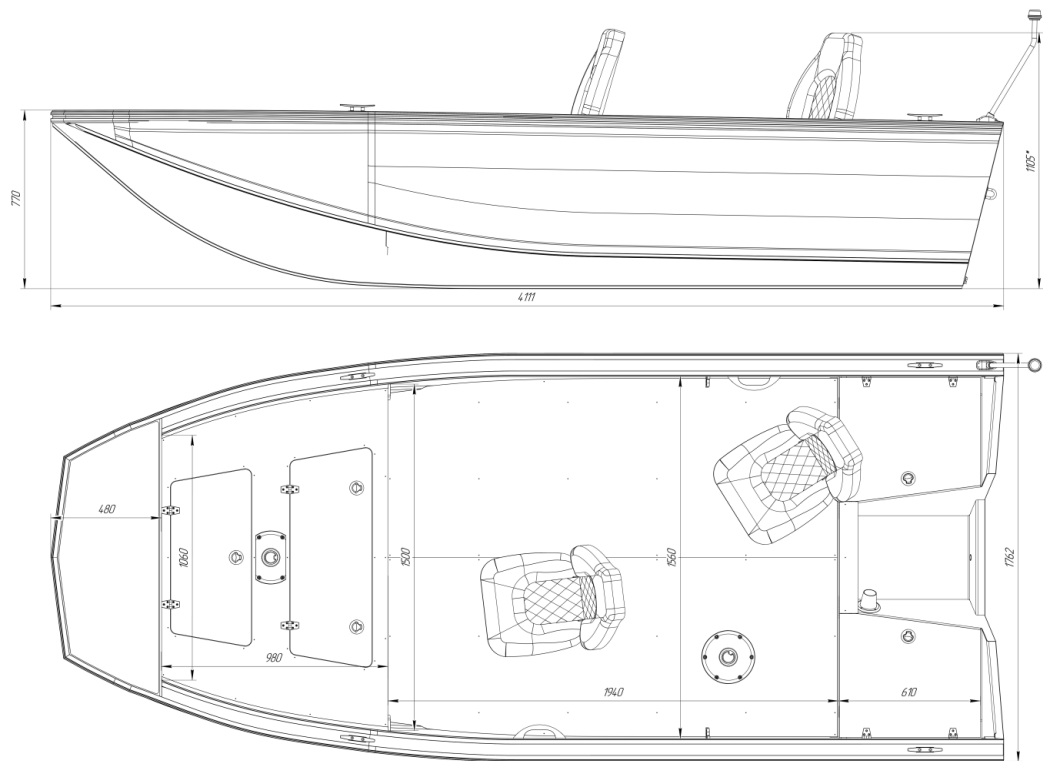




VIZION 410



OWNERS MANUAL



VIZION 410 Motorboat Diagram

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## 1. GENERAL GUIDELINES

VIZION 410 motorboat (further on – motorboat) is to be used in freshwater and seawater in temperate and rigorous climate areas with air temperature ranging from -5°C to +40°C, in coastal waters, gulfs, water storage basins, lakes and bigger rivers with no more than a force 6 wind ( $\leq 10,8$  m/s) and no more than 2 meters wave height. The boat is meant for tourist rides and trips, water recreation, fishing, hunting, transportation of general-purpose cargos. The boat can be used for water area patrolling by the representatives of various supervisory authorities, in business purposes, for the transportation of people, as a crew and utility boat.

## 2. TECHNICAL DATA

table 1

Total length, mm	4100
Total width, mm	1780
Hull height in midsection, mm	750
Transom height, mm	380
Category	C
Hull composite material	AL 5083 H111
Transom deadrise	8°
Load limit (weight of passengers and luggage), kg	350
Seating capacity	3
Outboard motor power allowance, HP	30
Maximum permitted weight for motor, kg	100
Weight of rigged hull (excluding outboard motor), kg	from 220

### 3. DELIVERY SET

Delivery set includes:

- assembled boat (without outboard motor).
- datasheet – owners manual.

### 4. HULL ARRANGEMENT

The hull of the boat has sharp lines ( transom deadrise  $8^{\circ}$  ) that ensure high dynamic characteristics, water gripping sponsons and splash boards. The hull is made of aluminum-magnesium alloy 5083 H111 (or its analogue).The main principle of structural connection is electric arc welding in inert-gas environment. The hull strength and reliability is ensured by the hull arrangement that is enhanced by longitudinal and transverse frames in the area of bilge, deck and sides. Bilge space is filled with foam polyurethan that guarantees positive buoyancy, resistance to flooding and damage stability of the boat in accordance with EU ISO 12217-3:2017. The boat is equipped with navigation lights, bilge water removal system (electrical pump 33 l/min), cleats, a box (tray) for the accumulator and cords, as well as battery switch. The outboard motor is to be installed on the transom that is strengthened by a high-duty water resistant plywood. The hull consists of four parts: forepeak, front cockpit, aft cockpit and submotor niche. In its console construction the boat is provided with driver's and passengers' consoles that have a folding door between them.

Trunk boxes and an aerated cage are in the front cockpit. A box for spinning rods and side niche areas for various small things are in the aft cockpit. Fuel tank compartment, battery box and a trunk box for various things are on the back platform. The lids of trunk boxes and floorboards are made of water resistant laminated plywood ( 9 mm thick ) with nonskid surface.


## 4. 1 BASIC HULL PARAMETERS

- bottom plating, transom – 2 mm;
- sides plating – 2 mm;
- longitudinal and transverse frames – 2 mm;
- water gripping sponsons – angle 50 x 30 x 3 mm;
- stringers – U-bar 30 mm x 50 x 30 x 3 mm.

Behind the aft bulkhead there is a self-draining submotor recess; steering rope (in the console construction) and outboard motor control wires and cables (not included into the delivery set) are connected to the recess through grease-retainers.

A drain hole with a caprolon plug is installed on the back of the boat, in the bottom part of the transom. Drain hole is meant to drain the water leftovers when bringing the boat ashore.

## 5. STEERING AND POWER SYSTEMS

An outboard motor (not included into the delivery set) with power allowance not more than  IP is to be installed on the boat.

In the back part of the boat there is a standart fuel tank . Tank filler neck is located in the back part of the boat.



*If you spilled fuel under the floorboards or trunk boxes while filling the tank or due to careless handling of fuel storage containers, wash the fuel off with water immediately and pump it out right away with the help of a bilge pump. Open the hand hole of the recess and ventilate the boat. Melting of the shell of the bilge pump due to its prolonged exposure in the fuel is not a warranty case.*



## **ATTENTION!**

Due to the high burnability of fuel and its vapors follow the fire safety rules when filling the fuel tank.

## **6. ELECTRICAL EQUIPMENT**

*Engine start, lighting, emergency lighting and power supply for electrical loads is performed by the 12V accumulator battery (not included into the delivery set).*

Electrical equipment includes:

- switches;
- appliance receptacles for external electrical appliances (12V);
- electrical pump;
- electrical pump for aerated cage;
- navigation lights;
- parking light;
- fuel level sender and indicator (optional);
- voltage meter (optional);
- battery switch.

Electric power supply for the standard appliances of the boat is secured by automatic shutdown devices (10A) and a general automatic shutdown device (15A) that are installed under the driver's console.



«+» voltage source is always connected to the battery switch and further on to powering the electrical equipment and the outboard motor.

«-» voltage source is connected to the terminal screw and further on to the electrical equipment and the outboard motor.

Electrical equipment connection pattern is shown in Diagram 1.

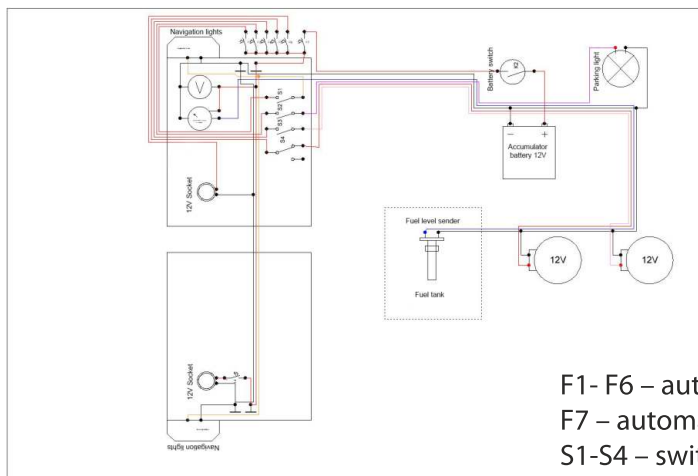


Diagram 1. Connection pattern

F1- F6 – automatic shutdown devices 10A

F7 – automatic shutdown device 15A

S1-S4 – switches



Manufacturer has the right to make alterations in the electrical diagram of the boat without notification.



## 7. MOTOR INSTALLATION GUIDELINES

To ensure the correct installation and good performance of the outboard motor it is strongly recommended that the motor and its associated parts and accessories are installed by a qualified specialist. Improper installation of the motor can lead to degradation of control effectiveness, control failure and fire danger.

If you are installing the outboard motor independently on your own follow the guidelines that are provided by the «Outboard Motor Installation Manual» that goes along with the motor.

## 8. SAFETY REQUIREMENTS

The construction of the boat meets the safety requirements pointed out in Directive 2013/53/EU and ensures safe operation if the following rules are observed:

- outboard motor power allowance must not exceed the one indicated in Table 1 of the present Datasheet;
- it is prohibited to run the boat in reservoirs with wave elevation more than 2 m;
- it is prohibited to run the boat if the recommended seating capacity (3 people) is exceeded;
- exceedence of the load limit (weight of passengers and luggage – not more than 350 kg) is prohibited;
- follow the fire safety rules and environmental safety rules when filling the outboard motor or fuel tank with fuel or oil;
- do not get up from seats or walk around the boat while on the move;
- it is prohibited to run the boat without personal floating devices provided for each passenger;
- it is categorically prohibited to stay in the front cockpit on the move (faster than 5 km/h);
- it is categorically prohibited to allow a person with no boat driving licence or a drunken person steer the boat;
- lessen speed when approaching watercrafts and swimmers.

### *Maneuvering at speed*



**Warning:** *do not try to maneuver at high speed before you explore the performance capability and all the options of the motorboat.*

Control the steering, never let the steering wheel go. Always warn the people on board before performing any maneuver at speed. In case of normal weather you can perform an S-shaped maneuver, not lowering the speed in which you go on the straight. Other more sharp maneuvers are performed by means of regulating the motor capacity. Reduce the capacity with no glisade loss, then drive into the curve. Increase the capacity, come out of the curve in order to reach previous speed.



In order for the boat owner to ensure safety during trips it is necessary to equip the boat with:

- life jackets (for each person on board).

To ensure safety during boating in sea areas it is necessary to equip the boat with:

- waterproof communication means (radio equipment) that provide safety data information including weather forecast;
- magnet compass;
- 2 life rings with lights, a drag-sheet and a line not less than 20 m in length;
- 3 red parachute flares;
- 4 white false fires;
- 4 red false fires;
- heat-shielding products (for each person on board).

Before starting off please make sure that:

- the motorboat, motor and accumulators are in good condition;
- navigation lights and water pump function normally;
- there is enough fuel in the fuel tank;
- life jackets and other rescue equipment is on board;
- the plugs of the hull (drain plugs) and waterproof compartments, as well as the valve caps of inflatable

*compartments are closed tightly;*

*- the anchor and mooring ropes are fixed on the boat;*



**Warning:** *before starting your trip make sure that all the passengers are familiar with the rules of conduct on a small vessel, they have comfortably taken their seats and put the life jackets on. Surely check if the fire-fighting and emergency equipment is on board.*

The use of the boat is prohibited if the following defects and disturbances are seen:

- blowholes or breaches in the frames or hull plate (independently of their location);
- lack of or depressurization of pressurized compartments and air boxes that are provided for by the design of a small vessel;
- full rudder angle (35 degrees for each side) is not provided, wheel turning is obstructed;
- rudder blade or parts of rudder gear are damaged;
- fuel leak from the tanks or power system hoses;
- the vibration of motor or outboard motor exceeds acceptable values pointed out in the service documentation;
- remote engine control system is damaged.

## 9. TRANSPORTATION AND STORAGE

The boats can be transported by any means of transport with observance of shipping rules that are valid for a particular type of transport. In any case secure mounting must be ensured for the boat to provide for its undamaged condition. During the operation process it is necessary to keep track of the condition of the hull and the equipment of the boat, patch the damage in due time. After a trip clean the boat out from dirt, remove water from the hull, wash with water if necessary. If the boat is to be placed into long-term storage, drag it out of water, perform fault detection and do all the necessary repairs. It is recommended to store the boat (position – keel downwards) in enclosed space or under roof that will protect it from atmospheric precipitation. It can also be stored in open

spaces if the boat is fully hidden under a cover. During storage periods deenergize the boats electric system by means of battery switch. When storing the boat on the shore level it up from the ground by placing keel blocks, tyres or planks under it.

## 10. ENVIRONMENTAL PROTECTION

During the operation process all the fuel oil residues, dirty water, trash, edible wastes as well as pollutant substances must be kept on board.

In order to prevent water pollution during the operation process it is necessary: while the engine is on and the motor is running, every once in a while check the condition of fuel system connections and if any fuel leaks are found, take remedial actions immediately. If it is impossible to correct the trouble while the motor is running, it must be stopped in order to find out the reason of the defect and prevent fuel intrusion overboard.

## 11. MAINTENANCE SERVICE

After every use of the motorboat perform visual analysis of the surface in order to find out whether there is any damage, to check all the main fuel system and power system parts, as well as fix the problems and do the repairs if necessary. The boat must undergo maintenance service (diagnostics, MOT test and remedial maintenance if any damage is found) in authorized maintenance centers.

## 12. DISPOSAL

A decommissioned motorboat must be disposed. The owner of the small vessel is responsible for its disposal. Small vessels must be disposed in specially equipped places. The disposal process of small vessels in normal conditions as well as in an emergency must be safe for people.

### 13. MANUFACTURER'S WARRANTIES

Guarantee service life – 10 years from the day of purchase for the hull and 24 months from the day of purchase for the components and paint-and-laquer coating. During the warranty period manufacturer performs the maintenance free of charge or replaces the boat if the vessel has got a marking plate on it and if the client presents the Vessel Datasheet, and if all the operation, transportation and storage conditions have been observed. Manufacturer is not responsible for and does not repay for the defects that appeared through user's or trading company's fault during careless transportation, improper storage and operation, due to mechanic damage of the boat or inobservance of the requirements of the present Datasheet. The wind-screen is made of polycarbonate (acryl), its peculiarities do not allow any contact with chemical solvents (acetone, benzine, diluents and other aggressive chemical substances). The damage caused to the product as the result of such contact is not a warranty event. Other interior and boat construction elements made of plastic or composite materials must not make contact with chemical solvents. Manufacturer is not responsible for any consequences, including harm done to the third persons, if these consequences came as the result of noncompliance with operation, transportation and storage rules, use of the boat for purposes other than intended, as well as any changes made in the construction of the boat or its equipment without consent of manufacturer. All the changes in the boat's construction, equipment or tooling as well as removal of any faults or damage must be consented with manufacturer in written form. The absence of such consent deprives client of the right to get warranty repair.

#### *Inspection of a finished product*

Before being handed over to the buyer each motorboat undergoes acceptance testing that includes: appearance and external surface inspection, welds quality inspection and composition check.

For warranty repair contact us:

163A Atbrīvošanas alley, Rezekne, LV-4604, Latvia

Phone: +37129419709, [www.vizboat.com](http://www.vizboat.com)



By that we, "FISHBOAT" LLC, 9B Raiņa street, Valmiera, LV-4201, Latvia confirm that CE Certification was performed in accordance with Directive 2013/53/EU.

**EU Declaration of Conformity of Recreational Craft with the Design, Construction and Noise  
Emission requirements of Directive 2013/53/EU**

*(To be completed by manufacturer or if mandated, authorised representative)*

**Name of recreational craft manufacturer:** SIA "FISHBOAT"

**Address:** Raina 9B **Town:** Valmiera **Post code:** LV 4201 **Country:** Latvia

**Module used for design and construction assessment:** A1

**Name of Notified Body for design and construction assessment** (if applicable): International Marine Certification Institute

**Address:** Rue Abbé Cuypers 3 **Town:** Brussels **Post Code:** B- 1040 **Country:** Belgium **ID Number:** 0609

**Notified Body certificate<sup>1</sup> number (if applicable):** \_\_\_\_\_ **Date:**   /  /  

**Module used for noise emission assessment** (if applicable): ☐ A ☐ A1 ☐ G ☐ H

**Name of Notified Body for noise emission assessment** (if applicable): \_\_\_\_\_

**Address:** \_\_\_\_\_ **Town:** \_\_\_\_\_ **Post Code:** \_\_\_\_\_ **Country:** \_\_\_\_\_ **ID Number:** \_\_\_\_\_

**Notified Body certificate<sup>1</sup> number (if applicable):** \_\_\_\_\_ **Date:**   /  /  

**Other Community Directives applied:** \_\_\_\_\_

**DESCRIPTION OF RECREATIONAL CRAFT:**

**Watercraft Identification Number:**

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V	Z	N													
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**Brand name of the Recreational Craft:** Vizion **Model or Type:** 410

**Type of construction:** Rigid **Craft main propulsion:** Engine/motor propulsion

**Type of hull:** Monohull **Installed engine type (if applicable):**  
Internal combustion, Petrol (SI)

**Hull construction material:** Aluminium, aluminium alloys

**Recreation Craft**

**Design category(-ies)  
related to the maximum  
recommended  
number of persons:**

Category	Number of Persons	Max Load (kg)
C	3	350

**Length of hull L<sub>H</sub>:** 4,11 m

**Beam of hull B<sub>H</sub>:** 1,78 m

**Maximum Draught T:** 0,20 m

**Deck:** Open

**Installed propulsion type (if applicable):** Outboard

**Integral exhaust propulsion (if applicable):** YES

**Maximum Recommended engine power:** 22.4 kW

**Installed engine power:**        kW

**Number of propulsion engines:** 1 #

**Maximum recommended engine mass<sup>2</sup>:** 124.1 kg

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This declaration of conformity is issued under the sole responsibility of the manufacturer. I declare on behalf of manufacturer that the recreational craft mentioned above fulfils the requirements specified in Article 4 (1) and Annex I of Directive 2013/53/EU.

Name and function:  
(identification of the person empowered to sign on behalf of  
the manufacturer or his authorised representative)

Signature and title:  
(or an equivalent marking)

Date and place of issue (dd/mm/yyyy): Rezekne, Latvia

1 The document may have a different name according to each module (A1: Stability and buoyancy report, B: EC type examination certificate, etc.)

2 For outboard powered boats only

3 Such as non-harmonised standards, rules, regulations, guidelines, etc.

<b>Essential requirements</b> (reference to relevant articles in Annex IA & IC of the Directive)	<b>Harmonised standards</b> Full Application	<b>Harmonised standards</b> Partial Application, see tech.	<b>Other reference documents<sup>3</sup></b> Full Application	<b>Other reference documents</b> Partial Application, see tech.	<b>Other proof of conformity</b> See technical file	<b>Specify the harmonised<sup>4</sup> standards or other reference documents used</b> (with year of publication like “EN ISO 8666:2002”)
	<b>Tick only one box per line</b>					<b>All lines right of ticked boxes must be filled in</b>
<b>General requirements (2)</b>						
Principal data – main dimensions	<b>X</b>					EN ISO 8666:2002
Watercraft Identification Number – WIN (2.1)	<b>X</b>					EN ISO 10087:2006
Watercraft Builders Plate (2.2)	<b>X</b>					EN ISO 14945:2004
Protection from falling overboard and means of reboarding (2.3)	<b>X</b>					EN ISO 15085:2003/A1:2009
Visibility from the main steering position (2.4)	<b>X</b>					EN ISO 11591:2011
Owners manual (2.5)	<b>X</b>					EN ISO 10240:2004/A1:2015
<b>Integrity and structural requirements (3)</b>						
Structure (3.1)	<b>X</b>					EN ISO 12215-5:2008
Stability and freeboard (3.2)	<b>X</b>					EN ISO 12217-3:2017
Buoyancy and flotation (3.3)	<b>X</b>					EN ISO 12217-3:2017
Openings in hull, deck and superstructure (3.4)	<b>X</b>					EN ISO 9093-1:1997
Flooding (3.5)	<b>X</b>					EN ISO 15083:2003
Manufacturers maximum recommended load (3.6)	<b>X</b>					EN ISO 14946:2001/AC:2005



Liferaft stowage (3.7)						
Escape (3.8)						
Anchoring, mooring and towing (3.9)	X					EN ISO 15084:2003
<b>Handling characteristics (4)</b>	X					EN ISO 11592-1:2016
<b>Engines and engine spaces (5.1)</b>						
Inboard engine (5.1.1)						
Ventilation (5.1.2)	X					EN ISO 11105:2017
Exposed parts (5.1.3)						
Outboard engine starting (5.1.4)	X					EN ISO 11547:1995/A1:2000
<b>Fuel system (5.2)</b>						
General – fuel system (5.2.1)					X	
Fuel tanks (5.2.2)					X	
<b>Electrical systems (5.3)</b>	X					EN ISO 10133:2017
<b>Steering systems (5.4)</b>						
General – steering system (5.4.1)	X					EN ISO 8848:2017
Emergency arrangements (5.4.2)						
Gas systems (5.5)						
<b>Fire protection (5.6)</b>						
General – fire protection (5.6.1)	X					EN ISO 9094:2017
Fire-fighting equipment (5.6.2)	X					EN ISO 9094:2017
<b>Navigation lights, shapes and sound signals (5.7)</b>	X					EN ISO 16180:2013
<b>Discharge prevention (5.8)</b>						
<b>Annex I.B – Exhaust Emissions<sup>5</sup></b>						
<b>Annex I.C – Noise Emissions<sup>6</sup></b>						
Noise emissions level (I.C.1)						
Owners manual (I.C.2)						

В случае внесения изменений в конструкции лодки без согласования с производителем, данное свидетельство теряет силу.



