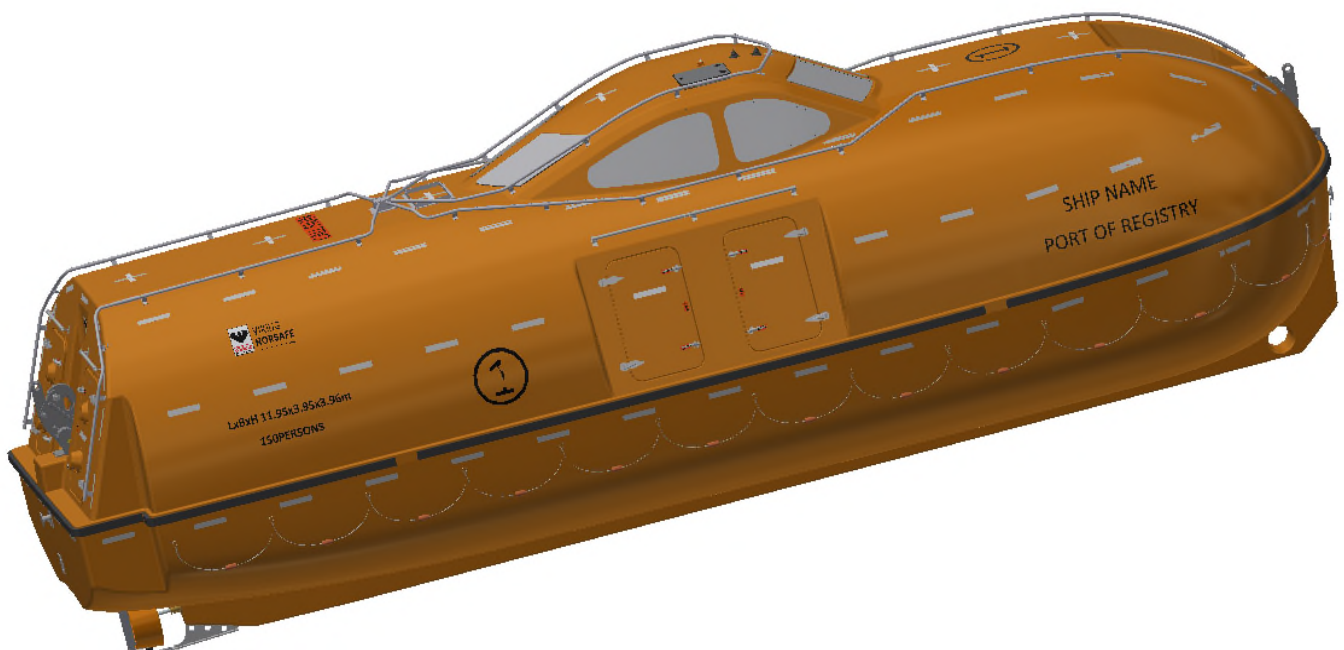




**VIKING
NORSAFE**
Boats and davits

Enterprise No.: NO940411696
www.VIKING-life.com

MAXIMA-120 MKI Davit Launching Lifeboat



TECHNICAL SPECIFICATION

VIKING Norsafe Life-Saving Equipment Norway AS
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VIKING Project No.: TBA

VIKING Doc. No.: TSB-0013

Rev. Date: 12.08.2019

Rev. No: 2

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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)
Certificate	MED
Other certificate	Class certificate or flag acceptance on request

2. BOAT SPECIFICATION

2.1. GENERAL BOAT

Type	Totally Enclosed Life Boat (TELB)
Model	MAXIMA-120 MKI
Length overall (on fender)	12,02 m
Length of hull	11,95 m
Beam	3,95 m
Height	3,96 m
Hook distance	11,20 m
Hook height aft & forward	2,40 m
Capacity, SOLAS maximum	150 persons
Weight, fully equipped	10.225kg
Davit load, with 150pers@82,5 kg	22.600 kg
External Color	Orange (RAL 2004)
Internal Color	Light Gray (RAL 7032)
Operation temperature:	-15°C till +40°C (other range on request)
Hull/deck material	Fire retardant glass reinforced polyester (GRP)
Buoyancy material	Polyurethane foam
Windows	Polycarbonate
Bollards/towing	Aft bollard, painter hook in bow
Steering	Hydraulic
Fender	PVC-fender
Skates / bobbins	If lifeboat is to be installed on a vessel
Hatches	2 aft doors / 2 side door each side / 1 top hatch / 1 front top hatch
Sprinkler pipe system (tank ver.)	Seawater resistant aluminum piping, stainless steel deflectors
Sprinkler pump (tank ver.)	Belt connection to engine
Sprinkler shut-off valve (tank ver.)	Ball valve 4"



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Compressed air system (tank ver.)	6 x 50 liter air bottles, air regulator and high pressure hoses
Under/overpressure valves	Automatic spring loaded on canopy
Loose equipment	According to SOLAS

Totally Enclosed Lifeboat (TELB) designed and manufactured according to latest SOLAS requirements.

The lifeboat provides a secure and protected means of escape for persons onboard vessels or platforms. The lifeboat is for launch and retrieval by a suitable davit. Design and construction fulfil the need for reliable, low maintenance standby and operation.

The space between hull and hull liner, and between deck and deck liner, is filled with polyurethane buoyancy foam. In fully flooded and loaded condition, the lifeboat is self-righting. If damaged below the waterline, buoyancy is sufficient to float the boat at safe level.

When installed on ship's side, the boat is fitted with a shock absorbing fender and skates.

The lifeboat is fitted with approved On Load Release Hooks with a hydrostatic Interlock. The hook release is operated by a handle mounted at the steering position. The mechanism provides simultaneous release of the two hooks when the lifeboat is fully water-borne. The hooks are protected from accidental release by the hydrostatic interlock. On-load release of the hooks are possible by manual override, but the system is secured against accidental release.

Prime embarkation to the lifeboat is through the side hatches. Additional access is via a large embarkation after door. The side hatches allow pick up operations.

All seating positions have 4-point safety belts of alternating color.

The lifeboat is equipped with mechanical steering. A steering nozzle gives optimum maneuverability and increased bollard pull. The steering position is at the aft of the boat.

2.2 PROPULSION AND PERFORMANCE

Propulsion	Diesel engine with gearbox, shaft, propeller and propeller nozzle
Engine	NLDE-4(N485J-3), 30,0 kW
Gearbox	ZF12M
Propeller	Brass, 18 inch.
Propeller nozzle	GRP
Speed	Minimum 6 knots in calm water
Bollard pull, approx.	5400 N (NLDE-4)
Instrument gauges:	Tachometer (subject to standard engine type), audible alarm for temperature and oil pressure
Cooling system	Fresh water cooling with header tank and external cooling loop



Exhaust system	Dry exhaust with water lock to prevent water ingress
Fuel tank	240 L, Seawater resistant aluminum
Fuel valves	Shut off on top of fuel tank & tank drain

Typical data – subject to variation in engine installation and specified equipment. Engines of at least 30kW can be installed. Please note that boat weight and bollard pull are only for reference and may vary with several factors.

2.3. LIFTING/RELEASE SYSTEM

Release system	Release hooks, release handle unit, hydrostat and cables
Release hooks	Tor Mk2-S

2.4. ELECTRIC SYSTEM AND NAVIGATION

Electric power supply to boat	42 VAC male and female connectors included (Power delivered from Norsafe davit starter cabinet)
Electric system voltage	12 VDC
Cable type	Marine type, flame retardant halogen free
Position light	12 VDC on top of canopy
Search light	12 VDC handheld
Cabin lights	12 VDC
Compass light	12 VDC inside compass
Bilge pump	Manual
Alternator	For 12 VDC system
Batteries	Main and secondary start battery
Switches	Main switch / Secondary switch / Electrical consumers switches
Electric power supply to boat	42 VAC male and female connectors included (Power delivered from Norsafe davit starter cabinet)

2.5. DOCUMENTATION

Technical specification boat	According to contract specification
General arrangement drawing	According to contract specification
Seating plan	According to contract specification
Electrical system drawing	According to contract specification
Product certificate	According to contract specification
Lubrication oil chart	Norsafe standard
Spareparts list	Norsafe standard
Operation & Maintenance man.	Norsafe standard
Sprinkler system drawing	Norsafe standard (tank version only)



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Compressed air system drawing	Norsafe standard (tank version only)
Lifting arrangement drawing	Norsafe standard
Skate/pin lashing drawing	Norsafe standard
SOLAS loose equipment list	Norsafe standard
Preservation & storage procedure	Norsafe standard

3. PACKING

Packing

Secured in transport cradle

4. OPTIONS

Note: Some options influence weight and performance, some option combinations may be incompatible. Maximum certified weight must not be exceeded.

marking means to be supplied by maker, marking means not supplied by maker.

GENERAL BOAT	
Spare parts for 2 years, 5 years or 10 years	<input type="checkbox"/>
Seat padding	<input type="checkbox"/>
Sprinkler system in stainless steel	<input type="checkbox"/>
Remote sprinkler operation	<input type="checkbox"/>
De-humidifier	<input type="checkbox"/>
HVAC connection	<input type="checkbox"/>
Compressed air filling hose	<input type="checkbox"/>
Labelling in dual language	<input type="checkbox"/>
Plastic shrink wrap	<input type="checkbox"/>
Handrails in stainless steel	<input type="checkbox"/>
Pin lashing brackets	<input type="checkbox"/>
Hatches, additional/larger aft/side hatches available	<input type="checkbox"/>
Winterization package / cold climate heating / defroster	<input type="checkbox"/>

PROPULSION AND PERFORMANCE	
Fuel level instruments	<input type="checkbox"/>
Oil pressure instruments	<input type="checkbox"/>
Water temp. instruments	<input type="checkbox"/>
Rudder pos. instruments	<input type="checkbox"/>
Spring starter	<input type="checkbox"/>
Dual oil filters	<input type="checkbox"/>
Stainless steel fuel tank	<input type="checkbox"/>



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ELECTRIC SYSTEM AND NAVIGATION

AIS system	<input type="checkbox"/>
12V outlet in console	<input type="checkbox"/>
Ex plug for ext. power supply	<input type="checkbox"/>
Ex cover over marking light	<input type="checkbox"/>
Ex battery box	<input type="checkbox"/>
Bilge water detector in engine room	<input type="checkbox"/>
Crew finder	<input type="checkbox"/>
Echo sounder	<input type="checkbox"/>
Cabin heater	<input type="checkbox"/>
Engine heater	<input type="checkbox"/>
EPIRB	<input type="checkbox"/>
Fire detector in engine room	<input type="checkbox"/>
GPS equipment	<input type="checkbox"/>
HID or LED searchlights	<input type="checkbox"/>
LED illumination in engine room, inst. panel or cabin	<input type="checkbox"/>
Loose el. cable for ext. power supply	<input type="checkbox"/>
Electrical system according to NMD requirements	<input type="checkbox"/>
SART	<input type="checkbox"/>
VHF equipment	<input type="checkbox"/>

DOCUMENTATION

Factory acceptance test procedure	<input type="checkbox"/>
Factory acceptance test report	<input type="checkbox"/>
Inspection and test plan	<input type="checkbox"/>
Shipping, handling and lifting procedure	<input type="checkbox"/>
Packing & unpacking procedure	<input type="checkbox"/>
Commissioning procedure	<input type="checkbox"/>
TAG list	<input type="checkbox"/>
Fuel system drawing	<input type="checkbox"/>
Steering system drawing	<input type="checkbox"/>
Engine, propulsion, exhaust and cooling system drawing	<input type="checkbox"/>
Bilge system drawing	<input type="checkbox"/>
Release system drawing	<input type="checkbox"/>
Noise test report	<input type="checkbox"/>
Weight and COG datasheet	<input type="checkbox"/>
Weighing report/certificate	<input type="checkbox"/>
Other drawings/documentation/procedures	<input type="checkbox"/>

5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe MAXIMA-120 MKI fits below davit models and variants.

LH-230	LHD-230
C-230	Others on request.

6. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Fuel	Marine diesel oil according to engine manual specification
Installation of 42VAC Supply cable	From starter cabinet to lifeboat supply plug
Testing according to regulation after installation onboard	
Preservation and maintenance after boat arrived yard and installed	