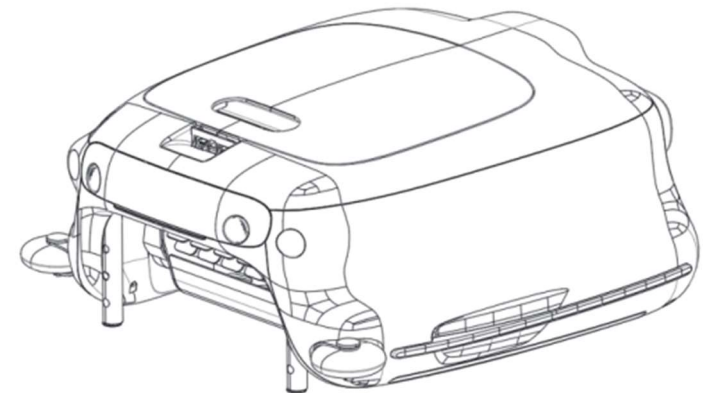




# **Robotic Pool Skimmer**

## Owner's Manual



Please read this owner's manual carefully before operating the unit.

# Contents

I Important Safety Instructions	01
II Introduction	02
1. Power and Charging	02
2. Propulsion and Debris Collection	02
3. Navigation	02
4. Emptying the Debris Collection Area	02
III Pool Skimmer Parts	03
1. Components	03
2. Unpacking	03
IV Getting Started	04
1. Specifications	04
2. Recommendations for Use	05
3. Inspection Before Operation	05
V Operation	05
1. The On/Off Switch	05
2. Placing the Machine in the Pool	05
3. Operating Modes	05
4. Indicator Lights	07
5. Anti-Stranding Settings	07
VI Maintenance	07
1. Cleaning the Debris Collection Basket	07
2. Storage	08
VII Troubleshooting	08
VIII Limited Warranty	09

# I Important Safety Instructions

Please read through the entire manual before installing your new robotic pool skimmer and ensure that your cleaner is installed and operated as specified.

1. Do not enter the pool while the robotic pool skimmer is working.
2. Keep the robotic pool skimmer out of the reach of children or persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
3. Ensure that children do not attempt to access the robotic pool skimmer while it is operating.
4. Please don't let children ride on the product or play with the product as a toy.
5. Only accessories recommended or sold by the manufacturer can be used for the machine.
6. Please use only the provided charger to charge this machine, and do not use this charger for other equipment.
7. Make sure that the switch is placed in the OFF position before charging the machine.
8. Do not operate the machine for cleaning while it is charging!
9. The machine should be operated in an environment with a temperature between 10°C and 35°C.
10. Charge the machine before the battery is completely exhausted. When the red light of the machine is on, please charge the machine in time.
11. Do not charge the machine when the battery is full. Overcharging will reduce the life of the battery.
12. The machine should be charged in a 5°C-35°C environment. When the battery is overheated, it shall be cooled before charging.
13. If the battery will not be used for a long time (more than 3 months), it should be charged. Please use the original charger to charge the machine, so as to ensure that the power of the machine is kept at 40%-60%. If the machine is not charged for a long time, the battery voltage will be lower than the over-discharge protection voltage due to the self-discharge of the battery, and when the time is too long, fatal damage will be caused to the battery.
14. Make sure the charging port is dry before charging.
15. The charger must be plugged into a socket with leakage protection. Please ensure that the ground wire on the socket is grounded in a standard and reliable way.
16. When the robotic pool skimmer is placed on the shore, please do not turn it on, otherwise it will affect the normal use of the cleaner.
17. Clean the filter basket in time after each use, so as not to affect the work of the cleaner due to excessive dirt in the filter basket.
18. When the cleaner is not in use, please store the cleaner in a cool and ventilated place indoors to avoid direct sunlight.



## II Introduction

Thank you for purchasing a PoolPure Robotic Pool Skimmer. We are sure that your PoolPure Robotic Pool Skimmer will provide you with reliable, convenient and cost-effective pool cleaning.

The PoolPure RPS100A is an intelligent and autonomous robotic pool skimmer designed to effectively clean the surface of swimming pools. Powered by a rechargeable Lithium Ion battery, this device operates without the need for hoses or cords.

The PoolPure RPS100A functions as a smart pool skimmer that can operate on its own. Equipped with a control system and multiple sensors, including a Gyro scope, it can navigate and maneuver itself on the surface of the pool. As it moves, it collects leaves, debris, dust, and pollen that float on the water's surface. In addition to its autonomous function, the PoolPure RPS100A also comes with an optional remote control for users who prefer manual control. This versatile pool skimmer provides a hassle-free cleaning solution for maintaining a clean and debris-free swimming pool.

### 1. Power and Charging

This machine is equipped with a built-in 7800mAh rechargeable lithium battery, providing at least 7 hours of continuous cleaning time for a pool area of 2000 square feet. When the battery level is below 30%, the front indicator light will show red, indicating the need for charging. It takes only four hours to fully charge the machine.

### 2. Propulsion and Debris Collection

The pool skimmer is propelled through the water by the propeller located at the rear of the device. The front propeller captures debris in the internal collection area. As water flows through the collection area, it passes through the filter mesh, removing small particles, pollen, and even suntan oils that may be floating on the pool surface.

### 3. Navigation

The bumper wheels at the front of the unit rotate in opposite directions towards the outside of the unit. When the pool skimmer encounters the pool edge or corners, the buffer wheel will cause the pool skimmer to turn right and continue to move around the pool to capture debris.

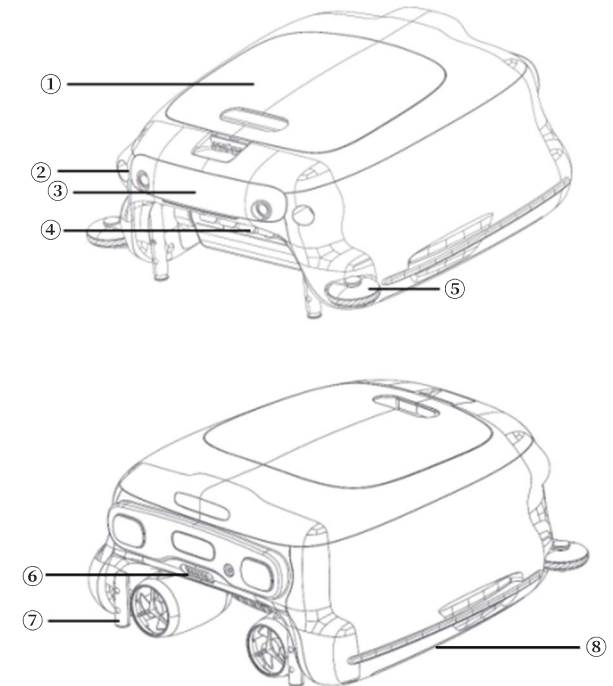
If the pool skimmer encounters an obstacle in the pool and the front bumper wheel does not touch the pool edge to assist with navigation, it will sense being stuck and enter reverse navigation. During reverse, the rear propeller will rotate twice as fast in the opposite direction to avoid the obstacle. The front propeller will continue to rotate forward, but at half the normal speed. This ensures that no debris escapes from the collection area when the device moves backward.

### 4. Emptying the Debris Collection Area

When the debris collection area is full, simply open the latch, remove the debris collection basket, and empty the trash. Rinse the waste collection basket with water.

## III Pool Skimmer Parts

### 1.Components



- ① Debris Collection Basket
- ② Ultrasonic Sensor
- ③ Navigation Lights
- ④ Cleaning Roller Brush
- ⑤ Bumper Wheels
- ⑥ ON/OFF Switch
- ⑦ Anti-stranding Bar
- ⑧ Ambient Light

### 2. Unpacking

Robotic Pool Skimmer \*1  
Charging Adapter \*1  
Remote Control \*1  
Retrieval Hook \*1  
User Manual \*1

## IV Getting Started

### 1. Specifications

Model	ROBOT NERO
Operating Voltage	7.3V
AC Input	100-240V ~ 50/60Hz
AC Adapter Input	15V
AC Adapter Output	2A
Battery Capacity	7800mAh
Maximum Cleaning Area	2000 sq. ft
Battery Life	> 7 hours
Charging Duration	4 hours
Operating Temp	5°C to 35°C
Debris Collection Capacity	5L
Filtration Micron	180µm
Cleaning Modes	1) Automatic Cleaning 2) Remote Control Cleaning
Speed Adjustment	1) Low Speed 2) Medium Speed 3) High Speed
Remote Control Battery Model	AAA Battery
Machine Size	505mm x 457mm x 230mm
Package Size	560mm x 505mm x 290mm
Net Weight	5kg
Package Weight	6.5kg
IP Grade	IPX7

### 2. Recommendations for Use

- When the pool is dirty, remove the largest debris using a net in order to optimise the pool skimmer performance.
- Remove any thermometers, toys, and other objects that might damage the cleaner.
- The cleaner must operate in pool water with the following characteristics: chlorine < 3 ppm; pH 6.8 - 7.6; temperature 15° C - 35°C.

### 3. Inspection Before Operation

#### 1) Debris collection basket

Make sure the debris collection basket is installed in the machine before use. Hold the handle of the debris collection basket and place it in the machine, then fasten the latch to secure the debris collection basket in place. Be careful not to mistake the handle of the collection basket for the machine's handle when removing it, causing debris to spill.

#### 2) Chlorine dispenser

The chlorine dispenser is located at the bottom of the debris collection basket. Unscrew the cover of the chlorine dispenser, insert the chlorine tablets, and screw the cover back on. The chlorine dispenser is designed to hold up to 3-inch jumbo chlorine tablets. You may want to add these to the pool skimmer before placing it in the pool. By distributing chlorine tablets through the dispenser, the pool skimmer can sanitize your pool while removing debris from the surface.

## V Operation

### 1. The On/Off Switch

Slide the switch to the "ON" position to turn on the device. The front LED indicator light flashes green, and the propeller and brushes start running.

### 2. Placing the Machine in the Pool

The pool skimmer has two handles - one handle is located at the front of the machine, and the other handle is located above the debris collection basket. When placing the device in the pool, use the handle at the front of the machine and not the handle on the basket to avoid damaging the machine. After placing the skimmer in your swimming pool, the device will start moving around the pool to collect debris from the pool surface.

### 3. Operating Modes

#### 1) Automatic Mode

After turning on the device and placing it in the water, the machine enters automatic mode. The pool skimmer is designed and programmed for fully autonomous operation. It maneuvers and navigates by reading sensors, managing operations, and self-intelligent charging. By default, the device will operate in automatic mode unless controlled by the remote.



① Standard Forward Operation:

Both the rear propeller and front propeller rotate forward, with the rear propeller providing propulsion and the front propeller scooping debris into the collection basket. The front bumper wheel should rotate towards the outside of the device in the opposite direction to assist navigation and push the device in one direction or another when encountering the pool edge.

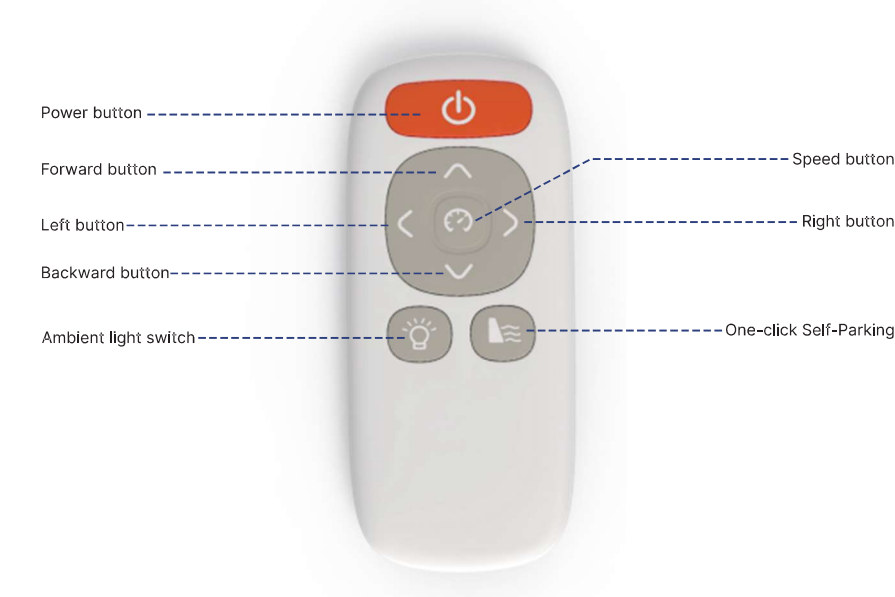
② Automatic Obstacle Avoidance:

When the machine encounters an obstacle that it cannot move forward, it will turn to avoid the obstacle. When the area where the machine is located cannot turn, the machine will first move backward, and then turn until it avoids the obstacle.

2) Remote Control Mode

The skimmer can be manually controlled using the remote control. You can use the included remote control to manually control the skimmer's movement and path in the pool. You can use the remote control directly because it is already paired with your skimmer at the factory. If the remote control does not work, please contact customer service to replace it.

- ① Power button: Controls the machine's power on/off;
- ② Forward button: Press once to move the machine forward and enter automatic mode;
- ③ Left button: Press to make the machine move left;
- ④ Right button: Press to make the machine move right;
- ⑤ Backward button: Press to make the machine move backward;
- ⑥ Speed button: Press the middle speed button to switch the machine's running speed;
- ⑦ Ambient light switch: Turn on/off the ambient light band on both sides (the machine is default on when turned on);
- ⑧ One-click Self-Parking: The machine automatically returns to the poolside.



4. Indicator Lights

1) Front Indicator Light

The front indicator light strip will display the operating status of the machine.

When the power is turned on, the indicator light flashes blue;

When the battery level is below 30%, the indicator light stays red;

When the machine is charging, the indicator light will flash green;

When the machine is fully charged, the indicator light stays green.

2) Ambient Indicator Lights on Both Sides

The indicator light strips on both sides of the machine are mainly for creating an atmosphere at night. By default, they are on when the machine is turned on. The side light strips stay blue, but this will increase power consumption. You can use the remote control to turn them off.

When manually adjusting the machine to move left, the left light strip stays blue while the right light strip turns off. When manually adjusting the machine to move right, the right light strip stays blue while the left light strip turns off.

5. Anti-Stranding Settings

When to use:

If your pool has shallow stairs or other structures, the skimmer may get stuck on them. You can adjust the built-in anti-entanglement bars to resolve this issue.

How to use:

Press the upper button on the bar housing and pull the bar downwards. Each bar can be set at two height positions. Adjust them in pairs – the front and/or the back – to maintain balance.

Retract the anti-stranding bars:

Retract the anti-entanglement bars: Press the lower button on the bar housing and push the bars upwards until they are fully retracted.

## VI Maintenance

1. Cleaning the Debris Collection Basket

We recommend cleaning the debris collection basket every 2-3 days to keep the pool skimmer running efficiently.

1) Use the remote control or wait for the skimmer to approach the shallow water area of the pool where you can safely access it.

2) Lift the machine out of the water, making sure to grip the handle at the front of the pool skimmer (do not mistakenly hold the handle of the top collection basket). Place the skimmer on a flat surface.

3) Turn off the power switch.

4) Unlock the lid lock. Lift the handle of the basket upward to remove it from the device and empty the debris.

- 5) Rinse the basket with a hose until it is completely clean.
- 6) Place the basket back into the device, lock the lid lock, and turn on the power.

2. Storage

If the battery level is low, charge the battery until it is not low. If the battery is fully charged, use the device until the "charging" no longer displays as full. Then turn off the unit. Clean the machine and let it dry before storing to keep it dry. Store the robot in a dry place. Before using it again in the next season, check all parts of the machine for any signs of issues before reusing.

VII Troubleshooting

Below is some info that should help your daily use of the pool skimmer.

Problem	Possible reason	What to Do
The machine shifts to one side when working	Motor is stuck	Check propellers and Impeller for dirt, string, and hair.
	Motor damaged	Contact customer service team
The remote cannot be turned on or off	The machine switch is in the OFF state	Slide the machine switch to the "ON" state, only in the "ON" state, the remote control switch can work
	The switch or electric control board is damaged	Contact customer service team
Ambient light anomaly	Lamp strip damage	Contact customer service team
Failed to steer automatically	Ultrasonic probe damage	Contact customer service team
Debris leaks when turning	Clean motor damage	Contact customer service team

VIII Limited Warranty

The manufacturer of this product guarantees, subject to the following conditions, that it will:

- 1. Provide a full refund of the original purchase price if the product proves to be unsatisfactory and is returned to the place of purchase within 30 days of the original purchase date.
- 2. Repair or replace the product, at its option, within 1 year of the original purchase date if it proves to be defective due to improper workmanship or materials.In order to obtain repairs or replacement under this limited warranty you must bring or ship this product to the manufacturer authorized repair center and contact support@poolpurefilters.com for return authorization.
- 3. Repairs will be performed at the manufacturer/authorized repair center; and will be shipped back to the customer.

The following conditions apply to this Limited Warranty:

- 1. ORIGINAL PURCHASER: This limited warranty is applicable only to the original purchaser of this product from a retailer, manufacturer, or authorized distributor.
- 2. UNAUTHORIZED REPAIR, ABUSE, ETC.: This product must not have been previously altered, repaired, or serviced by anyone other than a service facility authorized by the manufacturer or distributor to provide such services. Furthermore, the product must not have been subjected to accidents, misuse, abuse, casualty, vandalism, or operated contrary to the instructions accompanying this product.
- 3. EXCLUSIONS: This warranty does not apply to any machine that has been subjected to any form of abuse, including but not limited to:
  - a.Submersion underwater to the extent that water enters the motors or electronic enclosures.
  - b.Rough handling leading to the breakage of components due to obvious abuse.
  - c.Storage or use in a pool of water where the pool surface freezes or becomes too contaminated to allow its use, such as during sleet, snow, tropical storms, or swimming activity.

