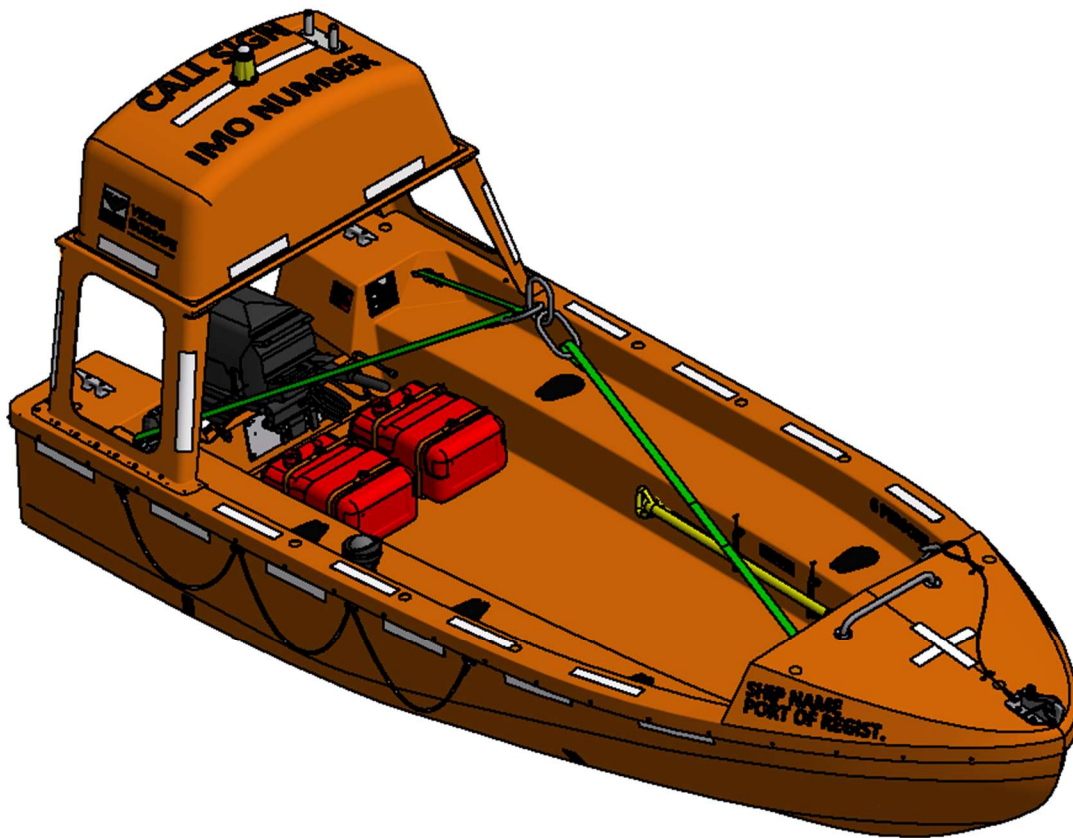




**VIKING  
NORSAFE**  
Boats and davits

Enterprise No.: NO940411696  
[www.VIKING-life.com](http://www.VIKING-life.com)

## Matrix-450 MKI, Outboard (El-start)



### TECHNICAL SPECIFICATION

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VIKING Project No.: TBA  
Rev. Date: 28.02.2022

VIKING Doc. No.: TSB-1298  
Rev. No: 1

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# 1. REGULATION AND CERTIFICATION

**Applicable rules and regulations** In accordance with IMO/ SOLAS requirements, LSA Code and European Council Directive 2014/90/EU on Marine Equipment (MED)

<b>Certificate</b>	MED
<b>Other certificate</b>	Class certificate or flag acceptance on request

## 2. BOAT SPECIFICATION

### 2.1. GENERAL BOAT

Type	Rescue Boat
<b>Model</b>	Matrix-450 MKI Outboard
<b>Length overall</b>	4,50 m
<b>Length on fender</b>	4,50 m
<b>Breadth</b>	1,96 m
<b>Height</b>	1,96 m
<b>Capacity, SOLAS minimum</b>	6 Persons
<b>Capacity, maximum</b>	6 Persons
<b>Weight, fully equipped</b>	535 kg
<b>Davit load, with 6 pers@82,5 kg</b>	1.030kg
<b>Color</b>	Orange (RAL 2004)
<b>Operation temperature:</b>	-15°C till +40°C
<b>Hull/deck material</b>	Fire retardent glass reinforced polyester (GRP)
<b>Buoyancy material</b>	Polyurethane foam
<b>Self-righting frame</b>	Fire retardent glass reinforced polyester (GRP)
<b>Bollards/towing</b>	Aft bollard P & S, painter hook in bow
<b>Steering</b>	Tiller
<b>Deck</b>	Self-bailing
<b>Loose equipment</b>	According to SOLAS

Rescue boat designed and manufactured according to latest SOLAS/IMO requirements.

The rescue boat has excellent reliability, maneuverability, and sea keeping abilities in order to fulfil its prime function - to provide an effective means of search and recovery for persons missing at sea. Design and construction fulfil the need for reliable, low maintenance standby and operation. When installed with an approved davit, the boat fulfils the requirements for rescue boats on commercial vessels.

The boat is further designed to serve the search and rescue role, with deck layout allowing the crew to operate efficiently and comfortably over long time periods. The layout and performance of the boat ensures good diving support, survey and work boat duties.

The hull is a fully planning, giving optimum sea keeping ability at all speeds in all sea conditions.



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The space between hull and inner liner is filled with polyurethane buoyancy foam. If damaged below the waterline, the boat will float at safe level in fully flooded and loaded condition. The boat is self-bailing through two drainage outlets at the stern. The deck has an anti-slip surface. Lifelines are fitted on the gunwale.

Lifting is made by three point arrangement, installed on forward point and aft each side point of the deck. There is a painter hook in bow and bollards on each side astern.

The boat has been designed to provide a protected and safe working environment for the crew, engine and equipment.

## 2.2 PROPULSION AND PERFORMANCE

<b>Propulsion</b>	Outboard Engine, Electrical-Start
<b>Engine size</b>	Engine outboard Mercury 25ELH EFI, 4-stroke
<b>Speed, with 6 persons</b>	Minimum 6 knots
<b>Bollard pull</b>	Approx. 1.23 ~1.5 kN
<b>Propeller protection frame</b>	AISI 316
<b>Cooling system</b>	Sea water circuit cooling
<b>Engine freshwater flushing</b>	Extra flushing equipment
<b>Fuel tank</b>	50L
<b>Fuel valves</b>	Quick connector

*Typical data – subject to variation in engine installation and specified equipment. Please note that boat weight, bollard pull and speed are only for reference and may vary with several factors.*

## 2.3. RELEASE SYSTEM

<b>Lifting hook</b>	Three-point lifting slings with ring
<b>Height, keel to lifting point</b>	1.75 m

## 2.4. ELECTRIC SYSTEM AND NAVIGATION

<b>Electric power supply to boat</b>	42 VAC
<b>Electric system voltage</b>	12 VDC
<b>Cables type</b>	Marine type, flame retardant halogen free
<b>Position light</b>	12 VDC on top of self-righting frame
<b>Search light</b>	12 VDC handheld
<b>Compass light</b>	12 VDC inside compass
<b>Loose el. Cable for power supply</b>	Socket with 15m cable.

## 2.5. DOCUMENTATION



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## 5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe Matrix-450 fits below davit models and variants.

<b>NDA-16</b>	SOLAS
<b>NDSC-25</b>	SOLAS
<b>NDSC-34</b>	SOLAS
<b>NRC-25</b>	SOLAS
<b>NRC-34</b>	SOLAS
Others on request	

## 6. YARD SUPPLY / RESPONSIBILITY

<b>Transport</b>	Depending on contract
<b>Fuel</b>	Marine Gasoline according to engine manual specification
<b>Connection cable</b>	From starter cabinet to rescue boat supply plug