TECHNICAL SPECIFICATION

Boat type: RSQ 450 A

Boat design / purpose: Rescue boat / workboat
Hull material: Aluminium
Engine configuration: Outboard engine
Propulsion: Propeller
G.A. drawing no.: 3FA-100013

Revision status

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Revision date</th>
<th>Description of revision</th>
<th>Issued by:</th>
<th>Checked &amp; approved by:</th>
</tr>
</thead>
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<tr>
<td>0</td>
<td>07-12-2010</td>
<td>First release</td>
<td>D.Kleut</td>
<td>M v/d Ham</td>
</tr>
</tbody>
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Document no. TS002RSQ450A-1
Introduction
The RSQ 450 A has been designed for long time heavy duty operations under adverse and extreme weather conditions. It has been designed especially to rescue people in distress as well as to marshal life rafts. The rescue boat is capable of carrying at least 5 seated persons and 1 person lying on a stretcher. The RSQ 450 A is a rigid rescue boat, completely made of seawater-resistant aluminum. The main advantage of this aluminum is that it hardly requires maintenance and has a much longer lifecycle. Contrary to the conventional rescue boats like GRP and Inflated ones, the influences of ultraviolet rays and seawater are totally negligible, which obviously works out well to the life span of the RSQ 450 A. The hull of the RSQ 450 A is a so-called “double hull” construction. The hull is divided into several compartments. It has been built-up of seawater-resistant aluminum plates to a solid and rigid frame construction. All compartments are fully air tight. Marshaling or towing of life rafts can be done by using the two bollards which are permanently fitted at the stern of the rescue boat.
It shall be clear that the capacity of the outboard motor depends on the size of the largest life raft. The RSQ 450 A has been executed with one aft bench and two seats in the front. Between the front seats there is a safe and easily accessible area to the person lying on the stretcher. The aft bench is permanently fitted and fully integrated into the hull construction. The aft bench offers seating for 2 persons. Although the rescue boat has adequate sheer, it has been provided with a bow cover to protect the crew from water spray. Nevertheless, the deck has been provided with a non-skid surface and is automatically self-bailing by means of two bailer hoses.

Requirements
The RSQ 450 A is designed, built and equipped to comply with the following requirements:
SOLAS 74 Convention as amended, Regulation III/4, X/3, III/21, III/31 and III/34
IMO Res. MSC.48(66) as amended by MSC.207(81), MSC218(82) and MSC.274(85)
IMO Res. MSC.36(63)-,(1994 HSC Code) 8
IMO Res. MSC.97(73)-(2000 HSC Code) 8
IMO Res. MSC.81(70) Part 1. As amended by MSC.200(80), MSC.226(82) and (MSC.274(85)
IMO MSC/Circ.1006 and IMO MSC/Circ.980.
It is also approved acc. the latest amendments with a person weight of 82.5 kg each person.

Measurements
<table>
<thead>
<tr>
<th>Hull material</th>
<th>Sea water resistant aluminium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length overall</td>
<td>max 4875 m (depending on engine type)</td>
</tr>
<tr>
<td>Length hull</td>
<td>4320 m</td>
</tr>
<tr>
<td>Beam overall</td>
<td>1750 m</td>
</tr>
<tr>
<td>Height keel to lifting point</td>
<td>1633 m (for 40HP &amp; 50 HP engine)</td>
</tr>
<tr>
<td>Height keel to lifting point</td>
<td>1513 m (for 15HP &amp; 25 HP engine)</td>
</tr>
<tr>
<td>Boat weight incl. equipment</td>
<td>485 Kg (excl. persons incl. 50 HP engine)</td>
</tr>
<tr>
<td>Total weight with ( incl. 6 pers.)</td>
<td>15 HP OB engine, 919 kg</td>
</tr>
<tr>
<td></td>
<td>25 HP OB engine, 941 kg</td>
</tr>
<tr>
<td></td>
<td>40 HP OB engine, 960 kg</td>
</tr>
<tr>
<td></td>
<td>50 HP OB engine, 959 kg</td>
</tr>
<tr>
<td>Bollard pull</td>
<td>depends on engine size, from 1060N till 2200N</td>
</tr>
</tbody>
</table>

Hull construction/deck
V-shaped double hull construction executed with stern recess and bow cover. A weather tight stowage compartment for small equipment is located underneath this bow cover and the aft bench. The hull is built-up of 4 mm seawater resistant aluminum plates (AlMg4.5) and is divided into several compartments. To create a solid and rigid construction, the hull is provided with stiffeners in transversal and longitudinal directions. Tie down pad eyes attached to hull for securing to deck.

Outboard motor

Document no. TS002RSQ450A-I
The RSQ 450 A is supplied with a SOLAS approved long tail outboard motor with single propeller propulsion. Starting the motor is done manually by means of a starter rope. For safety reasons the outboard motor is supplied with a safety stop switch and lanyard. In the unfortunate event of falling overboard, the safety stop switch will be activated automatically and the engine stops immediately. To protect people in the water from getting injured by the rotating propeller, the propeller has been equipped with a propeller guard. The fuel tank are stowed underneath the aft bench of the rescue boat and are lashed down securely by means of straps. The RSQ 450 A can be equipped with outboard motors of different brand names and outputs up to 50 horsepower (HP). In most common cases the RSQ 450 A is supplied with a 2-stroke motor of 25 HP. Fast RSQ has exclusive rights for supplying Selva Marine SOLAS approved outboard engines however other outboard manufacturers can be supplied as well.

**Stowage facilities**
A weather tight stowage compartment is located underneath the bow cover of the rescue boat. In this compartment all SOLAS rescue boat inventory can be stowed away. A second stowage facility can be found underneath the aft bench (for stowage of fuel tank).

**Lifting arrangement**
The rescue boat is equipped with a certified 4-point lifting sling suspension. The certified slings are made from high quality nylon straps. The lifting shackles are made of stainless steel 316.

**Painter facilities**
The RSQ 450 A is fitted with a painter device on top of its bow cover. This painter device is of sufficient strength to withstand the towing forces when the rescue boat is being towed by the mother ship making headway at speeds up to 5 knots in calm water. The painter device consists of a stainless steel painter hook which can be released at all times from inside the rescue boat by means of a pull cord.

**Retro-reflective materials**
The RSQ 450 A is fitted with SOLAS self-adhesive seawater resistant retro-reflective materials in order to detect the rescue boat from all directions, even if it has been capsized.

**Rescue boat markings/lettering**
The rescue boat is provided with the following markings/lettering:
- Number of persons for which the rescue boat is approved;
- Ship’s name;
- Port of registry;
- Call sign.
Due to logistic reasons, the above mentioned markings/lettering will be applied only in case they have been confirmed to us in writing not later than three weeks before the agreed delivery date. Information received after this date shall not be processed anymore.

**Towing facilities**
Two bollards of sufficient strength to marshal or to tow life rafts are fitted permanently at the stern of the rescue boat. These bollards are made of polished stainless steel 316.
- 1 Boarding ladder
- 1 Bucket
- 1 Electric watertight torch incl. spare batteries
- 1 First Aid Kit
- 1 Floating rope L=50m
- 1 Floating whistle
- 1 Floating knife
- 1 Paddle
- 1 Paddle incl. boathook
- 1 Painter line L= 10m
- 1 Rescue equipment bag
- 2 Rope with Buoyant ring L=30m
- 1 Sea anchor L=30m
- 1 Water bailer
- 1 Position indicating light 5V incl. battery
- 1 Radar reflector mounted on the stern
- 1 Searchlight incl. battery box
- 1 Thermo Protective Aid
- 1 Portable fire extinguisher
- 1 Portable compass

Optional equipment

- Rescue net
  This RSQ-net is a rescue net that has been designed for safe and quick recovery of a drowning person from the sea. It will be delivered in a weather tight stowage bag and can be fitted permanently into the rescue boat.
- Boat cover
  To protect the complete boat against weather influences
- Engine cover
  To protect the outboard engine against weather influences
- Boat cradle
  Unless integrated into its launching device, the RSQ 450 A can be supplied with a boat cradle for safe and adequate installation on deck.
  There are two different cradles available, a fixed type and a releasable type. In case the rescue boat is launched by means of stored power, the cradle must be a releasable one.
- Non-standard outboard motors
  Upon request.
- Steering Console
  Upon request.