage of your VIKING liferaft in a marine and offshore environment. A proven structure that has been used by VIKING for decades.



The cradle should be mounted by bolting to the hull foundation support.

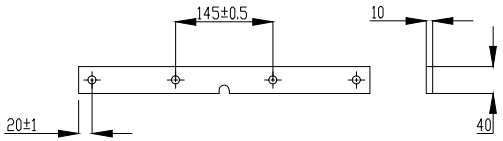
Bolt, washers and nuts will not be supplied by VIKING as they may differ in length depending on the support foundation onboard. Pre-drilled foundation holes have a diameter of Ø12.

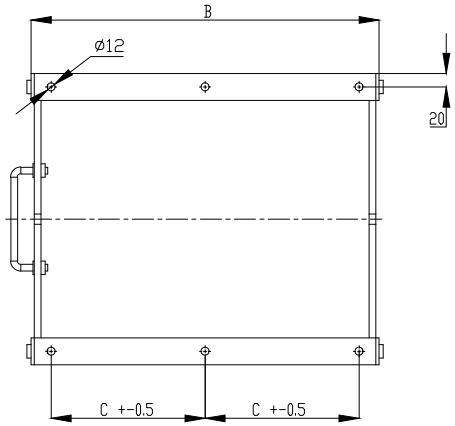
Cradle fits the following liferaft sizes:

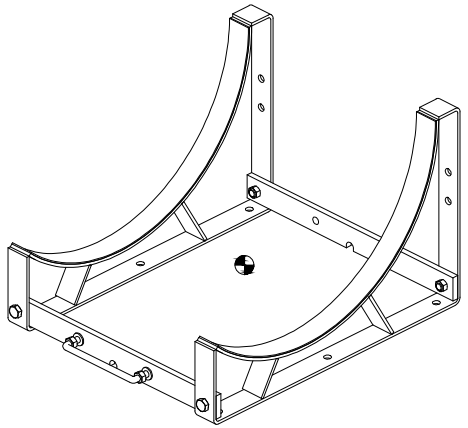
- 10DK+
- 12DK+
- 16DK+

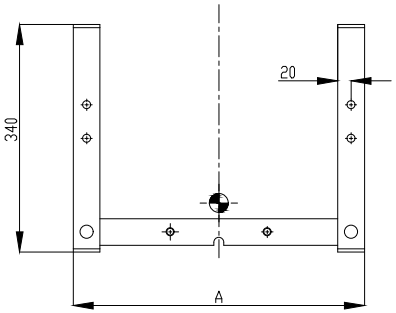
Specifications:

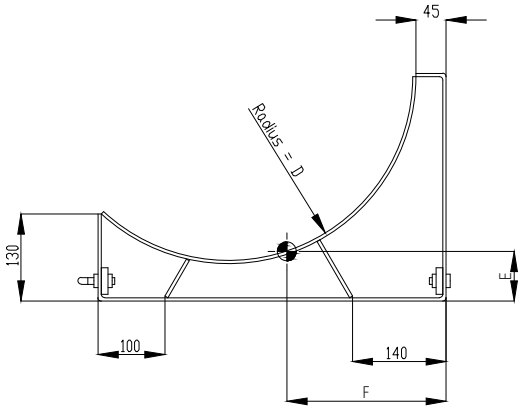
- **Material:** Black steel (S235JR/EN10025/SS400/TIS1479)
- **Dimensions:** H 340 x W 500 x D 550 mm
- **Weight:** 9.5 kg
- **Surface treatment:** Hot dip galvanized class A JF, DS/ISO 1462
- **Welding:** According to DS/EN 30042 class C
- **Lashing for fixing of liferaft:** Included











Rack part no.	Cpl. part no. w. Lashing	Cont. type	A	B	C	D	E	F	Weight(kg.)
1015846	1000012	4 - 6 - 8 DK	435	520	230	275	74	238	10
1015847	1000013	10 - 12 - 16 DK	500	550	245	310	73	254	10
1014758	1000053	20 - 25 DK	545	620	280	360	70.5	288	11
1017688	1015866	IMPAX con.	650	620	280	360	68	289	11

Center of Gravity

All holes Ø 12

Measures without tollerence. +-3 mm

material: S235JR - EN 10025 /SS400 - TIS 1479

Surface: Hot galvanized class A JF. DS/ISO 1461

Sharp edges chamfered

If the product is requested to be manufactured differently, this MUST be approved by VIKING LIFE-SAVING EQUIPMENT A/S and a specification of change must be filled in if the alteration is approved. Unless otherwise specified the product must always be clearly labeled with Viking part no, manufacturer ID and manufacturing year.

MATERIAL NO	Old DVG No	STATUS	UNITS:	WEIGHT:	CHECK DATE/INIT:
			mm/kg		12-12-2012/DW
BASIC MATERIAL:	SURFACE TREATMENT:		SHEETSIZE:	SCALE:	SHEET NO:	DRAWN DATE/INIT:
S235JR	Hot Galvanized		A4	15	1/1	12-12-2012/DW

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Tel: +45 7611 0100
Fax: +45 7611 0101
E-mail: vikingliving-life.dk
Web: www.VIKING-life.com

PROJEKTION TYPE: FIRST ANGLE PROJECTION

GENEREL TOLERANCE:

DESCRIPTION: GA Cradle for DK raft

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CAD NO:	Drawing NO:	REV NO:
42003378	42003378	0

HRU, Hammar® H20

Item no.: 1010315

For extra safety, our liferaft containers can be fitted with a hydrostatic (water pressure) release unit, or HRU, enabling the liferaft to deploy and surface automatically when a vessel is sinking.

- Extra safety, liferaft is deployed automatically it the boat is sinking
- Safe, reliable and simple design with easy installation
- No servicing required (unit to be replaced every 2 years)



The Hammar H20 is designed to be safe and reliable in all extreme conditions that you and your vessel might meet on the oceans. Should the vessel sink, the HRU is activated by increasing water pressure and will automatically release the liferaft.

The H20 is the best-selling hydrostatic release unit in the world and it has been saving lives on the oceans for more than 30 years, earning more worldwide approvals than any other unit.

The construction of glass fiber reinforced nylon prevents the Hammar H20 from corroding, which means that no annual service, maintenance or spare parts are needed. You simply install a new one every two years and dispose of the old one. With the environment in mind, the old unit is 97% reusable.

**Mounting bracket and liferaft are sold separately!*

4 LIFEBUOY (THROWING LINE 85 MTR WITH QUOIT + COMET MOB LIGHT AND SMOKE SIGNAL)

YLB-079003 A
YLB-079003 B
YLB-079003 C
YLB-079003 D
YLB-079003 E
YLB-079003 F
YLB-079003 G
YLB-079003 H
YLB-079003 I
YLB-079003 J
YLB-079003 K
YLB-079003 L
YLB-079003 M

Included in Cabinet LIFEBOUY Throwing Line 85 Mtr with Quoit

Included in Cabinet LIFEBOUY Comet MOB Light and smoke signal

survitec

PERRYBUOY LIFEBUOY

4 and 2.5KG solution



Lifebuoy marking is mandatory for ships, with options to label them with the vessel's name and port of registry using 2" self-adhesive black letters or a transfer. The Perrybuoy, fitted with MED approved high-intensity retro reflective tape and a 10mm high-density polyethylene grabline, ensures visibility and durability even in harsh conditions.

BENEFITS:

- ✓ The 30-inch, 4 kg, and 2.5 kg Orange Perrybuoys are MED approved
- ✓ The 4 kg Orange Perrybuoy meets the weight requirement to deploy the Man Overboard smoke and light unit from its bracket on the bridge wing of a vessel
- ✓ The 30-inch, 4 kg Orange Perrybuoy is suitable for use at sea or on land
- ✓ The 30-inch, 2.5 kg Orange Perrybuoy is suitable for use in any area of the ship except the bridge wing, and for land-based applications



"Durable grabline solution even for the most hazardous marine environments"

TRUSTED TO
PROTECT LIVES

PERRYBUOY LIFEBUOY

TECHNICAL DATA

PERRYBUOY LIFEBUOY	
Maximum Installation Height	60m
Outer Diameter	751 mm +/-2%
Inner Diameter	450 mm +/-2%
Reflective Tape	Yes
Elliptical Section	Major Axis 150 +/- 7 mm Minor Axis 99 +/- 7 mm

APPROVALS & ACCREDITATIONS

✓ Approved in compliance with MED

ORDERING INFORMATION

Code	Product Name
751017	30" inch 2.5 kg Perrybuoy
751027	30" inch 4 kg Perrybuoy

ACCESSORIES

Code	Product Name
FLL170C	L170 Lifebuoy Light SOLAS/MED/USCG App
908006	Crewsaver Hamble Horseshoe Buoy Set
902917	Galvanised Y Bracket
7000770	Perryline 30m 8mm Line SOLAS for Vessel Use
606208	Floating Lifeline 30m
900790	Man Overboard MK9 PW

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Comet

WESCOM Signal & Rescue



Light and Smoke Signal

Art No. 9181600

The Light and Smoke Lifebuoy Marker produces dense orange smoke for 15 minutes and features two self contained, inversion switched, LED lights which far exceed SOLAS requirements for output and duration.

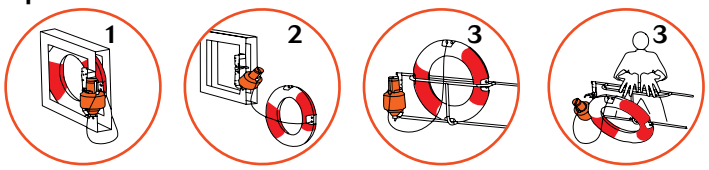
Ships are required to carry 2 markers, one mounted on each bridge wing with the brackets supplied and attached by line to a 4kg Lifebuoy. The signal is used to mark the position of a man overboard by day or night. It can be automatically deployed by releasing the attached lifebuoy, or manually activated.

The Comet Smoke Signal Art. No 9181700 is identical, except that it does not feature the lighting system, so is an orange smoke daytime marker only.

Application

- Day and night signal attached to 4kg lifebuoy and used in an emergency to mark the position of man overboard.
- Provides 15 minutes of dense orange smoke.
- Far exceeds SOLAS requirements of 2 hours at 2 candela for light output and duration.
- Safe to use on petrol or oil covered water.
- Lithium batteries sealed for life - no annual replacement.
- Screw fit, inversion switched, LED light units.
- Automatic or manual deployment.
- Universal stainless steel mounting bracket. Usually mounted on a ships bridge wing
- Approved mounting height: 56m - but manufacturer tested to survive 100m drop into water. (SOLAS only requires 30m).
- Ideal for use on ships or rigs with high freeboard.

Operation



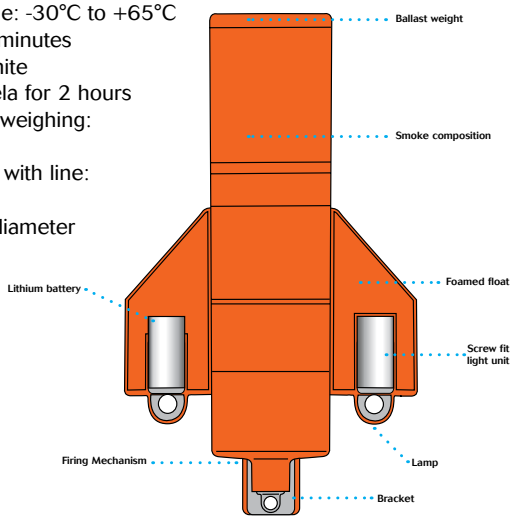
1. Signal and Lifebuoy mounted on bridge wing in ready to fire position.
2. Release locking pin and lifebuoy falls, automatically deploying marker.
3. Alternatively, manually throw lifebuoy overboard.

Packing & Transport Information

- 2 x signals in 1 fibreboard box
- Max. Gross Weight: 9.5 kg (20.94 lb.) per box
- Max. Net Weight: 7.7 kg (17 lb.)
- Measurements of fibreboard box: 36 x 27 x 40 cm (14.2 x 10.6 x 15.8 in)
- Max. Net Explosive Content per box: 2.574kg (5.67 lb.)
- Hazard class 1.4S UN 0507
- Proper shipping name: Signals, Smoke
- Other information: Passenger and cargo aircraft

Specifications

- Height: 375mm (14.76 in)
- Diameter: 183mm (7.20 in)
- Weight: 3.3kg (7.27 lb.)
- Weight – including bracket and angles: 3.85kg (8.5 lb.)
- Net Explosive Content: 1.287kg (2.84 lb.)
- Lamps (bulbs): 2 x 3.6v 2.0A
- Temperature range: -30°C to +65°C
- Burning time: 15 minutes
- Colour of light: white
- Duration: 2 candela for 2 hours
- Use with lifebuoy weighing: 4.0kg (8.82 lb.)
- Attach to lifebuoy with line: 4m (13ft) long, 9.5mm (0.37 in) diameter



Storage

This compact unit is ideally stored in good magazine conditions in an upright position, mounted to its stainless steel bracket in our original packaging. Onboard vessel: Two units are normally required to be carried. Mounted inverted and attached to a Lifebuoy. Usually positioned on each bridge wing and need a clear, uninterrupted drop into the water.

Approvals

Conforms to SOLAS 74 as amended. IMO Resolution MSC 81 (70) part 1. MED: Light & Smoke Signal - BGV 422.012, Smoke Signal - BGV 422.011. BAM-P1-0596, 0589-P1-0619.

WARNING

- Produces dense orange smoke - do not inhale.
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date

DISPOSAL

- Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website **www.comet-marine.com**

Throwing line 30 mtr with quoit

Productcode: 230270

Orange floating throwing line 30mtr with attached floating quoit.



GRP storage cabinet: DMO-131

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.

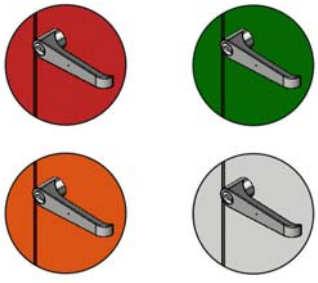


Room to store
- 2.5 kgs or 4.5 kgs lifebuoy
- throwing line
- safety light

Optional
- lettering

TECHNICAL SPECIFICATIONS

Dimensions	125 x 900 x 900 mm (DxWxH)
Aperture dimensions	125 x 900 x 900 mm (DxWxH)
Angle of door opening	100°
Weight	27,5 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	Stainless steel
Door handle	SS 316
Hinges	SS 316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-131
To store lifebuoy

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5 FIRST AID KIT

YSE-079001 A
YSE-079001 B
YSE-079001 C

DATA SHEET

Code/cod.	**CAV401**
Product:	MEDIC 2 Container Empty



Technical features

Dimensions:
mm. 395x135x270 mm
weight: 0.50 kg

Description:
Case made of shockproof polypropylene, equipped with wall mounting bracket, carrying handle and closure with 2 rotating clips.

Colors:
CAV412 green
CAV283 white
CAV410 green crystal cover

Dräger Nederland BV
Marine & Offshore
Beurtschipperstraat 1
NL-3194 DK Hoogvliet-RT
Telephone :+31(0)10-2952710
Web: www.draeger-mo.nl
E-mail: service-mo.sd.nl@draeger.com

Certificate RB20: First Aid Kit Type Snogg

Date *Date*	Validity[months] *Validity [months]*	Vessel / Installation *Ship Name / Installation*	IMO/ENI	Class	Certificate No *Certificate No.*
21-11-2024	**12**	**Baseload Power Hub**	**PR.23.034.0**	**DNV/GL**	**CS-24004010**

This first aid kit has been inspected on the listed content.

The results of the inspections must be considered a recording of the contents of first aid kit at that moment.

Description / *Description*	Result / *Result*
Barcode of the first aid kit	FC4566079
General condition of the first aid kit	New delivery

At the moment of inspection, the first aid kit at least contained the following items with a valid date

Qty	Description
1 pcs.	First aid kit KS4 green (Toolsan/MEDIC2) 39.5x27x13.5cm
1 pcs.	Sticker Cross green/white 15X15cm
1 pcs.	Household scissors big eye chrome 17cm
2 pcs.	Gloves nitrile L in sealed bag
6 pcs.	Glove plastic
1 pcs.	Emergency (Israeli) bandage 10cm
1 pcs.	Prämeta ligature hose/tourniquet green
1 pcs.	Betadine Povidone Iodine 30ml
1 pcs.	Dutiplast Chlorhexidine in Alcohol 0.5% Cleansing Lotion 30ml
1 pcs.	Klinion hydrophilic gauze compress sterile 5x8.5cm 8lg
1 pcs.	Klinion compress non-woven sterile 10x10cm 4-layer
1 pcs.	Klinion Compress non-woven 4-layer 5x5cm sterile
1 pcs.	Adhesive plaster 5mx2.5cm Silk (55332)
1 pcs	Klinifix cohesive 4mx6cm
1 pcs	Klinifix Cohesive bandage 4mx10cm white
1 pcs	Klinion klinifix cohesive elas. fix.bandage latex-free 4mx8cm
1 pcs	Klinion Quick Bandage Dutch model No. 1 12x12cm sterile
1 pcs.	Klinion Quick Bandage Dutch model No. 2 18x18cm sterile
1 pcs.	Triangular Bandage Non-woven Disposable Single Use
1 pcs.	First Aid Guide
4 pcs.	Sodium Chloride Eyelotion 9mg/ml ampoule 30ml
1 pcs.	Plastic eye cup
1 pcs.	Eye patch + 5 eye compresses

Does the first aid kit conform with the test protocol	**Yes**

Remarks

DRÄGER MARINE & OFFSHORE
SIGNED BY:
P. VAN OUWERKERK

6 SAFETY CABINET 1

YEE-079001 A

GRP storage cabinet: DMO-05

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



Features

Room to store

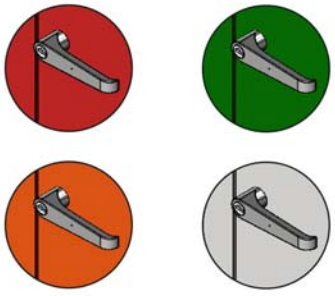
- Fireman's equipment (2 complete sets incl. SCBA)
- Fireman's clothing (4 sets)
- Survival suits (up to 20 pcs depending on size)
- Life jackets (up to 35 pcs depending on type)
- Emergency response team equipment
- Helideck crash equipment (incl. ladder & grab hook)

Options

- Shelves / bulkhead / clothing bar
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lighting (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	1035 x 800 x 2030 (WxDxH)
Aperture dimensions	819 x 800 x 1760 mm (WxDxH)
Angle of door opening	90°
Weight	57,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-05
IP56 rated and Lloyds certified

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7 SAFETY CABINET 2

YEE-079001 B

GRP storage cabinet: DMO-09

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



Features

Room to store

- Fire hydrant cabinet (4 hoses / spray nozzles / spanners)
- Survival suits (up to 20 pcs depending on type)
- Lifejackets (up to 30 pcs depending on type)
- Fireman's clothing (4 sets folded)
- SCBA storage (2 sets + spare cylinder)
- Chemical protection equipment
- Electrical safety kit
- Fall protection equipment / descent units (donut type)

Options

- Shelves
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	821 x 600 x 1277 mm (WxDxH)
Aperture dimensions	647 x 600 x 1039 mm (WxDxH)
Angle of door opening	90°
Weight	30 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-09
IP56 rated and Lloyds ertified

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8 CABINET FOR PORTABLE CO2 EXTINGUISHER

YXC-070001
YXC-070002
YXC-070003

GRP storage cabinet: DMO-35

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



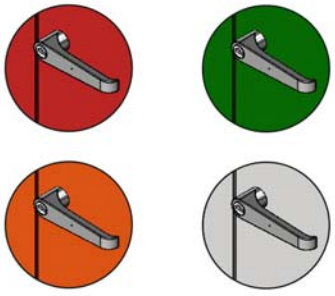
Features

Room to store
- Fire extinguisher (1 pcs DP/F/CO2)
- Survival suit (1 pcs)
- Life jacket (4 pcs inflatables)
- Escape masks (up to 10 pcs depending on type)
- Emergency Escape Breathing Apparatus

Options
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	470 x 250 x 980 mm (WxDxH)
Aperture dimensions	345 x 250 x 836 mm (WxDxH)
Angle of door opening	90°
Weight	12,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-35
IP56 rated and Lloyds certified

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09 RESUSCITATION UNIT & CABINET

YDF-079001

Zoll AED Plus

A cardiac arrest or cardiac fibrillation is always sudden and, at that moment it is necessary to act immediately. Of course, one of the first things one should do is contact professional help. Zoll AED Plus does not only alert you when a transient is needed, also tells you if the heart massage is deep enough and runs at the right motion.



Features
For the victim however, it is of the highest importance that directly first aid is granted. This first aid exists in the base from CPR and rescue breathing: an AED can increase the survival rate of the victim.

Dräger has consciously chosen for the Zoll's AED Plus.

This AED distinguishes itself from other brands
- ignores vibrations and movements of the vessel, making a good analysis
- based on IP55
- makes use of special CPR-D padz; a pressure point mounted to the electrodes , with which the pressure and the pace of the heart massage is controlled
- a good step-by-step-resuscitation guidance with understandable icons and clear voice
- a lifetime of batteries and electrodes of 5 years without maintenance
- the Zoll AED Plus is also the only AED using normal batteries, these are easy to replace and cheap to run the Zoll AED has a standard LCD screen 7 x 3 cm with, optionally, text or ECG-view.

TECHNICAL SPECIFICATIONS

Particle and wateringress	IP-55
Battery life	5 years
Display	LCD display, 70 x 30 mm
Dimensions	133 x 241 x 292 mm
Weight	3.1 kg
Operating temperature	0°C to +50°C
Storage temperature	-30°C to +60°C
Cable length	1.1 m
Recharge time	Less than 10 seconds when using new batteries
Energy level shock	120J-150J-200J
Warranty	7 years
Approvals	UL2601, AAMI DF-39, IEC 601-2-4, EN 60601-1

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GRP storage cabinet: DMO-33

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



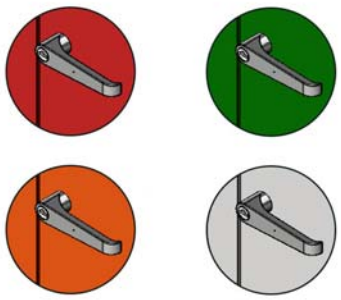
Features

Room to store
- Eyewash bottles
- Safety torches
- Escape masks
- Descent units (donut type)

Options
- Shelve
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	580 x 300 x 595 mm (WxDxH)
Aperture dimensions	439 x 300 x 442 mm (WxDxH)
Angle of door opening	90°
Weight	11 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



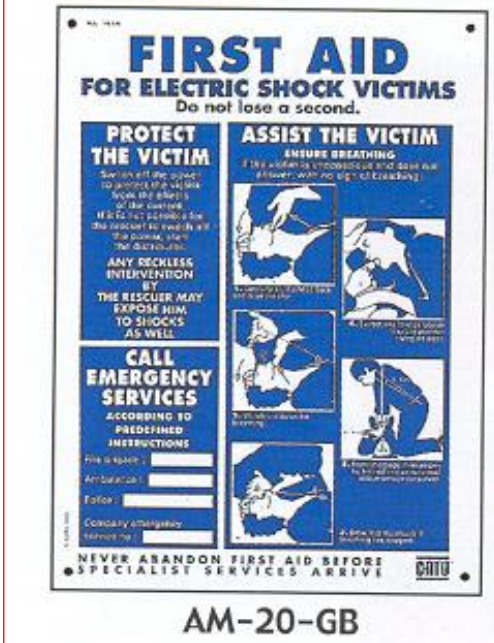
GRP storage cabinet: DMO-33
IP56 rated and Lloyds certified

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10 ELECTRICAL SAFETY UNIT & CABINET

YSE-079002

Specialized Sign « First Aid »
AM-20-GB



FIELD of USE

Specialized sign for substation.

CHARACTERISTICS

- Blue letters on plain aluminium.
- 4 fixing holes Ø 4,5 mm, distance between centres 338 mm x 238 mm.
- Dimensions: 350 x 250 mm.

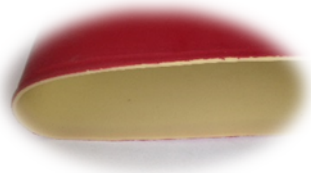
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Telephone : (33) 1 42 31 46 00 - Fax : (33) 1 42 31 46 31

INSULATING GLOVES
CG-05-*-R to CG-40-*-R



NF EN 60903 2003
CEI 60903 : 2002

(*) Add the size :
A = size 8, B = size 9,
C = size 10, D = size 11



FIELD OF USE

Personal protection against electrical shocks for live working from 500 to 36 000V.
These gloves have to be used with leather overgloves, to ensure a mechanical protection.
The use of thin cotton undergloves is recommended for a better comfort and a good hygiene.

CARACTERISTICS

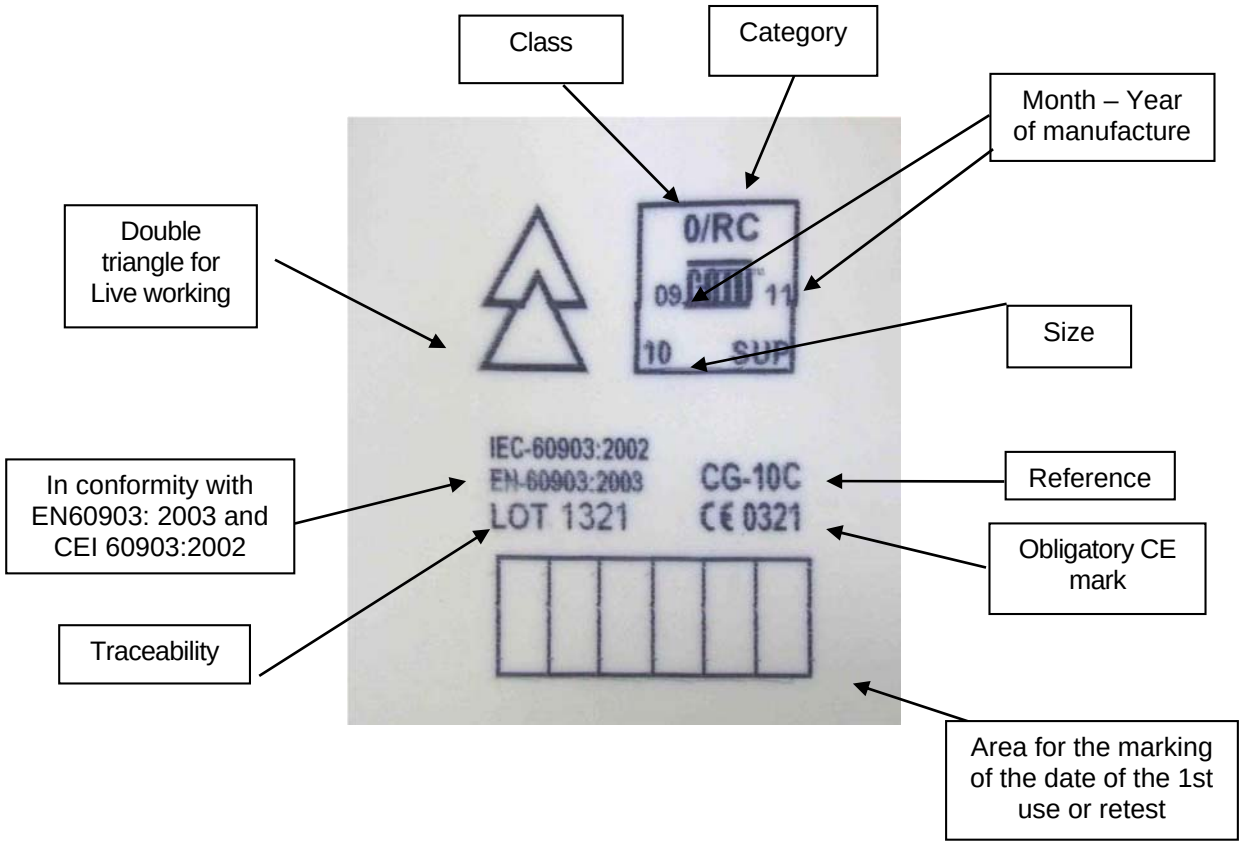
- **Temperature of use : -25°C to +55°C**
- **In conformity with the IEC 60903 : 2002 , EN 60903 : 2003**
- **Insulating gloves from class 00 (500V) to class 4 (36 000V)**
- **Material : natural latex**
- **AZC or RC Category : resistant to acid, ozone and extremely low temperature or acid, oil, ozone and extremely low temperature**
- **Colour : Red for class 00 and 0, Bi-colour for class 1 to 4 (external Red and internal natural)**
- **This shape will ensure good ergonomics and a good sensitivity.**
- **Gloves marking following IEC 60903**
- **With an Instruction for use**
- **Delivered in individual packaging. This packaging provide a UV protection**

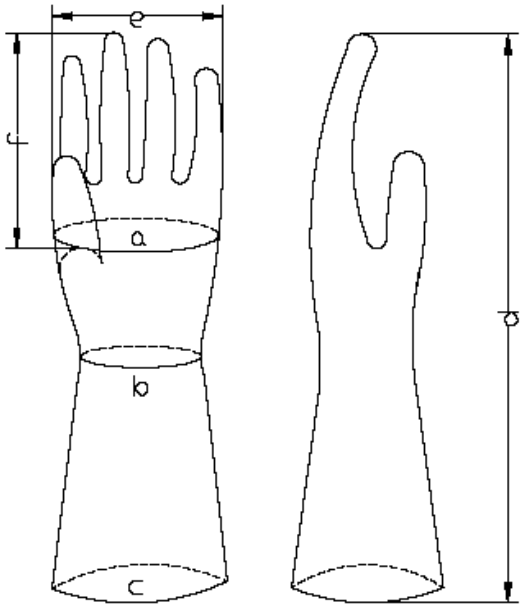
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RANGE			Voltage max		Weight
Reference	**Class**	**Category**	**AC**	**DC**	**(g)**
CG-05-*-R	**00**	**AZC**	**500**	**750**	**90**
CG-10-*-R	**0**	**AZC**	**1 000**	**1 500**	**200**
CG-15-*-R	**1**	**AZC**	**7 500**	**11 250**	**270**
CG-20-*-R	**2**	**RC**	**17 000**	**25 500**	**450**
CG-30-*-R	**3**	**RC**	**26 500**	**39 750**	**560**
CG-40--R**	**4**	**RC**	**36 000**	**54 000**	**800**

(*) Add the size : A = Size 8, B = Size 9, C = Size 10, D = Size 11
(**) Add the size : B = Size 9, C = Size 10, D = Size 11

MARKING EXPLANATION :





DIMENSIONS (mm)

Reference	Size	a	d	Thickness max
CG-05-A-R	8	210	360	1.10
CG-05-B-R	9	235	360	1.10
CG-05-C-R	10	255	360	1.10
CG-05-D-R	11	280	360	1.10
CG-10-A-R	8	210	360	1.60
CG-10-B-R	9	235	360	1.60
CG-10-C-R	10	255	360	1.60
CG-10-D-R	11	280	360	1.60
CG-15-A-R	8	210	360	2.10
CG-15-B-R	9	235	360	2.10
CG-15-C-R	10	255	360	2.10
CG-15-D-R	11	280	360	2.10
CG-20-A-R	8	210	360	2.90
CG-20-B-R	9	235	360	2.90
CG-20-C-R	10	255	360	2.90
CG-20-D-R	11	280	360	2.90
CG-30-A-R	8	210	360	3.50
CG-30-B-R	9	235	360	3.50
CG-30-C-R	10	255	360	3.50
CG-30-D-R	11	280	360	3.50
CG-40-C-R	10	255	410	4.20
CG-40-D-R	11	280	410	4.20

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RECOMMANDATIONS (annex E CEI 60903)

- **Examination before use: Each time before use, both gloves of a pair should be visually inspected and subjected to a manually applied air test, where practicable. If either glove is thought to be unsafe, the pair should not be used and should be returned for testing.**
- **Storage: Gloves should be stored in their container or package. Care should be taken to ensure that gloves are not compressed, folded or stored in proximity to steam pipes, radiators or other sources of artificial heat or exposed to direct sunlight, artificial light or other source of ozone. It is desirable that the ambient temperature be between 10°C and 21°C.**
- **Periodic inspection: For class 00 and O gloves, a check for air leaks and a visual inspection may be consider adequate. However a routine dielectric test may be performed at the owner's request**
- **Class 1, 2, 3 et 4 : no gloves, not even those held in storage, should be used unless they have been tested within a maximum period of six months The tests consist of air inflation to check for air leaks, a visual inspection while pressurized, and then a routine dielectric test, in accordance with IEC60903.**
- **The date of the 1st use, and the controls dates, have to be marked in the area on the gloves.**

ACCESSORIES (Option)



Cotton under-gloves CG-80



Cotton mittens CG-81



Pneumatic gloves tester CG-117



Gloves box CG-35/2



Over-gloves CG-991
For class 1 to 4



Over-gloves CG-981
for class 00 or 0

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TINTED ANTI-UV SAFETY GLASSES MO-11001

EN 166 / EN 172
5-2,5 CATU 1FTKN



Ensure the protection of the sight against the U.V radiations as well as the projections of solid particles during operations on an electrical installation.

TECHNICAL FEATURES

- Material: grey tinted polycarbonate.
- Complies with the EN 166 standard:
  - Optical class 1;
  - Impact resistance level at extreme temperatures: FT (Low impact energy at 45 m/s, at extreme temperatures -5°C to 55°C);
  - Anti-scratch treatment: K;
  - Anti-fogging treatment: N.

WEIGHT

- Approximative weight: 25 g.

COMPOSITION

- Supplied in a soft microfiber pouch.

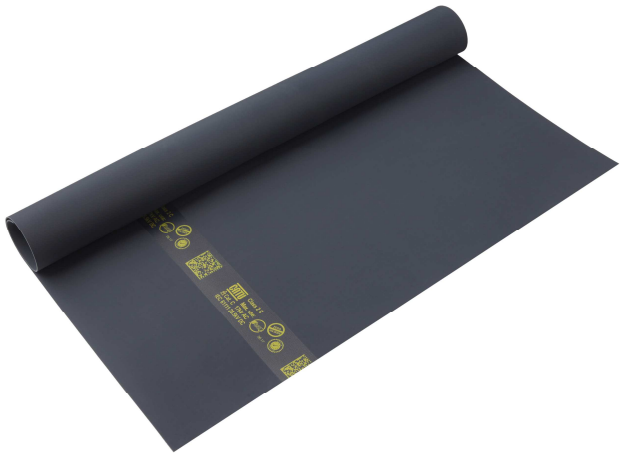
Edition : 11/21 – Technical sheet N° : M0-11001

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Téléphone : (33) 01 42 31 46 00 • Télécopie : (33) 01 42 31 46 31 • www.catuelec.com

IEC 61111 INSULATING MATS

Series MP-11-20-42-60-100-120

Class 0 – 2 – 3 - 4





Detail of marking

Protective equipment against electric shock.
Electrical insulating mat for use as a floor covering for the electrical protection of workers on electrical installations.
Standard conformity: **IEC 61111. Live Working.**

TECHNICAL CHARACTERISTICS

- All references are in accordance with **IEC 61111 standard** and to specific properties of the "C" Category (extremely low temperature folding test at – 40 °C).
  IEC 61111 standard is the only one international standard concerning insulating mats.
- RoHS2 compliant.
- REACH compliant (SVHC free).
- Zero Halogen.
- 2 D bar code (Datamatrix) on marking with direct link to user guide and technical sheet.
- Insulating mats must be chosen according to the maximum service voltage of the installation.
- High dielectric quality.
- Rubber material with non-slip surfaces on both sides.
- Operating temperature : - 40 to + 55 °C
- Storage temperature : + 10 to + 21 °C
- Repetitive marking (2 markings every 1 m minimum).

Edition : 11/2017 - Technical sheet N° : MP-11-20-42-60-100-120_GB

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IEC 61111 INSULATING MATS

Class 0 – 2 – 3 - 4

• RoHS2 compliant. Material free of Lead, Mercury, Cadmium, Hexavalent Chomium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE).	
• REACH compliant. Material free of 163 Substances of Very High Concern (SVHC).	
• Zero Halogen. Material free of Fluoride, Chlorine, Bromine and Iodine. **The absence of halogen is a positive indicator for the safety and health of operators in the event of fire.**	

REFERENCE / DIMENSIONS / WEIGHT / SERVICE VOLTAGE

Reference	IEC 61111	Thickness (mm)	Length x Width (m)	Weight (kg)	Maximum service voltage in kV (1)	
					AC	DC
MP-11/66	**Class 0**	2,2	0,6 x 0,6	1	1	1,5
MP-11/16			0,6 x 1	1,8		
MP-11/26			0,6 x 1,2	2		
MP-11/11			1 x 1	3		
MP-11/21			1 x 1,2	3,4		
MP-11/22			1,2 x 1,2	4		
MP-60/02-5			0,6 x 5	9		
MP-60/02-10			0,6 x 10	18		
MP-100/02-5			1 x 5	15		
MP-100/02-10			1 x 10	30		
MP-120/02-5			1,2 x 5	17		
MP-120/02-10			1,2 x 10	34		
MP-20/66	**Class 2**	2,6	0,6 x 0,6	1,5	17	25,5
MP-20/16			0,6 x 1	2,4		
MP-20/26			0,6 x 1,2	2,8		
MP-20/11			1 x 1	3,9		
MP-20/21			1 x 1,2	4,7		
MP-20/22			1,2 x 1,2	5,6		
MP-60/20-5			0,6 x 5	12		
MP-60/20-10			0,6 x 10	24		
MP-100/20-5			1 x 5	19,5		
MP-100/20-10			1 x 10	39		
MP-120/20-5			1,2 x 5	23,5		
MP-120/20-10			1,2 x 10	47		

(1) On multiphase circuits: the nominal voltage is the phase to phase voltage.
On single phase circuit: the nominal voltage is the phase to ground voltage.

IEC 61111 INSULATING MATS

Class 0 – 2 – 3 - 4

Reference	IEC 61111	Thickness (mm)	Length x Width (m)	Weight (kg)	Maximum service voltage in kV (1)	
					AC	DC
MP-42/66	Class 3	3,2	0,6 x 0,6	1,8	26,5	39,75
MP-42/16			0,6 x 1	2,9		
MP-42/26			0,6 x 1,2	3,5		
MP-42/11			1 x 1	4,5		
MP-120/03-1			1 x 1,2	5,4		
MP-120/03-2			1,2 x 1,2	6,5		
MP-60/03-5			0,6 x 5	14		
MP-60/03-10			0,6 x 10	28		
MP-100/03-5			1 x 5	22,5		
MP-100/03-10			1 x 10	45		
MP-120/03-5			1,2 x 5	27		
MP-120/03-10			1,2 x 10	54		
MP-60/05-1	Class 4	5	0,6 x 1	4,5	36	54
MP-120/05-0			0,6 x 1,2	5,4		
MP-100/05-1			1 x 1	8,9		
MP-120/05-1			1 x 1,2	10,5		
MP-120/05-2			1,2 x 1,2	12,6		
MP-60/05-5			0,6 x 5	22		
MP-60/05-10			0,6 x 10	45		
MP-100/05-5			1 x 5	44,5		
MP-100/05-10			1 x 10	89		
MP-120/05-5			1,2 x 5	52,5		
MP-120/05-10			1,2 x 10	105		

(1) On multiphase circuits: the nominal voltage is the phase to phase voltage.
On single phase circuit: the nominal voltage is the phase to ground voltage.

STANDARD REFERENCES

- “Live working. Electrical insulating matting”: EN 61111, IEC 61111 standard, "C" Category.
- RoHS2: Directive 2011/65/EU Annex II.
- REACH: SVHC list based on the publication by European Chemicals Agency (ECHA) on 2015 and Regulation (EC) N° 1907/2006 concerning the REACH.
- Zero Halogen: Tests based on EN 14582 guidelines.

IEC 61111 INSULATING MATS

Class 0 – 2 – 3 - 4

OPTIONAL ACCESSORIES

Carrying bag for individual mats up to 0.7 m width.
Reference: MP-01



Carrying bag for individual mats up to 1.1 m width.
Reference: MP-02

Strap “Velcro” type for maintaining the mat in rolled position.
Reference: MO-160



Shoulder strap for maintaining and carrying the mat in rolled position.
Reference: MO-161



CATU S.A. 10 à 20 avenue Jean Jaurès • B.P.2 • 92 222 BAGNEUX - Cedex FRANCE
Téléphone : (33) 01 42 31 46 00 • Télécopie : (33) 01 42 31 46 31 • www.catuelec.com

GRP storage cabinet: DMO-133

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



Room to store
- PPE equipment
- electrical rescue kit
- BA set
- fire hoses and nozzles

Optional
- lettering
- shelve
- ventilator

TECHNICAL SPECIFICATIONS

Dimensions	350 x 675 x 1075 mm (DxWxH)
Aperture dimensions	Not available
Angle of door opening	100°
Weight	20 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	SS316
Door handle	SS316
Hinges	SS316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-133
To store PPE or BA sets

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

11 CO2 PORTABLE FIRE EXTINGUISHER

YXT-001 A
YXT-001 B
YXT-001 C
YXT-001 D
YXT-001 E
YXT-001 F
YXT-001 G
YXT-001 H

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BAVARIA® Portable Carbon Dioxide Fire Extinguisher

Type

SIGMA 5



Applications:

BAVARIA SIGMA Carbon Dioxide fire extinguisher is effective in fighting flammable liquids and electric fires

MPA Dresden EN 3

TÜV

CE

ISO 9001:2000 DNV

ISO 14001 DNV

OHSAS 18001

ISO 17025 IEC

BAVARIA EGYPT (S.A.E.)
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Ismailia Desert Road, Cairo-Egypt
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Fax : + 20 (2) 2698 8447
Website : www.bavaria-firefighting.com
Email : international.sales@bavaria.com.eg

BAVARIA Brandschutz Industrie GmbH & Co. KG
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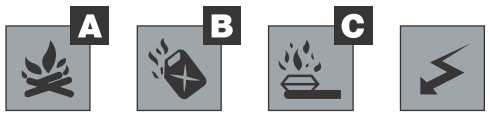
Tel. : + 49 (0) 9972 9401-0
Fax : + 49 (0) 9972 9401-17
Website : www.bavaria-firefighting.de
Email : info@bavaria-firefighting.de

12 POWDER FIRE EXTINGUISHER

YXT-002 A
YXT-002 B
YXT-002 C
YXT-002 D (Spare)

Britannia Premier
Cartridge Operated Fire Extinguisher
BA9 - ABC Dry Powder

POWDER





BA9
ABC Dry Powder



ABC 40 powder is a combination of Mono-ammonium phosphate and ammonium sulphate.

On Class A fires the particles fuse and swell to form a barrier which excludes oxygen and prevents re-ignition. On Class B fires the powder interferes with the chemical reactions, thus the flame ceases to exist.

ABC 40 powder is nonconductive and will extinguish Class A (carbonaceous) fires, Class B (flammable liquid) fires and Class C (flammable gas) fires.

Marine Model Available.

Features

- Manufactured in Great Britain
- Britannia offer a 7 year quality guarantee against material defects and workmanship
- Die cast zinc colour coded headcap
- Large neck ring enables servicing, refilling and internal inspection to be conducted with ease
- 150 gram CO_2 cartridge
- All weather service indicator studs
- Additional anti-corrosion treatment available
- Patented balance valve for ultimate fluidization of compacted powder ensuring complete discharge
- Main approvals and certifications as below

EN3

TECHNICAL SPECIFICATION

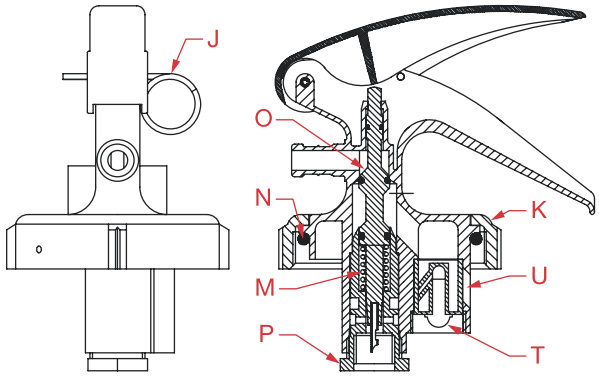
Model	Capacity (Kg)	Fire Rating	Full Weight (Kgs)	Temp Range	Operating Pressure (Bar) @ 20°C	Discharge Duration (Secs)	Discharge Range (M)	Diameter (mm)	Height (mm)
BA9	9	34A/233B	15.4	-20° to + 60°C	12	26	7	190	570

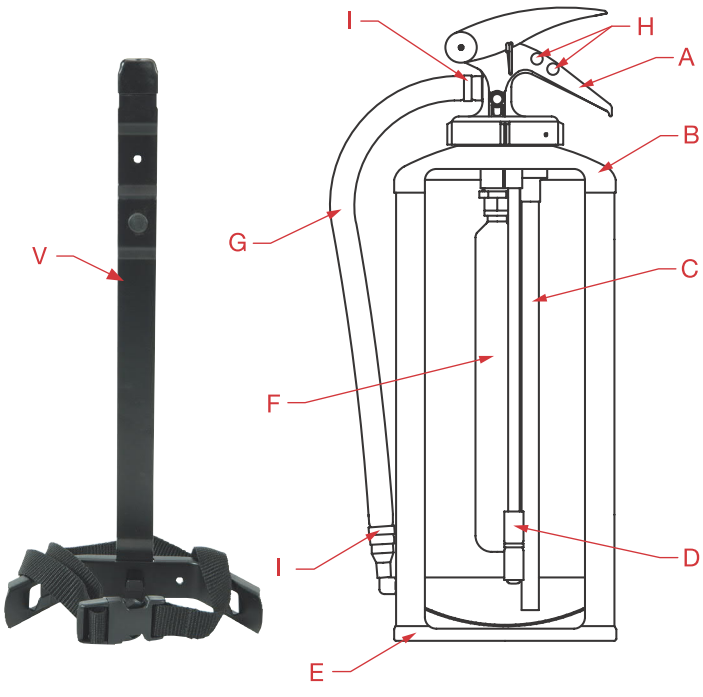
SPECIFICATIONS

Gas Cartridge	150gram CO_2
Operating Pressure @ 20°C	12bar
Test Pressure (PT)	26bar
Maximum Allowable Pressure (PS)	18bar
Minimum Burst Pressure	55bar
Cylinder Material	1.6mm Thick Mild Steel to EN 10111 - DD12
Operating Head Material	Zinc Alloy to EN 1774 - ZnA14 (ZL3)
Hose and Nozzle	Hose - EPDM Synthetic Rubber
Finish - Red RAL3000 UV Protection	Polyester Powder Paint - Thickness (85 microns avg)
Anti-Corrosion Treatment if Requested	Zinc Coating

COMPONENT PARTS

Item	Description	Part No.
A	Headcap Assembly	BRH1100B
B	Welded Body Assembly	BODYLUL
C	Syphon Tube Assembly	BRH-ST09P
D	Gas Tube Assembly	BR0680
E	Skirt Ring	BRH0460
F	Cartridge	C150
G	Hose Assembly and Nozzle	BR0502
H	Service Indicator Stud (Colour Coded) 1. Service Year, 2. Discharge Year	BRH0185
I	Oetiker Clip	BR0540
J	Safety Pin	BRH0180
K	Nut Ring	BRH0105
L		
M	Spring	BRH0200
N	O Ring	BRH0230
O	Valve Control Assembly	BRH0400
P	Cartridge/Valve Holder	BRH0120
Q		
R		
S		
T	Balance Valve	BRH0140
U	Balance Valve Holder	BRH0130
V	Transport Bracket & Strap	BRH0310
-	Pull Tight Seal	BRH0175
-	Wall Bracket	BRH0195
-	9kg ABC 40 Powder refill	PA9
-	Cartridge Spanner	SPANNER22MM
-	Headcap Spanner	HCS
-	Valve Holder Ring Spanner	SPANNER27MM





BAVARIA® Portable Carbon Dioxide Fire Extinguisher

Type: SIGMA 5

Features:

- Suitable for fighting flammable liquids and electric fires
- Carbon dioxide is a clean agent that leaves no traces, thus ideal for fighting fires involving electronic & hi-tech equipment
- Easy operation and handling
- Allows intermittent and repeated operation
- Equipped with a brass valve head complete with an overpressure safety valve
- Equipped with a squeeze-type valve, conical snow horn, and carrying handle
- Equipped with high pressure reinforced rubber hose
- High quality surface treatment with red polyester coating



European Standard DIN/EN3 Certified
TÜV (SÜD Deutschland) Approved Pressure Vessel
Awarded CE Mark
The Company is Certified according to Quality Management Systems ISO 9001
Bavaria Laboratory Accredited According to the ISO/IEC 17025

Technical Specifications:

Capacity	5 kg
Fire Classes	89B
Working Temperature Range	-30 °C to 60 °C
Cylinder	Seamless steel cylinder
Testing Pressure	310 bar
Bursting Pressure	Min. 500 bar
Valve Material	Brass valve with overpressure safety valve
Discharge Fitting	80 cm long high pressure reinforced rubber hose and snow horn
Extinguishing Agent	CO_2
Paint Finish	Surface treatment and 100% polyester coating
Approx. Gross Weight	14.2 kg
Approx. Unit Dimension (lxwxh) cm	26.0x14.0x69.0

Warranty:

Period of Warranty	2 Years
Coverage of the Warranty	Against material failure and production defects
Method of Warranty Coverage	Limited to the replacement of the defected part or product after verification that the failure is covered by the scope of the warranty
Warranty Exclusions	Failures due to misuse, mishandling, or inspection or repair by an unauthorized dealer or entity

* The illustrations may show optional extras only available at extra charge. BAVARIA retains the right to alter specifications and illustrations given herein without prior notice. Specifications will only be considered communicated at placing of order.

13 ESCAPE MASK

YXC-070001
YXC-070002
YXC-070003
YXC-070004



Dräger PARAT® Filtering Escape Hoods
Filtering Escape Device

The PARAT® filtering escape hoods were developed with users, placing the focus on faster escapes. Enhanced operation and wearing comfort, a robust case and a sealed filter help to ensure protection from toxic industrial and/or fire-related gases, vapors and particles for at least 15 minutes.

Dräger

Technology for Life

Dräger PARAT® Filtering Escape Hoods

Clearly visible hood
Hood in signal color for high visibility

Internal head harness
Thanks to the automatically adjusting internal head harness, no additional tightening of the hood is required.

High-performance filter
Filter expiration date is clearly marked; the filter is automatically released from the packaging when opened.

Exhalation valve
Directly leads the exhaled air out of the half mask



D-85039-2013

Overall protection
16 years of total service life (provided the filter is exchanged after 8 years), Hood provides respiratory and eye protection

Clear view
Wide field of vision due to a specially formed visor. Always a clear view thanks to a special anti-fog coating

Good fit
Specially designed half mask fits a wide variety of face sizes

Textile neck seal
Flexible textile neck seal

D-85039-2013-pi-en-us

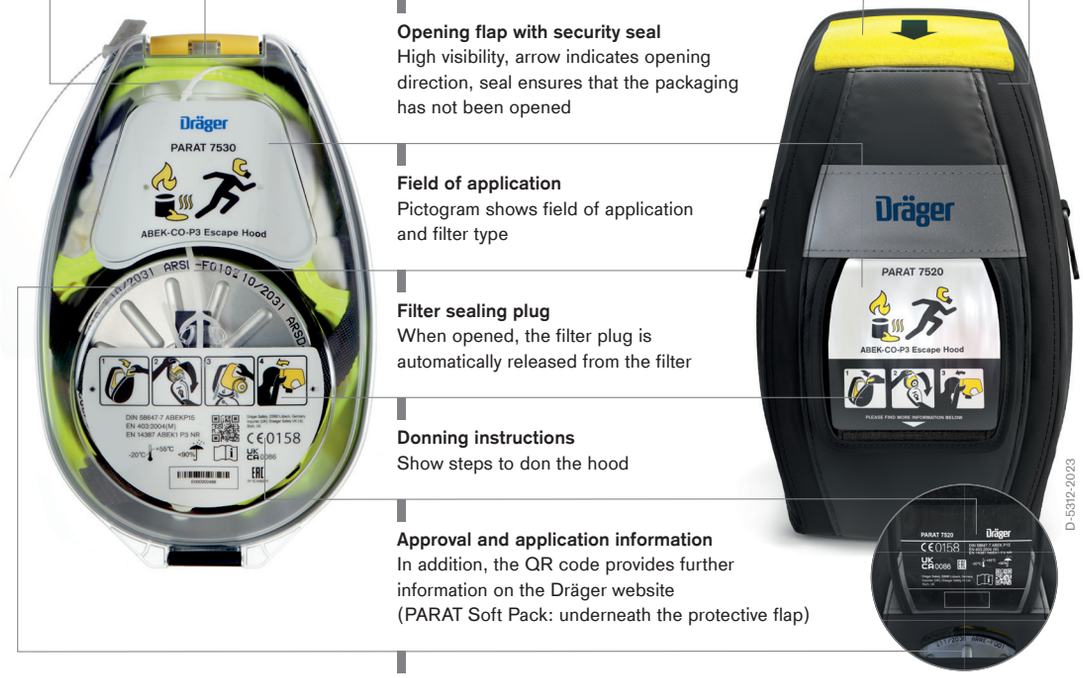
Dräger PARAT® Filtering Escape Hoods

Hard Case

Soft Pack

Dust and splash water protection
According to IP54

Dust protection
According to IP5



Opening flap with security seal
High visibility, arrow indicates opening direction, seal ensures that the packaging has not been opened

Field of application
Pictogram shows field of application and filter type

Filter sealing plug
When opened, the filter plug is automatically released from the filter

Donning instructions
Show steps to don the hood

Approval and application information
In addition, the QR code provides further information on the Dräger website
(PARAT Soft Pack: underneath the protective flap)

Control window
Allows to check the expiration date
(PARAT Soft Pack: underneath the protective flap)

D-5312-2023

D-5338-2023

D-7610-2023

D-7610-2023-pi-en-us

Benefits

Ready for escape in only 3 steps

Exceptionally innovative and intuitive: When opening the soft pack or hard case packaging, the filter plug is automatically released from the filter. The filter is then deployed into operational position and the hood can be immediately donned. Thanks to the self-adjusting internal head harness, no additional adjustment is required. All you have to do is open the packaging, remove and don the hood– and leave the danger zone.

Reliable protection

Choose from fire escape, industrial escape or a combination of fire and industrial escape. The high-performance combination filter reliably protects against a wide range of fire and/or toxic industrial gases, vapors and particles – depending on the version. The filters are approved according to the EN standard 403:2004 for fire escape hoods and/or the DIN standard 58647-7 for industrial filtering escape devices. Additionally, the industrial versions are tested in accordance with NIOSH 42 CFR Part 84 and the EN standard 14387:2004 for gas and combined filters.

To keep the filter safe over its long lifetime, it is tightly sealed with two filter plugs.

16 years of service life

Replacing the filter after eight years will extend the service life of the Dräger PARAT Escape Hood to 16 years in total. For this, Dräger offers filter replacement service or expert training for your employees.

Robust and ergonomic

Both ergonomics and wearing comfort were considered when designing the soft pack and hard case packaging of the Dräger PARAT Escape Hoods. The escape hood can be carried with a belt, shoulder strap, grip clip or belt clip. The PARAT Hard Case can also be mounted on the wall using a wallholder. Additionally, the robust packaging of the Dräger PARAT Escape Hoods protects the device from damage.

Different packaging types

You can select between different packaging types: The hard case provides splash water protection (IP54)– the soft pack provides ingress dust protection (IP5). Both packaging types have a viewing window to check the filter expiration date and the condition of the device. Particularly convenient: The security seal on the packaging shows if the unit has been opened.

Accessories



D-85100-2013

Wallholder PIN for PARAT® Hard Case

Ideal for placing stationary units in a central location. For example in public buildings, where they may be needed in an emergency situation. Or optionally placed in specific locations where they may be required as a safety measure. The Wallholder PIN can be mounted to any Hard Case using the accessory attachment points.



D-21254-2015

Wallholder HOOK for PARAT® Hard Case

Ideal for placing stationary units in a central location. For example in public buildings, where they may be needed in an emergency situation. Or optionally placed in specific locations where they may be required as a safety measure. The unique advantage of the Wallholder HOOK is that when mounted to the Hard Case via a hook system a shoulder harness can be attached to the Hard Case.



ST-14719-2008

Waist Belt (textile)

Ideal for carrying the unit safely secured to the wearer on a daily basis. The textile waist belt is robust and comfortable to wear. The waist belt can be used with both Soft Pack and Hard Case versions.



ST-14720-2008

Waist Belt (plastic)

Ideal for carrying the unit safely secured to the wearer on a daily basis. The flexible plastic-coated waist belt is easy to clean, especially after work in rough environments. The waist belt can be used with both Soft Pack and Hard Case versions.

Accessories



D-1243-2021

Hip Belt (antistatic)

Hip belt with antistatic coating, washable.Belt width: 3.8 cm, belt length: adjustable from 70 to 115 cm. Can be used with PARAT Soft Pack and PARAT Hard Case.



D-7276-2026

PARAT Shoulder Strap

The shoulder strap is perfect for short-term and recurring operations where the device must be quickly taken with the user. The strap can be mounted to accessory attachment points on the Hard Case or the attached loops on the Soft Pack.



D-92815-2013

Belt Clip

The belt clip can be used with any standard belt. Ideal for short term applications like inspection or maintenance where the unit is often attached to and removed from the belt. Can be mounted on the Hard Case using the accessory attachment points. For attachment on the Soft Pack the adapter plate is needed.



D-85103-2013

Dräger PARAT® Grip Clip

The grip clip is a good carrying solution for short term applications when a securely fastened clip is needed. It is ideal to fasten on work clothes or pockets. It can be mounted on the Hard Case using the accessory attachment points. For attachment on the Soft Pack the adapter plate is needed.

Accessories



D-92814-2013

D-Ring for PARAT® Hard Case

The D-ring is ideal for carrying the unit in combination with a carabiner hook. A D-ring is already a standard part of the Soft Pack. This is an optional accessory for the Hard Case and can be mounted using the accessory attachment points.



D-6092-2014

Adapter Plate for PARAT® Soft Pack

The adapter plate is needed to attach the belt or grip clip for use with the Soft Pack.

Technical Data

	Dräger PARAT® 4900	Dräger PARAT® 5500	Dräger PARAT® 7500	Dräger PARAT® Training
Filter performance	NIOSH Multigas / R95 combination filter for toxic industrial gases, vapors, and particles	CO P2: combination filter against toxic fire-related gases, vapours and particles	ABEK CO P3: combination filter against toxic gases, vapours, particles and fire-related gases	Empty filter housing
Period of Use	At least 15 minutes			-
Total service life	16 years (provided the filter is exchanged after eight years)			-
Weight	Dräger PARAT® 4920: 26.7 oz (758 g)	Dräger PARAT® 5520: 24.7 oz (701 g) Dräger PARAT® 5530: 25.4 oz (720 g)	Dräger PARAT® 7520: 30 oz (853 g) Dräger PARAT® 7530: 29.2 oz (830 g)	Soft Pack: 17.9 oz (510 g) Hard Case: 20.1 oz (570 g)
Dimensions (length x width x height)	Dräger PARAT® 4920: 8.8 x 5.6 x 4.8 in (225 x 142 x 122 mm)	Dräger PARAT® 5520: 8 x 5.1 x 4.1 in (204 x 130 x 105 mm) Dräger PARAT® 5530: 9.4 x 5.6 x 4.2 in (241 x 143 x 107 mm)	Dräger PARAT® 7520: 8.8 x 5.6 x 4.8 in (225 x 142 x 122 mm) Dräger PARAT® 7530: 9.8 x 6.1 x 4.5 in (249 x 156 x 115 mm)	Soft Pack: 8 x 5.1 x 4.1 in (204 x 130 x 105 mm) Hard Case: 9.4 x 5.6 x 4.2 in (241 x 143 x 107 mm)
Approvals	NIOSH 42 CFR Part 84	EN 403:2004 PARAT® 5550: additionally approved to EN 137:2006 Type 2	EN 403:2004 DIN 58647-7:1997	-
		Additionally tested for the use against H2S (at 2,500 ppm) in accordance with DIN 58647-7:1997	Additionally tested in accordance with EN 14387	

PARAT 4920: NIOSH Approved and Independently Tested Gases

Gas/Vapor	Test Concentration	Minimum Service Life (min.)	Tested By:
Ammonia	1,000 ppm	25	NIOSH CFR 84.207 & 84.190 (a)
Chlorine	500 ppm	17.5	NIOSH CFR 84.207 & 84.190 (a)
Chlorine Dioxide	500 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Chloride	500 ppm	25	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Flouride	70 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Sulfide	1,000 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Methylamine	1,000 ppm	12.5	NIOSH CFR 84.207 & 84.190 (a)
Organic Vapor Test	1,000 ppm	25	NIOSH CFR 84.207 & 84.190 (a)
Sulfur Dioxide Test	500 ppm	15	NIOSH CFR 84.207 & 84.190 (a)
HCHO/Formaldehyde	100 ppm	40	Independent/In House Testing
HCN/Hydrogen Cyanide	500 ppm	50	Independent/In House Testing
Hg/Mercury Vaport	21.5 mg x n -3	60	Independent/In House Testing

Technical Data

Gas filter capacity according to DIN 58647-7:1997*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	2,500	15
B	Chlorine (Cl_2)	2,500	15
B	Hydrogen sulphide (H_2S)	2,500	15
B	Hydrogen cyanide (HCN)	2,500	15
E	Sulphur dioxide (SO_2)	2,500	15
K	Ammonia (NH_3)	2,500	15
B	Hydrogen sulphide (H_2S)	10,000	5

* Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F

Gas filter capacity according to EN 403:2004*

Test gas	Concentration in ppm	Minimum exposure time in min
Carbon monoxide (CO)	2,500 5,000 7,500 10,000	15 15 15 15
Propenal (Acrolein)	100	15
Hydrogen chloride (HCl)	1,000	15
Hydrogen cyanide (HCN)	400	15

* Test conditions: 30 L/min, 70% rel. humidity, 20 °C / 68 °F

Gas filter capacity according to EN 14387*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	1.000	70
B	Chlorine (Cl_2)	1.000	20
	Hydrogen sulphide (H_2S)	1.000	40
	Hydrogen cyanide (HCN)	1.000	25
E	Sulphur dioxide (SO_2)	1.000	20
K	Ammonia (NH_3)	1.000	50

*Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F

Gas filter capacity according to EN 14387*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	1.000	70

Technical Data

B	Chlorine (Cl_2)	1.000	20
	Hydrogen sulphide (H_2S)	1.000	40
	Hydrogen cyanide (HCN)	1.000	25
E	Sulphur dioxide (SO_2)	1.000	20
K	Ammonia (NH_3)	1.000	50
*Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F			

Ordering Information

Dräger PARAT® Escape Hoods	
Dräger PARAT® 4920, Soft Pack	3721331
Dräger PARAT® 5510, Single Pack	R 59 415
Dräger PARAT® 5520, Soft Pack	3721330
Dräger PARAT® 5530, Hard Case	R 59 435
Dräger PARAT® 7520, Soft Pack	3721329
Dräger PARAT® 7530, Hard Case	R 59 437
Dräger PARAT® Training Hood, Soft Pack	3721327
Dräger PARAT® Training Hood, Hard Case	R59430

Accessories	
Replacement Flter Set: Dräger PARAT® 4920 (includes NIOSH Multigas/R95 Filter and security seal)	R59473
Replacement Filter Set: Dräger PARAT® 5520/5530 (includes CO P2 filter and security seal)	R59475
Replacement Filter Set: Dräger PARAT® 7500 (includes ABEK CO P3 filter and security seal)	R59477
Wallholder PIN for Dräger PARAT® Hard Case	R59451
Wallholder HOOK for Dräger PARAT® Hard Case	R59452
Waist Belt, textile	6733934
Waist Belt, plastic	R53026
Waist Belt, antistatic	3715595
Shoulder Strap	R59461
Belt Clip	R59456
Grip Clip	R59455
Adapter Plate for Dräger PARAT® Soft Pack	R58742
D-Ring for Dräger PARAT® Hard Case	R59457
Filter Dummy for Dräger PARAT® Training Hoods	R59479
Filterplug Straps for Dräger PARAT® Training Hoods	R59482
Security Seal for Dräger PARAT® Hoods	R59484
Set Sticker Luminescent for Dräger PARAT® 4920	3725786
Set Sticker Luminescent for Dräger PARAT® 5520	3725782
Set Sticker Luminescent for Dräger PARAT® 7520	3725785
Set Sticker Luminescent for Dräger PARAT® Training Unit	3725787

Notes

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14 ESCAPE MASK CABINET

YEE-079001 C

GRP storage cabinet: DMO-35

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



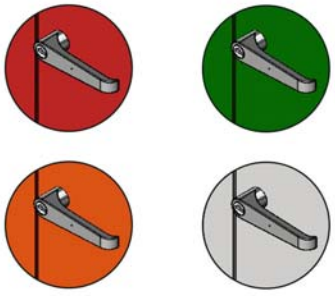
Features

Room to store
- Fire extinguisher (1 pcs DP/F/CO2)
- Survival suit (1 pcs)
- Life jacket (4 pcs inflatables)
- Escape masks (up to 10 pcs depending on type)
- Emergency Escape Breathing Apparatus

Options
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	470 x 250 x 980 mm (WxDxH)
Aperture dimensions	345 x 250 x 836 mm (WxDxH)
Angle of door opening	90°
Weight	12,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-35
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

15 EVACUATION STRETCHER & LIFTING BRIDLES SYSTEM & BELTS

YSE-079003

CE

Medical Device Regulation COMPLIANCE

SPENCER
Made for Decisive Moments

UNIVERSAL BASKET STRETCHER
SPENCER SHELL



FEATURES

- **Integrated high-density polyethylene shell** for enhanced patient protection
- **Strategically positioned eyelets** offer patient restraint versatility
- **12 ample handholes** for secure grip
- **Aerial lifting capability** with 4 eyelets
- **Perimeter rope** for belt and accessory attachment
- **Adjustable floating footrest** in durable PE available
- **Waterproof mattress** for enhanced patient comfort

Models	SPENCER SHELL	SPENCER SHELL	SPENCER SHELL	SPENCER SHELL
Color				
Codes	**ST04012**	**ST04000**	**ST04066**	**ST04017**

The **Spencer Shell** is a basket stretcher designed for the recovery and transportation of patients in challenging and high-risk scenarios. It is particularly tailored for rescue operations where safeguarding the patient from side impacts is paramount, and conventional transport equipment falls short.

It features a distinctive high-density polyethylene shell that acts as a protective cocoon for the patient, guarding against side impacts and providing an added layer of safety during rescue operations. Equipped with strategically placed handholes and eyelets, the stretcher can be lifted or carried by multiple operators, making it suitable for a variety of rescue scenarios. Two skids at the bottom of the shell minimize friction during dragging operations, allowing for smoother navigation across different terrains.

The Spencer Shell basket stretcher can be used in a range of challenging rescue situations, including: technical rescue, mines, high altitudes, water rescue, air and for sporting events.

280 kg
617 lb
Load Capacity

Great Resistance

Easy to Clean

CLASS I MEDICAL DEVICE COMPLIANT WITH UE REGULATION 2017/745

LEARN MORE

Product datasheet **Spencer Shell** – Codes **ST04000 • ST04012 • ST04017 • ST04066**
CND Classification **V0899** – Registration number **171960**

TECHNICAL DATA

Length	215 cm / 84.6 in.
Width	65 cm / 25.5 in.
Height	20 cm / 7.87 in.
Handles	12
Weight without accessories	12,5 kg / 27.5 lb
Material	PE, PP, Al
Load capacity	280 kg / 617 lb

THE PRODUCT INCLUDES:

Code ST04011A – Footrest for Shell and Twin Shell

Code ST00592A – STX 592 Yellow belts with metal buckle – 2 pieces

WHY SHOULD YOU USE THE SPENCER SHELL FOR YOUR RESCUE OPERATIONS?

- The SPENCER SHELL can be used in any rescue scenarios: it can winched for air lifting, dragged on the ground and used for sea rescue with the addition of floating systems.
- Crafted from high-quality materials, the SPENCER SHELL offers a perfect balance between durability and lightweight design.
- The SPENCER SHELL is designed with a secure and rigid shell structure, providing maximum protection to the patient during transport.
- The stretcher is engineered to distribute the patient's weight evenly, preventing pressure points and reducing the potential for additional injuries. This feature is particularly crucial during challenging rescue scenarios where maintaining patient stability is paramount.
- The basket stretcher is equipped with strategically placed handholds and attachment points, facilitating smooth and controlled movement. This enhances the crew's ability to navigate challenging terrains and ensure a secure grip during patient transfer.
- Easy-to-clean materials simplify post-rescue maintenance, promoting efficiency and hygiene in the rescue process.
- The shell of the basket stretcher is large enough to host additional medical and diagnostics equipment for better patient care.

ACCESSORIES



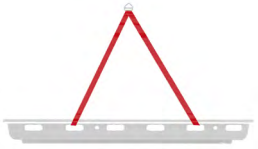
ST00592A

STX 592
Yellow belt metal buckle – 2 pieces



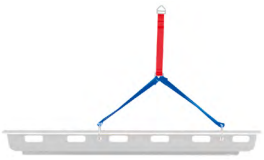
ST70002A

STX 702
Black reflex belts with metal buckle – 2 pieces



ST04522B

STX 540
Fixed lifting bridles system



ST04519C

STX 519
Adjustable lifting bridles system



ST04524B

STX 538
Universal floating devices for basket stretchers or spine boards – 3 pieces



ST04525B

STX 537
Universal floating devices for basket stretchers or spine boards – 1 piece



ST04518A

STX 518
Universal floating devices for basket stretchers or spine boards – 2 pieces



ST04040A

STX 40
Spencer Shell carry bag



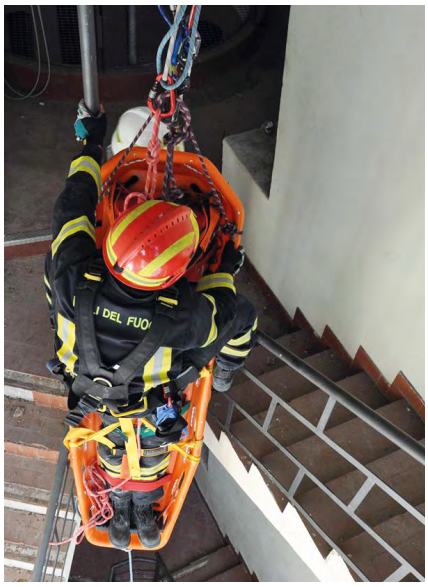
ST04530

SPEED BASKET
Basket stretchers carrier

SPENCER
Made for Decisive Moments









Rev.0 (06/11/2023)
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Via Provinciale, n° 12 - 43038 Sala Baganza (PR) Italy - +39 0521 541111 - info@spencer.it - www.spencer.it

STX 519

Adjustable lifting bridles system



These harnesses are accessories for basket stretchers, to be used solely for lifting from a floor-mounted position or for dragging.

Specific features
4 hooks with automatic locking secure
Easy to adjust system

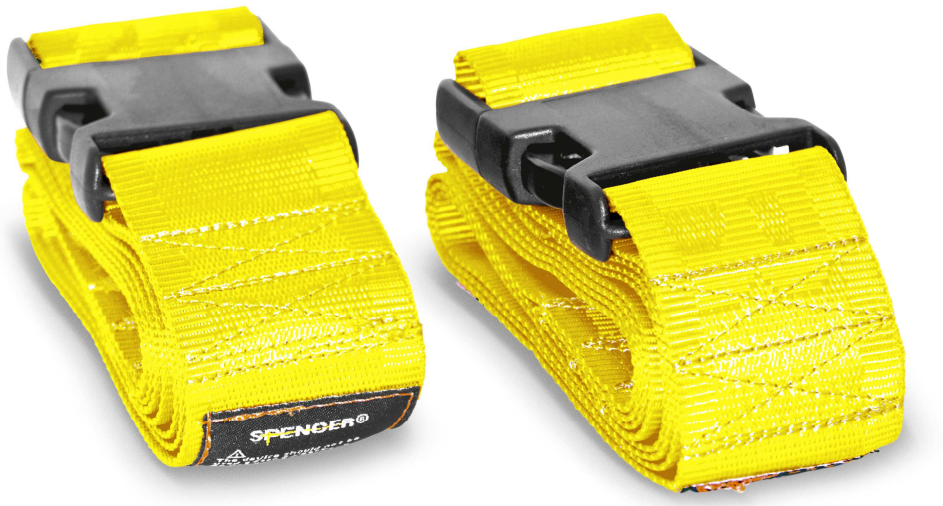
Technical data	
Belt length	Maximum 1680 mm Minimum 1250 mm
Belt width	50 / 20 mm
Weight	1.8 ± 0.1 kg
Material	Nylon, aluminium, steel
Fastening type	Spring catch
Number of fastening bands	4
Compatibility	All basket stretchers manufactured by Spencer
Maximum applicable static safety load	450 kg (1000 lbs)

Class I MD compliant with UE Reg. 2017/745	
STX 519 ADJUST. LIFTING BRID. - LIFTING BRIDLE SYS	CE
ST04519C	
CND Classification	V0899
Registration number	188142

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www.spencer.it
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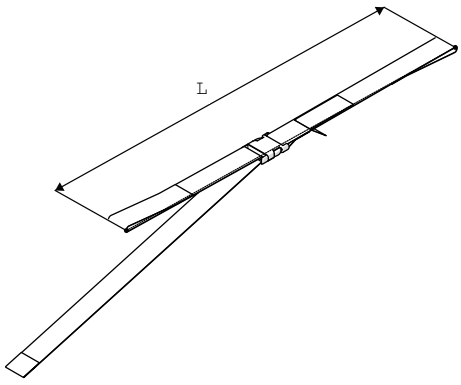
STX 598

Two piece belt



STX 598 restraint belts are aids used to obtain a degree of restraint that allows patients to be transported safely when used in accordance with the product in use.

Specific features
Nylon hook to ensure maximum safety
Suitable for self-loading stretchers, basket stretchers and spinal boards



Technical data [1]		
	Min (mm)	Max (mm)
Length L	700	1500
Available length after knot has been done [2]	460	1250
Belt width		50 mm
Materias		Nylon
Belt weight		130 ± 10 g
Belt type		2 pieces
Hook		Plastic

[1] The indicated lengths are subject to tolerances of ± 30 mm
[2] Approximate value. It varies depending on which device the belt is applied

Class I MD compliant with UE Reg. 2017/745	
MOD 598 RESTRAINT BELT 2 PCS. DERLIN	CE
ST00598A	
CND Classification	V9099
Registration number	96090

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www.spencer.it
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16 IMMERSION SUIT

YEE-079002 A
YEE-079002 B
YEE-079002 C
YEE-079002 D
YEE-079002 E
YEE-079002 F
YEE-079002 G
YEE-079002 H
YEE-079002 I
YEE-079002 J
YEE-079002 K

VIKING
PPE

Protective Suits

YouSafe™ Wave | SOLAS/MED

MARCH 2024



MODEL
VIKING YouSafe™ Wave

VIKING YouSafe™ Wave

The VIKING YouSafe™ Wave is one of our top-sellers and provides good thermal protection combined with high visibility fabric to increase your chance of survival in an emergency.

- Basic model to be worn with an approved lifejacket
- Durable flame retardant Neoprene with good elasticity for a perfect fit and easy donning
- Detachable gloves for easy donning and handling of emergency equipment

VIKING YouSafe™ Wave, immersion suit, SOLAS, MSMER
Product number: PS2014

VIKING
PPE

Protective Suits

YouSafe™ Wave | SOLAS/MED

MARCH 2024

Specifications



Approvals
- SOLAS/MED - 6-hour insulation
- MSMER

Outer material
- Neoprene, 5 mm

Colour options
- High visibility yellow

Design features
- Strap-attached gloves for easy donning
- Fully integrated boots with adjustment strap
- Waterproof and extended zipper for easy donning
- High visibility in dark water

Typical applications
- Commercial vessels
- Fishing vessels
- Passenger vessels

Sizes
- 54/Universal: Height from 140 cm to 200 cm, weight from 50 kg to 100 kg
- 58/Oversize: Height from 170 cm to 210 cm, weight from 80 kg to 160 kg

Special instructions
- Must be worn with an approved lifejacket

Options
- Airtight packing
- Print

Exchange Concept
- Yes

Service interval
- 3 years (after 10 years - more frequently)

Related items

VIKING YouSafe™ Wave+, immersion suit, SOLAS (PS2004)

VIKING YouSafe™ Essence, lifejacket, SOLAS (PV9530)

VIKING YouSafe™ Multi, lifejacket, SOLAS/TC/USCG (PV9521)

VIKING YouSafe™ Ergo, lifejacket, SOLAS (PV9522)

VIKING YouSafe™ One, inflatable lifejacket, SOLAS (PV9342)

17 LIFEJACKET

YEE-079003 A
YEE-079003 B
YEE-079003 C
YEE-079003 D
YEE-079003 E
YEE-079003 F
YEE-079003 G
YEE-079003 H
YEE-079003 I
YEE-079003 J
YEE-079003 K
YEE-079003 L
YEE-079003 M
YEE-079003 N
YEE-079003 O
YEE-079003 P
YEE-079003 Q
YEE-079003 R
YEE-079003 S
YEE-079003 T
YEE-079003 U
YEE-079003 V

VIKING
PPE

Lifejackets

YouSafe™ Essence | SOLAS/MED

MARCH 2024



MODEL
VIKING YouSafe™ Essence

VIKING YouSafe™ Essence

Designed to minimize storage dimensions, while still allowing for easy repacking for crew. Featuring a compact design and proven in-water performance, VIKING YouSafe™ Essence is a great basic lifejacket for commercial cargo and passenger vessels.

- Good in-water performance with a torso and head-support buoyancy panel
- Intuitive donning and protection in case of emergency
- Easy repacking and storage when not in use

VIKING YouSafe™ Essence, lifejacket, SOLAS/MED, MSMER
Product number: PV9530

VIKING
PPE

MARCH 2024

Lifejackets

YouSafe™ Essence | SOLAS/MED

Specifications





Approvals
- SOLAS/MED
- MSMER

Cover fabric
- Coated polyester

Colour options
- Orange
- High visibility yellow

Design features
- Whistle, buddy line, lifting strap
- Single front buckle and crotch strap ensures an easy intuitive donning
- Minimal storage space required
- Body and head-support buoyancy panel

Typical applications
- Cargo vessels
- Passenger vessels
- Offshore applications

Sizes
- Universal size

Options
- SOLAS approved light
- Print

Service interval
- No service required (light must be serviced every 5 years)

Spare parts

- Light, W4-A, alkaline	1061461
- Clips for light	1070497
- Whistle	1058946

Related items

VIKING YouSafe Wave, immersion suit, SOLAS (PS2014)

VIKING YouSafe Breeze, immersion suit, SOLAS (PS5006)

VIKING YouSafe™ Ergo, lifejacket (PV9522)

18 DECENT DEVICE

YEE-079004 A
YEE-079004 B
YEE-079004 C
YEE-079004 D
YEE-079004 E
YEE-079004 F
YEE-079004 G
YEE-079004 H
YEE-079004 I
YEE-079004 J
YEE-079004 K
YEE-079004 L
YEE-079004 M
YEE-079004 N
YEE-079004 O
YEE-079004 P
YEE-079004 Q
YEE-079004 R
YEE-079004 S
YEE-079004 T
YEE-079004 U
YEE-079004 V

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Arco Professional Safety Services Ltd.

Product Technical Data.					
Short Description:	40m Offshore S-Cape™ MkVI Personal Emergency Evacuation Unit.				
Product ID:	15800	**Model Ref:**	9306040	**System Length:**	40m.



Offshore S-Cape™ MkVI Personal Emergency Evacuation System.
Designed specifically as a Tertiary Personal Emergency Self-Rescue / Evacuation System from offshore oil & gas installations. The Offshore S-Cape™ life-saving appliances (personal abseiling rescue devices) are in current use in many regions around of the world.
The Offshore S-Cape™ evacuations units are liferaft compatible & can also be used to lower off an injured or unconscious person.
This model also has an inner vacuum sealed foil bag for additional protection. The system is pre-reeved & ready to use by trained personnel.
Each unit is supplied with, as standard, an operational certificate and system instructions. The Declaration of Conformity is issued separately.
This product requires training before use.

Recertification period:	9Years	**Capacity:**	One Person (40 - 150kg.)
Net weight:	6.8kg.	**Dimensions:**	46cm. x 15cm. x 26.5cm.

Rate of Descent:			
Conscious person:	Variable 0>	**Unconscious person:**	Auto-stop.

Principal Materials: Aluminium top connector, Polyamide rope, aluminium / steel descender, harness is 25% PAD, 70% PVC, 5% Steel, stainless steel intermediate connector & quick release unit, stainless steel handrail strop assembly, Polyester painter line strop with stainless steel connectors, PVC outer bag with stainless steel connector, LDPE / OPA / Aluminium foil / polyester film inner bag, polythene grip seal bag, activated clay desiccant in a Tyvek bag.

Manufacturer:	Arco Professional Safety Services Ltd.
Export Commodity Tariff Code:	8479 89 97
Country of origin:	EC – United Kingdom
Rope CE Marked via:	EN1891:1998
Descender CE Marked via:	EN12841:2006 Type C.
Harness CE Marked & tested to:	EN1497:2007, EN1498:2006 Class B. MBL 15kN.
Liferaft Compatible:	Yes.
Ability to lower a unconscious / injured casualty.	Yes.
Other lengths available for this application:	Yes.
Training to User Level available:	Yes.
Training to Instructor Level available:	Yes.
Other Rescue kit models available for other applications:	Yes.

Additional notes:
In order to be liferaft compatible the system length of the Offshore S-Cape™ system needs to be of a length that is at least the deployment height above the LAT (Lowest Astronomical Tide) plus 12metres.

S-Cape™ Systems: Are rescue systems designed and manufactured by Arco Professional Safety Services Ltd. These are available in a wide variety of models to suit specific applications for the rescue of either the user as in a self-rescue / evacuation, or a casualty.
Please note that instructions are currently only in English with some pictorial content, if other languages are required, then please ask for further detail.
Please contact Arco Professional Safety Services Ltd. or your local Arco representative for more help about a specific rescue application.
Total Access is also a trading name of Arco Professional Safety Services Ltd.

2nd December 2019 Rev: 3

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Registered in England, Company Registration Number: 02712780. VAT Registration Number: GB 166 9115 46.

20 CABINET FOR PORTABLE FIRE EXTINGUISHERS & HEATER

YXC-070001
YXC-070002
YXC-070003

Roxtec

Read more about the solution on roxtec.com
https://www.roxtec.com/linktransit/en/solution/1096

Roxtec EzEntry™

Light-weight cable entry seals with composite frame.

The Roxtec EzEntry™ cable entry seals have light-weight composite frames and fit directly into standard openings. The seals are available in six sizes for cable capacity from 4 to 32 cables, and provide IP 66/67 protection.



- Corrosion resistant
- Area efficient
- Allows pre-terminated cables

Product characteristics

IP/UL NEMA

Structure of installation

Cabinets & enclosures

Ratings & certificates

Tightness

- IP 66/67, UL/NEMA 4,4X,12,13

Frame dimensions

in/lbs

The frame variants below are a limited selection. For the full range of frames and configurations, please visit roxtec.com.

Product	Frame openings	Packing space	External dimensions WxHxD	Aperture dimensions w x h	Weight	Art. no
EZENTRY 4 MINI FRAME ASSEMBLY	1	1.575 x 1.575	2.992 x 2.992 x 0.945		0.18	EZ00044000000
EZENTRY 16 FRAME ASSEMBLY	1	1.575 x 6.299	3.543 x 8.976 x 1.339	1.457(+0.039/-0) x 6.22(+0.079/-0)	0.97	EZ00016000000
EZENTRY 16 COUNTER FRAME			8.465 x 0.689 x 0.472		0.53	2CV0000000016
EZENTRY 24 FRAME ASSEMBLY	2	1.575 x 4.724	3.543 x 12.795 x 1.614	1.457(+0.039/-0) x 10.039(+0.079/-0)	1.6	EZ00024000000
EZENTRY 32 FRAME ASSEMBLY	2	1.575 x 6.299	3.543 x 15.945 x 1.614	1.457(+0.039/-0) x 13.189(+0.079/-0)	2	EZ00032000000
EZENTRY 4 FRAME ASSEMBLY	1	1.575 x 1.575	2.756 x 3.819 x 1.22	1.457(+0.039/-0) x 1.654(+0.079/-0)	0.46	EZ00040000000
EZENTRY 10 FRAME ASSEMBLY	1	1.575 x 3.937	2.756 x 6.614 x 1.22	1.457(+0.039/-0) x 4.252(+0.079/-0)	0.6	EZ00010000000

Sealing components

Sealing components



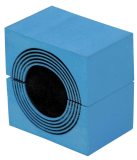
GM module with Multidiameter™



EM module with Multidiameter™



Assembly Gel



CM module with Multidiameter™



Lubricant

For detailed information, please visit roxtec.com.

Roxtec

Read more about the solution on roxtec.com
https://www.roxtec.com/linktransit/en/solution/1096

Pre-configured transit kits

in/lbs


EZENTRY 4 MINI/4


EZENTRY 4 MINI/9


EZENTRY 4/4

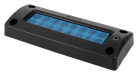

EZENTRY 10/4

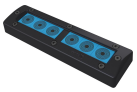

EZENTRY 10/7

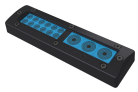

EZENTRY 10/10

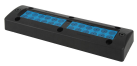

EZENTRY 16/4

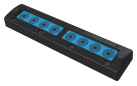

EZENTRY 16/10

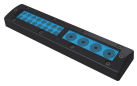

EZENTRY 16/16

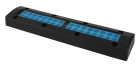

EZENTRY 24/6


EZENTRY 24/15


EZENTRY 24/24


EZENTRY 32/8


EZENTRY 32/20

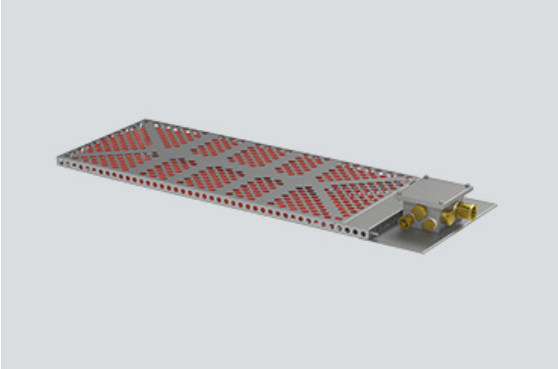

EZENTRY 32/32

Product	Configuration	External dimensions WxHxD	Aperture dimensions w x h	Weight	Art. no
EZENTRY 4 MINI/4	4x (0.138-0.650)	2.992 x 2.992 x 0.945	2.008(+0.039/-0) x 2.008(+0.079/-0)	0.29	EZ00000000440
EZENTRY 4 MINI/9	9x (0.138-0.413)	2.992 x 2.992 x 0.945	2.008(+0.039/-0) x 2.008(+0.079/-0)	0.37	EZ00000000490
EZENTRY 4/4	4x (0.138-0.650)	2.756 x 3.819 x 1.22	1.457(+0.039/-0) x 1.654(+0.079/-0)	0.49	EZ00000000044
EZENTRY 10/4	2x (0.138-0.650), 2x (0.374-1.280)	2.756 x 6.614 x 1.22	1.457(+0.039/-0) x 4.252(+0.079/-0)	0.84	EZ00000001004
EZENTRY 10/7	6x (0.138-0.650), 1x (0.374-1.280)	2.756 x 6.614 x 1.22	1.457(+0.039/-0) x 4.252(+0.079/-0)	0.86	EZ00000001007
EZENTRY 10/10	10x (0.138-0.650)	2.756 x 6.614 x 1.22	1.457(+0.039/-0) x 4.252(+0.079/-0)	0.77	EZ00000001010
EZENTRY 16/4	4x (0.374-1.280)	3.543 x 8.976 x 1.339	1.457(+0.039/-0) x 6.22(+0.079/-0)	1.4	EZ00000001604
EZENTRY 16/10	8x (0.138-0.650), 2x (0.374-1.280)	3.543 x 8.976 x 1.339	1.457(+0.039/-0) x 6.22(+0.079/-0)	1.5	EZ00000001610
EZENTRY 16/16	16x (0.138-0.650)	3.543 x 8.976 x 1.339	1.457(+0.039/-0) x 6.22(+0.079/-0)	1.5	EZ00000001616
EZENTRY 24/6	6x (0.374-1.280)	3.543 x 12.795 x 1.614	1.457(+0.039/-0) x 10.039(+0.079/-0)	2.6	EZ00000002406
EZENTRY 24/15	12x (0.138-0.650), 3x (0.374-1.280)	3.543 x 12.795 x 1.614	1.457(+0.039/-0) x 10.039(+0.079/-0)	2.6	EZ00000002415
EZENTRY 24/24	24x (0.138-0.650)	3.543 x 12.795 x 1.614	1.457(+0.039/-0) x 10.039(+0.079/-0)	2.5	EZ00000002424
EZENTRY 32/8	8x (0.374-1.280)	3.543 x 15.945 x 1.614	1.457(+0.039/-0) x 13.189(+0.079/-0)	3.3	EZ00000003208
EZENTRY 32/20	16x (0.138-0.650), 4x (0.374-1.280)	3.543 x 15.945 x 1.614	1.457(+0.039/-0) x 13.189(+0.079/-0)	3.3	EZ00000003220
EZENTRY 32/32	32x (0.138-0.650)	3.543 x 15.945 x 1.614	1.457(+0.039/-0) x 13.189(+0.079/-0)	3.4	EZ00000003232

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TRANBERG Solutions
Enclosure heater With junction box

TEF92071001 Art. No. 220182



- Low profile, easy to fit inside cabinets
- Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

MY R. STAHL **T9207B**

Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

Technical Data

Explosion Protection	
Application range (zones)	1, 2
IECEx gas certificate	IECEx NEM 11.0005X
IECEx gas explosion protection	Ex e IIC T3 Gb
ATEX gas certificate	NEMKO 11ATEX1098X
ATEX gas explosion protection	II 2 G Ex e IIC T3 Gb
Electrical Data	
Power	100 W
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +50 °C (live)
Storage temperature	-50 °C ... +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Stainless steel 1.4404
Max. connection cross section, solid	4 mm²
Max. connection cross-section, finely stranded	2,5 mm²
Cable length	0 m
Dimension A	200 mm
Dimension B	430 mm
Dimension C	30 mm
Dimension D	80 mm
Dimension E	190 mm
Dimension F	160 mm
Weight	6.44 lb
Components	
Drilled holes	4 x M25
Cable glands and entries	1 x M25 x 1.5

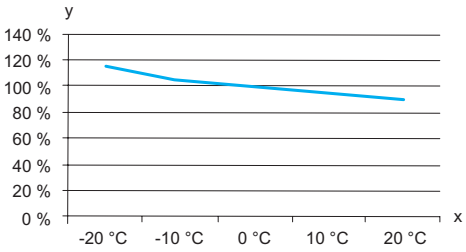
TRANBERG Solutions
Enclosure heater With junction box

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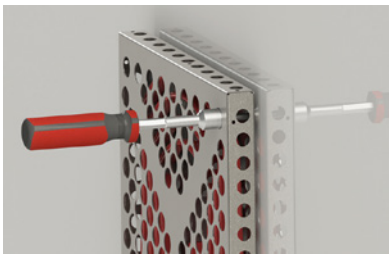
Components

Stopping plugs	3 x M25 x 1.5

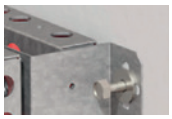
Technical Drawings – Subject to Alterations



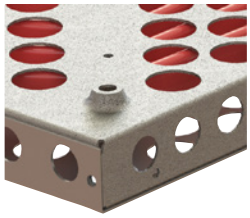
Estimated power output of heater in respect to ambient temperature
y = Effect %, x = Ambient temperature °C



Use a tool to tighten the screws firmly to secure the heater.

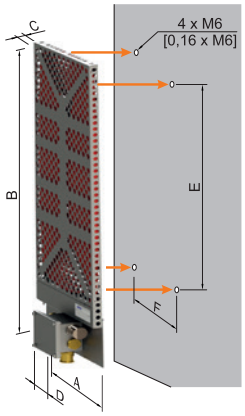


Sandwich design
Insert 4 x M6 screws and washers in the mounting brackets as shown. Use a wrench for tightening the screws firmly.

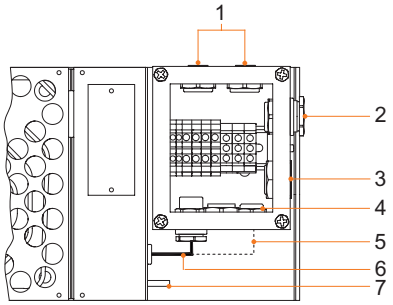


4 x Ø 6 mm mounting holes on the rear side of the heater

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Note! Never install the heater with junction box facing upwards.



1	Stopping plug M25
2	Power in M25
3	Breather M25
4	Stopping plug M25
5	*) 2x cold lead only (for sandwich design)
6	*) Cold lead
7	Earth bolt M6 x 10

*) internal cables from heater plate (installed at TRANBERG Factory)

Nominal output *)	Overall dimensions				Mounting dimensions		Weight
	A	B	C	D	E	F	
100 W	200	430	30	80	190	160	2.92 kg
200 W	240	684	30	80	440	200	4.74 kg
300 W	280	834	30	80	590	240	6.72 kg
400 W	303	684	80	80	440	276	6.44 kg
500 W	360	1004	30	80	760	320	9.32 kg
600 W	343	834	80	80	590	316	11.76 kg
1000 W	424	1004	80	80	760	397	18.50 kg

*) **Note: Nominal output at still air at 0 °C**

TEF92071001 Art. No. 220182

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.

GRP storage cabinet: DMO-35

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



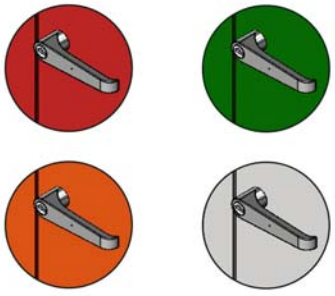
Features

Room to store
- Fire extinguisher (1 pcs DP/F/CO2)
- Survival suit (1 pcs)
- Life jacket (4 pcs inflatables)
- Escape masks (up to 10 pcs depending on type)
- Emergency Escape Breathing Apparatus

Options
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	470 x 250 x 980 mm (WxDxH)
Aperture dimensions	345 x 250 x 836 mm (WxDxH)
Angle of door opening	90°
Weight	12,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-35
IP56 rated and Lloyds certified

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