



MODEL 455R PROFESSIONAL OWNERS MANUAL

Secure, stable, impact
resistant, practical
and durable!



www.whalyboatsusa.com



Owner's Manual

WHALY 455R Professional

Owner's manual – 179223

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1. General Information

Congratulations with the purchase of your Whaly Polyethylene boat. **Please read this manual carefully and familiarize yourself with the craft before using it.** Also study the manual of your outboard engine before making use of the boat with the engine.

This manual has been compiled to help you to operate your boat with safety and pleasure. It contains detail of the boat, the equipment supplied or fitted and information on its operation and maintenance.

Before you prepare for the water with your Whaly boat, check the local legislation and any restrictions and the specific water you want to use. You might check for sailing restrictions, speed restrictions, restrictions for the use of an outboard engine, etc. Also inform yourself about the weather conditions before you make use of the boat on a specific day.

- **Before you go travel with your boat always check the conditions of the water on the spot. You could have problems with oars or a very light outboard engine to go with the boat into the stream, the tide or the wind. You also need to check the water depth to make sure you will not get stuck.**
- **Be careful when using the boat in an area where there are other water sportsmen. Also take care when there is a soft coast line or shore, do not produce high waves in that case.**
- **Take precautions to prevent fuel or oil to leak into the water. This is very dangerous and harmful for the environment.**
- **This boat has no navigation light in the standard version and can therefore only be used during the day. It is also not allowed that people that are under the influence of alcohol and drugs. This is very dangerous.**
- **The captain is responsible for the safety of his passengers. When there is a dangerous situation he must point this out to his passengers.**
- **A lifejacket can save your life, but only if you have it on board and wear it when you are making use of the boat. Never take children with you in the boat without a lifejacket!**



2 Information concerning the boat

2.1 Method of production

The Whaly Polyethylene boats are produced in the Netherlands, uses the production method named "rotational moulding".

2.2 Material

All the Whaly boats are made of polyethylene. This material is very strong. The quality of the material that is used can easily be repaired if necessary, but because of the strength it will probably not break.

Polyethylene has a lot of floating power and is therefore a very save material to build a boat. All the models are produced with a double hull and seamless. It can also be recycled and therefore environmental friendly. The smooth skin of the boat gives the Whaly a lot of comfort.



WARNING: At high temperature the skin of the boat can deform. Make sure the skin does not have contact with a hot element, for example a warm exhaust.

3. Ship data / Design category

Ship name		
Ship model	WHALY 455R Professional	
Type of craft	Motorboat	
Design category	C	
Maximum number of persons	6	
WIN code	NL-WHAC.....	
Hull shape	V-hull	
Building material hull	Polyethylene (PE)	
Length of the hull (Lh)	4.50	[m]
Length of the waterline (Lwl)	4.00	[m]
Beam of the hull (Bh)	1.75	[m]
Beam at waterline (Bwl)	0	[m]
Draught	0.25	[m]
Maximum draught	0	[m]
Minimum draught	0	[m]
Air draught	0.85	[m]
Light craft mass (mlcc)	441	[kg]
Minimum operating mass	569	[kg]
Loaded displacement mass	1010	[kg]
Type of main propulsion	Outboard engine	
Number of engines	1	
Maximum engine power	38	[kw]
Maximum load	700	[kg]

Date of CE Calculation	19-6-2019
Inspection module	B+C

Design category

As you can read, the above mentioned information is classified as a watercraft design category. Below you will find the explanation of the design categories:

Category A

A watercraft given design category A is considered to be designed for winds that may exceed wind force 8 (Beaufort scale) and significant wave height of 4 m and above but excluding abnormal conditions, such as storm, violent storm, hurricane, tornado and extreme sea conditions or rogue waves.

Category B

A watercraft given design category B is considered to be designed for a wind force up to, and including, 8 and significant wave height up to, and including, 4 m.

Category C

A watercraft given design category C is considered to be designed for a wind force up to, and including, 6 and significant wave height up to, and including, 2 m.

Category D

A watercraft given design category D is considered to be designed for a wind force up to, and including, 4 and significant wave height up to, and including, 0,3 m, with occasional waves of 0,5 m maximum height.

Note 1: The significant wave height is the average height of the highest third of waves, which approximately corresponds to the wave height estimated by an experienced observer. Some waves may be twice as high.

Evidence of conformity (CE) is based on the European Recreational Craft Directive (2013/53/EU). This directive is mainly focused on increasing trade between the Member States of the European community. These include requirements relating to stability and structure. These requirements are minimum requirements.

Nothing in this Act and/or standards relieve the skipper/owner of his or her responsibility!

The granting of a category does not warrant that the craft under all conditions in this category are characteristics wave height and wind can be safely hazards.

4 Safety

Recommendations to the skipper

The skipper should prior to departure familiarize himself with the ship and the route to the destination. The skipper is responsible for the safety of the ship and its crew. Given the basic rules for berth he should take all safety measures which are required in cases of emergency. This applies not only to coastal waters but also for navigation in inland waterways. Above all: never overestimate your own knowledge and skills. It is not a sign of weakness if you ask timely advice of experienced skippers, coastguard, water police, rescue company or similar entities.



Attention to these points below:

- Always shut down the engine when swimming
- The crew must be given appropriate training
- In bad weather, hatches, valves and entrances should be closed to prevent or reduce the risk of flooding
- The load must not exceed the manufacturer's recommended maximum load
- Stability is reduced by a higher placed weight and/or lifting heavy weights in the davit or boom
- Compartments marked 'air box' may not be made leak
- Bilge water must be minimized
- Breaking waves are a serious stability problem.

For departure inform your guests about the use and location of survival equipment, fire extinguishers and the flight plan. It is also advisable to exercise the 'man overboard' procedure prior to departure. If the skipper falls overboard during the voyage, the guests will be informed about which actions to take.

4.1 Safety equipment and rescue material

Your Whaly 455R Professional will be delivered standard without any safety equipment by the shipyard. The owner of the ship needs to take care of this. Naturally, the safety in accordance with the potential hazards identified in the draft to be expected, are taking into account the size of the ship. Tips and instructions for a necessary safety equipment for your ship can be obtained from various authorities: salvor KNRM, supplier, HISWA, etc.

For some countries, trades and regions, regional or national laws are applicable for the size of the safety equipment. Be informed about this before the trip. Take care of adequate safety equipment on board, such as life jackets, lifebuoy(s) and first aid kit.

General hazards

Please read this manual carefully before you make use of your boat. It is important you keep this manual in a secure and dry place and hand it over to the new owner when you sell this craft.

All persons using this boat must wear a life jacket for their own safety, in some countries it is required to use a life jacket.

Before you prepare for the water with your Whaly boat, check the local legislation and any restrictions and the specific water you want to use. You might check for sailing restrictions, speed restrictions, restrictions for the use of an outboard engine, etc. Also inform yourself about the weather conditions before you make use of the boat on a specific day.



Attention! Avoid walking on deck during the voyage, associated with risk of falling overboard.

4.2 Lighting

All the Whaly boats have no lighting when they come out of the factory.

You may only use those boats during daylight



If you plan to go use your boat after sunset, your Whaly dealer can advise you.

4.3 Risk of fire

In case of fire on board, in the first case you should warn the crew/passengers and hand out life-saving equipment, even though the situation is under control. Make sure that the passengers do not panic and stay on board as long as possible. Locate the fire and extinguish it with the present fire extinguisher.

The vessel has standard no hand extinguisher(s) on board. For some countries, trades and regions, regional or national laws are applicable for the size of the safety equipment. Be informed about this before the trip.

The owner of the ship needs to take care of this.



Warning! You are navigating on a ship which contains hazardous and flammable substances. If there is also a complete power supply on board. Avoid contact with any of these substances/current which can be very harmful for your health. At work: always wear gloves, turn off the main switch and/or hire professional staff.



Attention! Be aware of the location of the fire extinguisher before you take the ship in use.



Attention! In case of a fire, turn the ship that the flames and smoke does not blow over the deck. Never extinguish the fire against the wind. Always shut off the engine and fuel supply to the engine with the valve on the fuel filter (via the pull cable that is mounted from the valve to the fuel supply).



Warning! Do not open the engine compartment, under any circumstances. The engine compartment should only be opened after you are convinced that the fire is extinguished! Do not stow away combustible materials in the engine compartment.

If non-flammable materials are stored in the engine compartment they should be fastened in such a way that is could not fall on parts that can heat up. Fire on a ship is more dangerous than fires on land. Quick and effective action is therefore required. Ask assistance via telephone, radio or sound signals as soon as possible. For emergency calls always use the international applicable rules.

4.4 Hazards of flooding

During the voyage it is possible that water will flood the ship. This is a significant risk. Take the following precautions in time.



Avoid sailing in bad weather; it might put you and the passengers in unnecessary risk.

If water flows inwards, you first need to warn all the crew. Verify that there is an automatic bilge pump. If this is not the case, use a manual bilge pump. Establish as soon as possible where the leakage occurs and try to repair it. Cruise, if possible, to a shallow place where you can ground your ship in case of an emergency. Lay out the life-saving equipment in case it would be necessary.



Warning! Do not abandon ship if it is not immediately required.

Possible causes of incoming water:

- The ingress of water hitting the bottom of the ship against a hard surface;
- Waves during storm;
- Mechanical damage to the hull;
- Leaking seacocks;
- Movement by waves;
- Overload of the ship;
- Incorrect operation of the ship;
- Errors in post (not professionally) fitted extras;
- Damage caused by freezing.

Precautions:

- Proper navigation, by operation of the ship with the correct and realistic assessment of their own knowledge, action, experience and regular monitoring. Avoid overloading and skilled care for winter storage and maintenance;
- Operation of the bilge pumps, check the water tightness of the seacocks;
- Presence of any means to close a leak;
- Careful and regular monitoring of the operation of existing installations.

4.5 Risk of hypothermia

Danger! After falling in the water (low temperature) a risk of hypothermia of the body exists, you can die of hypothermia. This risk is underestimated by many sailors.



Attention! Practice on calm water once a year, so you will know what to do in case of steering malfunction.



Warning! If you use the emergency steering your visibility to the front is limited! Let someone help you be your eyes and communicate with him. Adjust your speed if necessary and use the correct tone.

(Four short horn signals = 'I cannot manoeuvre')

5 Ship plans

5.1 General plan

Maximum length	4.50	[m]
Maximum beam	1.75	[m]
Draught	0.25	[m]
Air draught	0.85	[m]

6 Maximum number of persons and load

Type examination - certificate			
Whaly BV			
P.O. Box 2048, 4800 CA, Breda			
Type of boat	=	Motorboat	
Design category	=	C	
Maximum number of persons	 =	6	
Maximum load	 +  =	700 kg	
Maximum engine power	 =	38 kW	
			



Warning! Do not exceed the maximum recommended number of persons. Regardless of the number of persons on board, the total weight of persons and equipment, the value of the maximum load must never exceed. Always use the chairs and seats available.

6.1 Influence of weight on behaviour and safety

Shape and weight affect the stability of your Whaly 455R Professional. The shape is determined by the line drawing of the designer. It cannot change. The weight is determined by the mass of the empty ship weight and the equipment of your ship. This, you do have influence. We believe not only the herd but also to the luggage. In short everything that can make a ship heavier or lighter. For reasons of safety and quality certification, has the weight of cargo and persons a maximum. On the builder's plate, you will find the value of the maximum loading capacity of the craft. This value indicates the mass that can be safely added to the ready for use boat (with full equipment). Depending on the place, this extra weight more or less influences the behaviour of the sailing ship. Place heavy things as close as possible - and preferably below - the water. Do not put too much weight in the centre or aft. The application of large amounts of mass at these sites may affect the operations behaviour.

Mounting extra's

With the right extra's, you get more pleasure in sailing the ship, you can put a piece of yourself into it. But before you proceed to the assembly it is advisable to consult your supplier or shipyard if these extras fit your ship.



Attention! Please be aware that extra's, adds extra weight to the craft. This also means that the total weight of your ship increases, so you can carry less load.

Ship data / weight

Design category	C	
Maximum number of persons	6	
Length of the hull (LOA)	4.50	[m]
<i>Maximum load</i>		
* Maximum number of persons	450	[kg]
* Provisions	49	[kg]
* Supplies	0	[kg]
* Miscellaneous	25	[kg]
* Life raft	0	[kg]
* Other small boats	0	[kg]
* Margin for future additions	20	[kg]
Maximum load	700	[kg]
* Fuel tanks	25	[kg]
* Water tanks	0	[kg]
* Black water tanks	0	[kg]
Maximum total load	976	[kg]
Light craft mass	569	[kg]
Minimum operating mass	441	[kg]
Loaded displacement mass	1010	[kg]

6.2 Precaution speed and range

The cruising speed should be so adapted, to prevent damage to installations is prevented, the safety of passengers is guaranteed and there is no damage done to the environment. International Rules for Preventing Collisions at Sea (COLREG) and good seamanship require that at all times people should be careful, considering the current diversion rules. Be sure there are no other ships on your route before passage. The view from the main steering position can be obstructed by the following items:

- * Loading and weight distribution;
- * Speed changes;
- * Sailing Conditions;
- * Rain- and bow water;
- * Dusk and dawn and fog;
- * Interior lighting;
- * Position of convertible covers.
- * Persons or movable equipment.

Range (radius) of the 455R Professional depends on the circumstances in which the vessel is used. Standard windless conditions, no current, no waves which is rare. The average consumption of the engine can be found in the included documentation on the engine.

6.3 Mooring and towing

Local circumstances determine how you moor your ship. It is advisable to use flexible cords because they are capable of withstanding great forces that are exercised. Good and careful construction, the seamanship of the skipper, so that damage can be prevented. Keep in mind that the forces on the ropes are different in various circumstances (e.g. rivers and canals).

If you have (option) bollards on the foredeck are used when the ship is towed. Towing should always be carried out at low speed (e.g. 4 knots). It is necessary to steer the ship during towing. The bollards can also be used to moor a 'spring'. This is a diagonal land fast, which ensures that your ship does not move forward or backward along the side when it is moored. Use always good length and quality ropes when the ship is moored. Always use good protective agents between shore and ship to prevent damage. Check on a regular basis your ropes, lines and synthetic threads, they are exposed to various forces, weather and UV radiation so wear and breakage may occur. If necessary, replace them.

Anchorage / lifting

Anchor and mooring lines must be attached to the towing eye on the front of the boat. The lifeline is a help for people who want to climb into the boat or get hold on the boat when they are in the water.

If you want to lift the boat, you can use the lifting eyes in the transom and the towing eye on the front of the boat. Let your Whaly dealer advise.



REMARK: Never use the lifeline to lift the boat. This line can break and the boat will fall down. This can give damage to your outboard engine, luggage and the boat.

7 Technical installations

For the equipment and components from which users manuals are made by the suppliers, see the attachments. In this chapter the operation of a number of important devices are discussed.

7.1 Propulsion system

On behalf of the boat's propulsion a Petrol engine is fitted. With regular maintenance, a few small checks during operation and the necessary attention to making winterize the engine will have a long and mostly trouble-free life.

Engine data

Brand		
Type		
Power		Kw / hp
Maximum rotations per minute		[rpm]
Fuel	Petrol	
Serial number		
Serial number 2		

Before any use of the engine it is advisable to check the following:

- * The oil level;
- * Engine room for leakage of oil or other leakage;
- * The fuel level (switch board);
- * The fuel valves have to be open;
- * Water filters for obstructions;
- * Seacocks/valve for engine cooling water supply must be open;
- * Seacocks/water supply valve for the propeller shaft must be open;
- * The oil level in the reverse link.

7.2 Electrical installations

7.2.1 12 V DC direct current installation

Your ship has a direct current installation with one or more separate battery groups. The generator of the engine loads through a diode bridge the battery groups.

	Number	Voltage (V)	Capacity (Ah)
Battery group 1			
Battery group 2			
Battery group 3			



Attention! If the engine is turned off or your vessel is not connected to the electricity, power, by definition, means that your batteries are discharged. A high degree of battery discharge makes sailing back on the motor to your berth often not sufficient enough for the batteries to recharge. It is therefore recommended that reconnect to de shore power connection after return to the port and all consumers need to be switched off when you leave your ship. Your battery charger will recharge your batteries.

Take in account the following warnings!

- * If one (or more) of the fuses switches off, this means that somewhere in the group has caused an overload (or short circuit). If after restoring the fuse(s) the problem reoccurs again, let the problem be solved by an experienced (ship)electro-mechanic or contact the boat builder.
- * Do not change anything to the electrical installations or the installations schedules of the and certainly not when it is operating. Let control, work and any changes to the electrical system be done by a competent (ship) electro mechanic.
- * Do not install additional equipment whose rated current is higher than that of the on-board. The nominal current of the overload protection(s) never change.
- * Never abandon the vessel with enabled onboard, excluding automatic bilge pumps and fire protection and alarm system. If you leave the boat then switch off the main switches.

8 Maintenance

It is important to check the boat frequently for damage. (are all the screws fastened correctly, is the lifeline still fastened correctly, etc.) If you find an imperfection, you must repair it directly to make sure no one gets hurt.

Each year, take your Whaly boat out of the water and check your Whaly boat / underwater ship for damages .

The transom plate of your Whaly boat is made from stainless steel. This plate is mounted with the production of the boat. You must check frequently if this plate is still fastened correctly. If there is a bolt that is loose, you can lose your outboard engine or people can get hurt.

It is to be advised that you clean the boat frequently with water and soap. This way the boat does not get very dirty and it keeps its nice appearance.

Never use silicone spray or dashboard spray on your polyethylene boat. It can get very slippery and people can fall down.

For more information on the maintenance of your craft, please contact your Whaly dealer.

Stainless steel fittings

Stainless steel stands for stainless steel. This means that the stainless steel fittings mounted on your ship is highly resistant to corrosion. Brass fittings are also resistant to corrosion. However, it is possible that there will occur corrosion after some time. These spots can be polished with a cleaner. In some soaps and detergents ammonia is present. So: - no ammonia in cleaning!

8.1 Recommendations and environment

Expert and timely maintenance is good for the preservation of your ship. During maintenance they often use substances that can be burdensome for the environment and your health when incorrectly treated. A few simple precautions can reduce to an acceptable level. This chapter provides recommendations and advice for a few common maintenance as environmentally friendly as possible.

Cleaning of the ship

In the port you can do various maintenance activities to your Whaly boat. It is recommended that during cleaning you use biodegradable products (such as green soap). Do not use drinking water to rinse the ship, but use surface water, be sure that the water is not dirty so that circles can be avoided.

Interior

Avoid the use of corrosive substances in the lining of banks. Cleaning upholstery can be possibly by the dry cleaning.

9 Other information

9.1 Environment and nature considerations

Avoid fuel and/or oil leakage

A small bit of spilled oil or fuel is sufficient to pollute a huge amount of water. Therefore respect these substances when you are filling the tanks. Wipe spilled oil or fuel with a paper towel or a cloth and throw it in a container for chemical waste. Do not dump oil, bilge water and other wastes in surface waters. Please drop off at recognized disposal units. For individuals, this is usually free.



Warning! Immediately stop the bilge pumps when you notice that there is a risk for oil or other pollutants present in the bilge go overboard.

Chemical wastes and domestic waste

Keep the water quality as good as it is now: do not dump chemicals and discard any waste overboard. Use glass recycling containers, containers and waste bins. The latter are usually at marinas, bridges and locks. Hand in waste separately.

Noise pollution

Avoid noise pollution, because the extra water sounds. Music, boisterous behaviour, can disturb the tranquillity hugely. This can be prevented. Are you staying in a supposedly tranquillity area, then hold additional mind and have fun! Obey all speed limits in force on the water.

9.2 Maintenance and storage

Cleaning

For the cleaning of the ship you can go to different ports. It is recommended to use only biodegradable cleaning products to clean your ship (such as green soap).

9.3 Hoisting and shore sites

The boat can using two belts be raised. The belts are not covered by or under the rudder shaft or screw locations!

Also make sure that the place where a possible hull mounted or log depth sounder mounted that they are not damaged by the belts.



Attention! Do not use drums or loose piles of wood to support the ship when it is on land!

- * Do not place blocks under the openings in the hull!
- * Do not use too small blocks because of too heavy point loads on the hull!

10 Warranty standard manufacturer

When you purchase a new Whaly boat, you must send or email a warranty registration card to the distributor or Whaly the Netherlands info@whaly.com within 30 days.

- The manufacturer gives warranty on the hull of the Whaly polyethylene boats with its accessories (hereafter referred to as “product”) for problems concerning material and construction failures. The **warranty is only concerns products that are sold in a country with a distributor that is officially appointed by the manufacturer (authorized Whaly dealer).**
- The warranty shall become effective only upon receipt of a completed Warranty Registration Card, which shall identify the product so registered by (WIN) serial number. The warranty shall remain in effect as described below.
- The material of the hull has a warranty for the period of 3 (three) years for cracks, deforming and excessive decolouration.
- All the accessories that are on the boat (oars, rowlocks, drain plugs, rowing seats, steering console, etc.) has a warranty of 1 (one) year.
- This manufacturer warranty applies only to defects in material and workmanship, it does not apply damage caused by:
 - a. Neglect, lack of maintenance, accident, abnormal operation or improper installation or service;
 - b. Use of an accessory or part not manufactured or supplied by us (Whaly);
 - c. Participating in or preparing for racing or other competitive activity;
 - d. Alteration or removal of parts.
- This warranty does not cover incidental or consequential costs or expenses such as: haul-out, launch, towing transport and storage charges; telephone or rental charges of any type, inconvenience, or loss of time or income; or other consequential damages.
- Customer must provide reasonable access to the product for warranty service by delivering the product for inspection to a Whaly dealer authorized to service the purchaser's product. If a purchaser cannot deliver product to such authorized dealer, he may give notice in writing to the company. We shall then arrange for the inspection and repair, provided such service is covered under this warranty. Purchaser shall pay for all related transportation charges and/or any other expenses associated with that service. Any product or parts shipped by purchaser for inspection or repair must be shipped with transportation charges prepaid. The Warranty registration card is the only valid registration identification and must be presented at the time warranty service is required. Warranty claims will not be accepted without presentation of the Warranty registration card.
- Our obligation under this warranty shall be limited to repairing a defective part, or at our option, refunding the purchase price or replacing option, refunding the purchase price or replacing such part or parts as shall be necessary to remedy any malfunction resulting from defects in material or workmanship as covered by this warranty. We reserve the right to improve the design of any product without assuming any obligation to modify any product previously manufactured.



11 Receipt of documentation

This **DECLARATION OF RECEIPT OF DOCUMENTS** needs to be signed during transfer of the vessel to the owner. The builder has a **photocopy** in its files.

STATEMENT OF RECEIPT OF DOCUMENTS

Hereby buyer declares,

- * Name:
- * Address:
- * City
- * Of the:
- * With WIN code: NL-WHAC.....

To have received from the builder / Authorized Whaly dealer,

- * Builder: Whaly BV
- * Address: P.O. Box 2048
- * City: 4800CA Breda

Said vessel, complete with all accessories and equipment, and a complete owner's manual, declaration of conformity, list of applied standards, list of supplied documentation, the applicable actual warranty and a copy of the CE certificate to have received.

Buyer	Builder
Signature	Signature
Date	Date

12 Warranty Registration Card

Warranty Registration Card

 please email to info@whaly.com

Date: month ____/day ____/year 20____

Brand: Whaly

Model: _____

Colour: _____

Purchase date: month ____/day ____/year 20____

Dealer _____

Country _____

(serial number) WIN : NL – WHA

Owner's name _____

Email address _____

Address _____

Zip code _____

City/ Country _____

Phone No _____



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