

IONIC

RESCUE

SAF38016 - Ranger 470

- Hypalon Sponsons providing superior abrasion, durability and protection against UV degradation
- Hypalon double skin Drop Thread Deck
- Inflatable V-shaped keel for shallow water operations
- 95KG allows easier manual handling
- 5 Year manufacturers warranty
- Sponson protection strake
- Underside Sponson protection
- Keel protection strake
- ISO 6185-3: 2018 Category C
- Designed & manufactured in the UK

IONIC[®]

Specialist Rescue Equipment
by Professionals for Professionals



Designed and Manufactured in the UK

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Version 1 - January 2023

The Ranger 470 Rescue Craft is designed and manufactured in the UK to meet the specific requirements of emergency service rescue teams for inland and coastal search & rescue and flood rescue operations. The design provides both stability and high speed capability and has one of the largest load capacities in its class, at 1300kg.

It is designed to be lightweight for easier manual handling and can either be trailer mounted which is recommended for larger power units or transported in a valise/stowage bag.

The high-pressure Deck and Keel design is built using a calculated interference-fit construction method, so when the sections are fully inflated, they lock into each other. Constructing the craft using this method provides additional strength and rigidity to the craft enhancing performance and stability of the craft without the need for rigid components. The Deck and Keel arrangement for this craft provide a shallow V-shape hull for high speed capability and low speed tracking.

The craft is fitted with capsized re-right lines, and external and internal lifelines that are attached to the Sponsons together with a Deck lifeline that enables operators to adopt a low brace position during adverse operating conditions.

The RANGER 470 Sponsons have five separate air chambers with interconnecting valves between each chamber. Each chamber has an inflation/deflation valve which are rated for rapid inflation using high pressure air cylinders or by using a conventional hand/foot pump. PRV's (pressure relief valves) are fitted to both the Sponsons, Keel and Deck for additional safety when inflating using compressed air cylinders.



Environmental Responsibility

RoHS Compliance Statement - Directive 2015/863 (RoHS3)

We confirm that the materials used in the manufacture of all our inflatable products conform to the requirements of the European Union's restriction on the use of certain hazardous substances in electrical & electronic equipment RoHS Directive 2015/863 (RoHS3).

REACH Compliance Statement - Directive 2008/98/EC

With regard to the list of substances SVHC (Substances of Very High Concern) listed on the site of ECHA, we confirm that our products do not contain any of the elements on the list.

Technical Data

IONIC®

Load Capacity

- Maximum number of persons 11
- Maximum payload including engine 1300kg

Dimensions / Weight

- Overall Length 4.7m
- Overall Width 2.2m
- Interior Length 3.4m
- Interior Width 1.2m
- Stowed Weight 95kg

Inflation

- Number of chambers in Sponsons 5
- Removable Inflatable Keel 1
- Inflatable high pressure Airdeck 1
- Total airtight chambers 7
- Sponson working pressure (stern) 5 psi
- Sponson working pressure (bow) 3 psi
- Deck working pressure 9 psi

Towing Points

- Bow Towing D-Ring Patches 3
- Transom Towing eyes 2

Sponsons & Deck

- 150mm (6") High pressure Airdeck
- 500mm (20") Hypalon Sponsons
- Sponsons consist of 5 chambers connected via interconnecting valves

Reinforcement

- Sponson seat patches
- Underside Sponson protection
- 110mm side Sponson protective strake
- 200mm Keel protective strake
- Transom protective plate

Valves

- Interconnecting valves on Sponsons
- Keel isolation valve
- Rapid inflation points on Sponsons & Deck
- Top up inflate/deflate points to Sponsons
- PRV's fitted to Sponsons, Keel & Deck

Transom

- 40mm heavy duty composite construction
- Aluminium outboard mounting plate
- Self-bailing deck drains
- Keel drain valve
- Towing eyes
- Engine securing point

Fabric

- Sponsons - ORCA Hypalon
- Keel - ORCA Hypalon
- Seat Patches - ORCA Hypalon
- Deck - ORCA Hypalon double skin Drop Thread

Certification

- ISO-6185-3: 2018 Category C

Packed Dimensions / Weight

- 150(l) x 80(w) x 60(h) cms
- 95KG

IONIC® RANGER 470



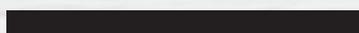
CE UK CA ISO 6185-3 CATEGORY C

MAX  +  +  = **1300KG**

MAX  **55HP 41kW 110KG**

MAX  **11**

TUBES  **0.20 BAR 3 PSI** **DECK**  **0.60 BAR 9 PSI**

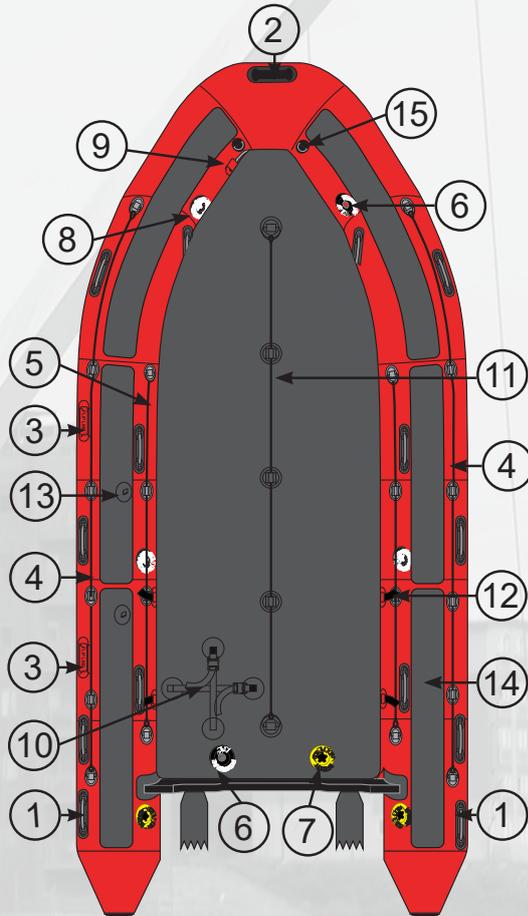
SERIAL NO 

Manufactured in the UK by Safequip Ltd
www.safequip.co.uk

**UK
CA**

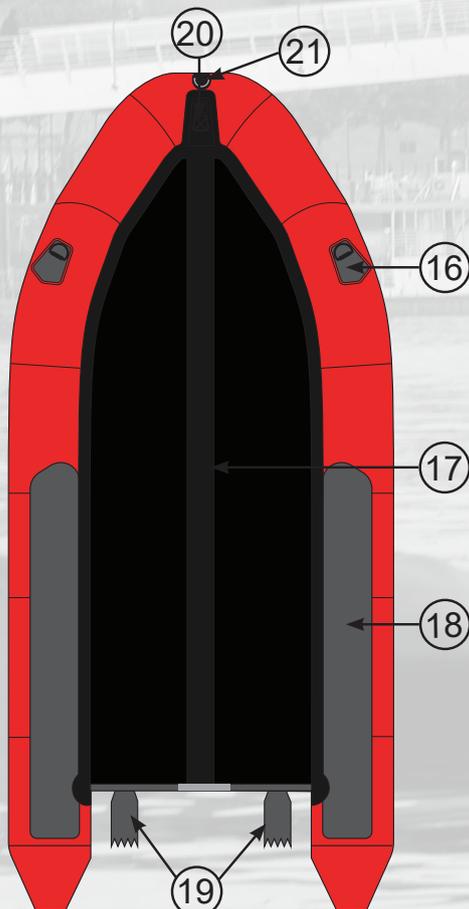
CE

**5
YEAR
WARRANTY**



Ranger 470 Features

1	Rubber Moulded Handles	14
2	Cleat Style Handle	1
3	Capsize Re-Right Lines	2
4	External Lifelines	2
5	Internal Lifelines	2
6	Pressure Relief Valves	2
7	Inflation / Deflation Valves	3
8	Top Up Inflation Valves	3
9	Keel Isolation Valve	1
10	Rigid Fuel Tank Securing Straps	1
11	Deck Life Line	1
12	Paddle Stowage Points	4
13	Fuel Bladder Attachment Points	2
14	Sponson Seat Patches	6
15	D-Ring Attachment Points	2

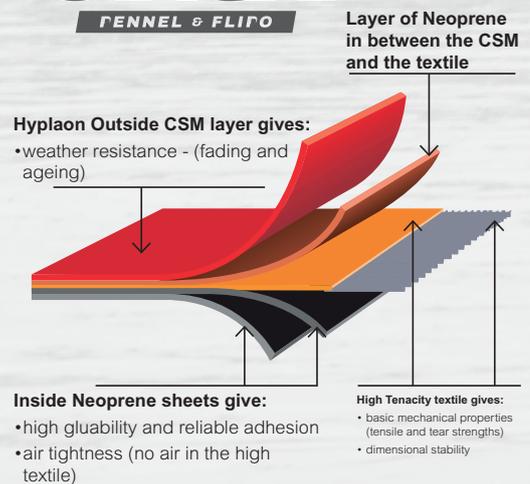


Ranger 470 Features

16	Reinforced Towing Patches	2
17	200mm Keel Protective Strake	1
18	Underside Sponson Protection	2
19	Deck Drains	2
20	Bow Handle	1
21	D-Ring Attachment point	1

ORCA

FENNEL & FLIPO



Hypalon Fabric

Manufactured by Pennel & Flipo, Hypalon is a trademark of Dupont and is the commonly accepted name for synthetic rubber coated fabrics used in the Inflatable boat Industry. There are many other names including CSM (chlorosulphonated polyethylene) and ORCA.

The manufacture of all IONIC inflatable products are manufactured using ORCA Hypalon Fabric which is extensively used in the marine industry for the manufacture of high end products and has been used for over 40 years in many diverse synthetic rubber applications. With its flexible properties and its ability to bond easily to many materials this makes it the best fabric for inflatable RIB manufacture.

Fabric Construction - Hypalon is a synthetic rubber based material with a polyester textile reinforcement and neoprene bonding layers. It's outer layer of CSM provides resistance to UV rays, abrasion, hydrocarbons and extreme temperatures.

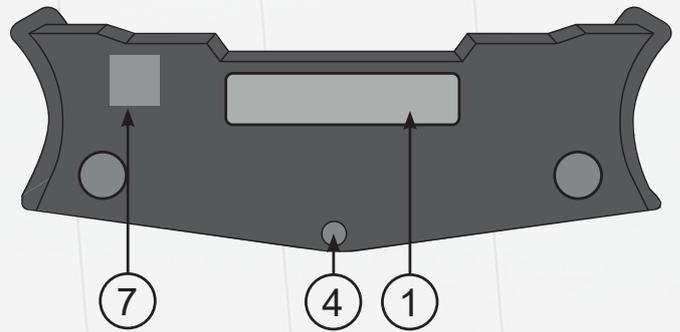
The polyester weave gives the fabric high tenacity and tear resistance which in turn provides good mechanical resistance. The neoprene in the fabric provides fire / heat resistance and also seals the fabric to make sure it is air tight. Hypalon is acknowledged as the market leader in the manufacturing of inflatable boats, ribs, sleds etc with its remarkably long life, chemical resistance, stability and abrasion resistance.

Fuel & Chemical Resistant - Hypalon is designed and engineered to ensure the highest properties in resistance to fuel making it the ideal fabric when being used with outboards

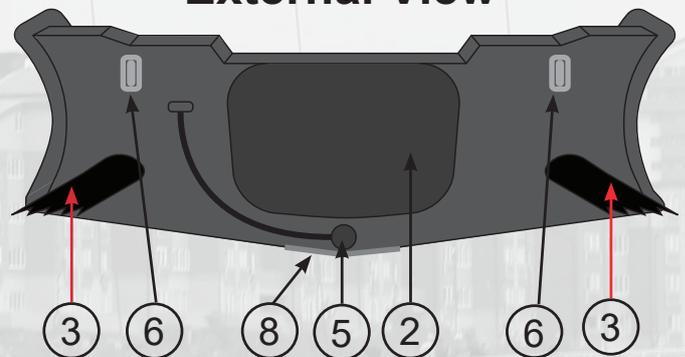
High & Low Temperature Resistance -

Hypalon has an extreme working range from - 30°C to + 150°C

Internal View



External View



Transom Specification		
1	Outboard Mounting Plate	1
2	Transom Protective Pad	1
3	Transom Drains	2
4	Keel Drain Valve	1
5	Drain Bung	1
6	Towing Eyes	2
7	Craft ID Plate	1
8	Transom Protection Plate	1



Specialist Rescue Equipment by Professionals for Professionals

Registered Office

Unit 5C
Innovate At Earls Court
Earls Gate Business Park
Grangemouth FK3 8ZE
United Kingdom

Contact Details

Tel: +44 (0)1259 727835
Email: sales@safequip.co.uk
www.safequip.co.uk

Distribution/Service Centre

Unit 3 Brunswick Park
Brunswick Industrial Estate
Brunswick
Tyne & Wear NE13 7BA
United Kingdom