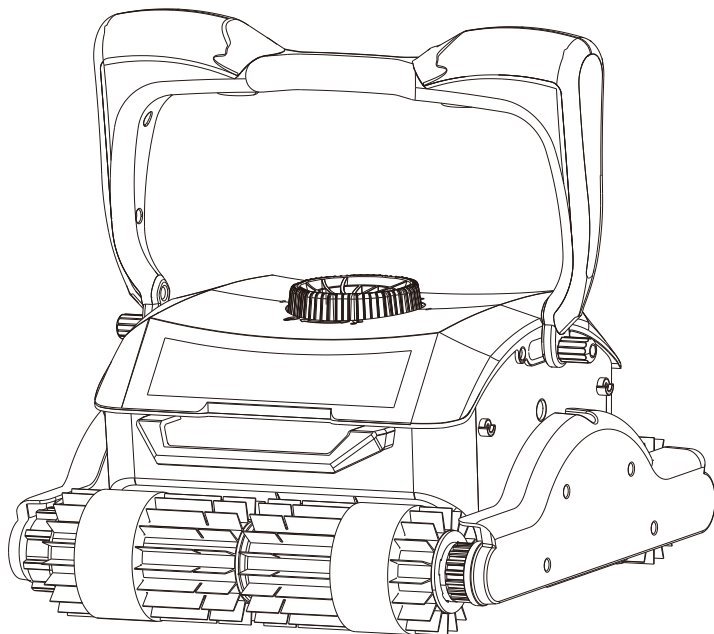


APIER®

ROBOTIC POOL CLEANER

User Manual

Orca 2000



Thank you for choosing Aiper robotic pool cleaner.

You have joined millions of people to enjoy the convenience of robotic pool cleaning.

This user manual helps you to keep your robot performing at its best. Please take a few moments to read through it.

If you have any questions, please contact our customer service for assistance or visit www.aiper.com for more information.

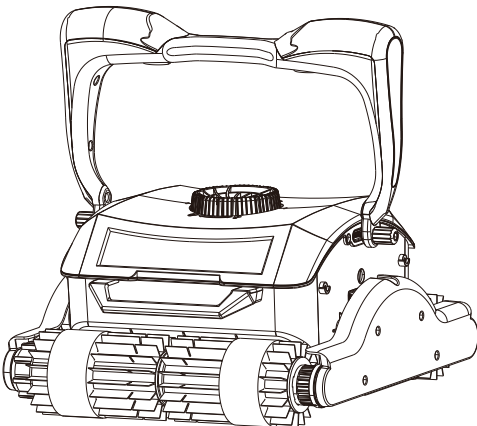
Aiper Customer Service

Customer Service Number:

US Toll Free: 1-866-850-0666

Email: service@aiper.com

Facebook: [@AiperOfficial](https://www.facebook.com/AiperOfficial)



CONTENTS

Important Precautions ----- 1

1. Introduction ----- 2

2. Structure ----- 2

3. Specifications ----- 3

4. Operations ----- 3

Attentions ----- 3

4.1 Control Panel and Indicator Instructions----- 5

4.2 Filter Cleaning ----- 6

4.3 Calibration for Reference Value ----- 7
of Full Basket Alarm

4.4 Filter Cleaning----- 7

4.5 Installation of Foam Floating Blocks ----- 8

5. Trouble Shooting ----- 8

6. Packing List ----- 10

7. Warranty----- 10

Important Precautions

1. Read the manual carefully, and use the cleaner according to the manual. We are not liable for any losses or injuries caused by improper use.
2. To avoid any accidents/damages, it is strongly recommended to fix the power supply unit 11.5ft (3.5m) away from the swimming pool by using the included safety rope.
3. To prevent severe damages to the cleaner, never power on the unit when it is outside of the swimming pool.
4. The power cord must be connected to an appropriate earthed socket and the power connector must be plugged in tightly.
5. Hold the top handle when putting the cleaner into water or lifting out of the water, do not pull the cable. Before powering on, make sure to empty the trapped air inside the cleaner (no more air bubbles come from the cleaner and the cleaner is fully submersed on the pool floor).
6. Before powering on, make sure the filter baskets and bags are assembled in position and the cord is fully released to avoid any winding, which could affect the cleaner's performance or cause damages.
7. Please clean and wash the filter baskets and bags every time after use.
8. The cleaner should be stored in a cool and ventilated place, away from direct sunlight when it's not in use.
9. The power supply unit should be placed at a shaded area during working. To avoid overheating and potential damages of components, never cover the power supply unit during working.
10. Only authorized after-sales service personnels can open the cleaner's power supply unit and motor assembly, otherwise the warranty will be invalidated.
11. Do not use the cleaner beyond the working environment/conditions stated in this manual.
12. Make sure the PH value of the pool water is between 7.0~7.8.
13. This machine is to clean the pool only not for other purposes.
14. Do not use the cleaner immediately after spraying the pool chemicals and do not use the cleaner as a dosing machine, which will damage and corrode the parts.

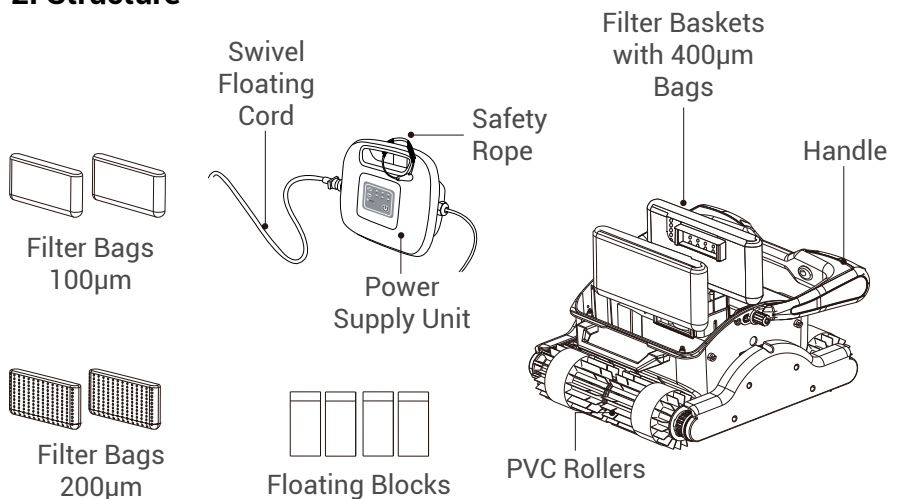
15. Do not operate the cleaner when there are people or animals in the pool.
16. Take the cleaner out of the swimming pool after use. If the cleaner is immersed in the water for a long time, there will be micro organisms produced.
17. The cord should be untwisted and wrapped properly after use.
18. Use the original adapter only for the control box kit.
19. Do not operate the cleaner while pool filter is running.
20. Do not allow children to ride on the cleaner or play with it.

1. Introduction

The robotic pool cleaner Orca 2000 is a new type of highly efficient and energy-saving swimming pool cleaning robot. Through its advanced computer-controlled program, it can clean the pool walls and floor automatically. At the same time, it filters the pool water and gets rid of suspended particles without replacing the pool water. It's totally environmental-friendly.

Read the user manual carefully before use.

2. Structure



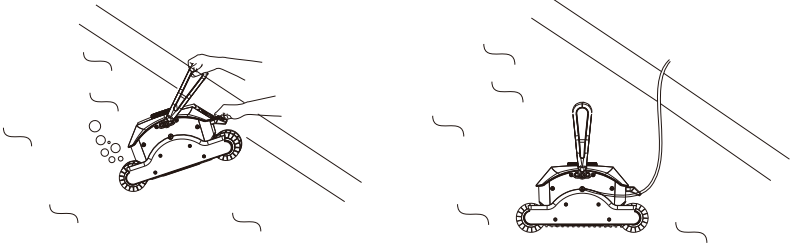
3. Specifications

1. Model	Orca 2000
2. Rated Input Voltage	100V~240V, 50Hz/60Hz
3. Rated Working Voltage	DC 24V
4. Power	200W
5. Optional Working Cycles	1H/2H/3H
6. Timer Schedule	1 Day/5 Days/7 Days
7. Pool Size	Up to 60ft (18m)
8. Filter Capacity	88GPM(333LPM)
9. Filter Density	100/200µm/400µm multiple filter bags
10. Moving Speed	Low Speed 46~49ft/min (14~15m/min) High Speed 59~62ft/min (18~19m/min)
11. Waterproof Grade	IPX8 for the cleaner; IPX5 for the power supply unit
12. Pool Water Temperature	50°F~95°F (10 ~35)
13. Pool Water PH Value	7.0~7.8
14. Max Water Depth	10ft (3m)
15. Product Size	19.49(L)x17.52(W)x9.25(H) inches 495(L)x445(W)x235(H) mm
16. Storage Temperature	-4°F~113°F (-20 ~45), RH≤75%
17. Working Distance between Remote and Control Box	33ft (10m)
18. Frequency of Remote Control	433MHz

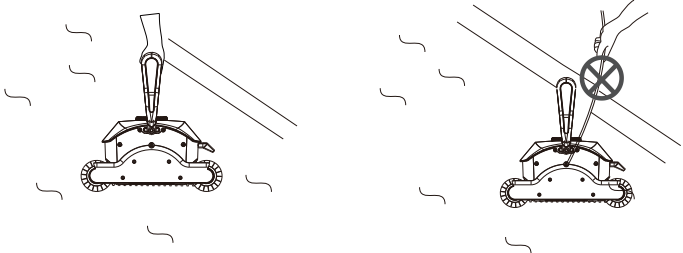
4. Operations

Attentions:

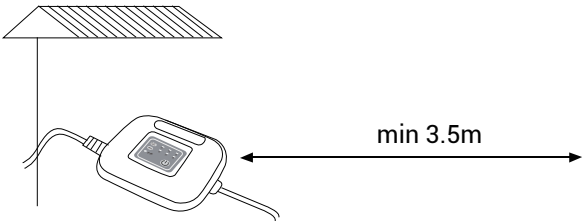
1. When putting the cleaner into the water, please hold the top handle and make sure to empty the trapped air inside. Now, the cleaner can be immersed to the pool floor.



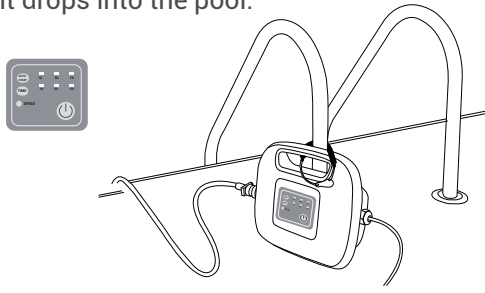
2. When pulling the cleaner out of the water, suspend the cleaner on the water for about 10-15 seconds to empty the water inside. Please hold the top handle only; never pull the cable.



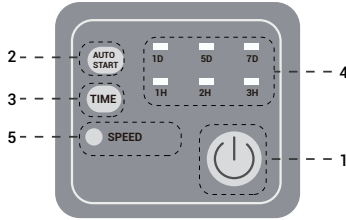
3. The power supply unit has to be placed in a proper position to reach the distal end of the pool, at least 11.5ft (3.5m) away from the pool edge.




4. Please use the included safety rope to fix the power supply unit in case it drops into the pool.



4.1 Control Panel and Indicator Instructions

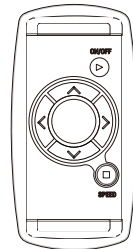


No.	Sign	Instruction		Function description	
1		Power ON/OFF/ Start Working		1. Press the button to power on. 2. Press the button again to start working. 3. Press the button again to power off.	
2	AUTO START	1. When the cleaner is power-on, press the button to set up start time: 1D, 5D, 7D indicates that the cleaner will start to work automatically after 1 day, 5 days or 7days; 2. When the cleaner is power-off, you can check the setup time of AUTO START by pressing the button.			
3	TIME	1H	The cleaner runs for 1 hour		
		2H	The cleaner runs for 2 hours		
		3H	The cleaner runs for 3 hours		
4	Indicator	Indicates the operation mode and cleaner status			
		Working status	"1H" on	The cleaner is running for 1 hour	
			"2H" on	The cleaner is running for 2 hours	
			"3H" on	The cleaner is running for 3 hours	
			All indicators flash slowly	Working Completed	
			"SPEED" on	Fast Running Mode	
"SPEED" off	Slow Running Mode				

4	Indicator	Abnormal Indications	Status	Issues
			All indicators flash quickly	Overloading
			"5D""7D""2H""3H" four indicators on	The cleaner is out of water
			"5D""2H" two indicators on	The drive motor at the cable side is overloading
			"7D""3H" two indicators on	The drive motor opposite the cable side is overloading
5	Robot Indicators (beside the water outlet)	Blue light stays on	Standby in fast running mode	
		Green light stays on	Standby in slow running mode	
		Blue light flashes	Fast running mode	
		Green light flashes	Slow running mode	
		Yellow light flashes	Filter baskets are full	
		Red light flashes	Error	

4.2 Remote Control

Note: The remote control working distance 33ft(10m) means the distance between the remote and the control box instead of the distance to the cleaner.



No.	Instruction	Function description
1	ON/OFF	Press the button and the cleaner starts to run automatically; Press the button again, the cleaner stops.
2	SPEED	Press the button once, the cleaner runs in fast mode; Press the button again, the cleaner runs in slow mode.
3	Forward	Press and hold the button, the cleaner moves forward, the indicators 1D, 5D and 7D flash from left to right in sequence on the control box; Release the button, the cleaner stops.

4	Left	Press and hold the button, the cleaner moves left, the indicators 3H, 2H and 1H flash from right to left in sequence on the control box; Release the button, the cleaner stops.
5	Backward	Press and hold the button, the cleaner moves backward, the indicators 7D, 5D and 1D flash from right to left in sequence on the control box; Release the button, the cleaner stops.
6	Right	Press and hold the button, the cleaner moves right, the indicators 1H, 2H and 3H flash from left to right in sequence on the control box; Release the button, the cleaner stops.

4.3 Calibration for Reference Value of Full Basket Alarm

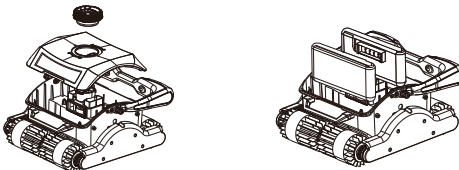
Note: If the full basket alarm is not precise with an incorrect value, please calibrate it by hand as below.

- a) Put the cleaner into the pool, plug the power, and press "Time" and "On/Off" buttons at the same time;
- b) 1H and 3H indicators stay on and the 5D indicator flashes after four beeps, then release the buttons;
- c) The calibration is completed when 5D indicator stops flashing and stays on, then unplug the power.

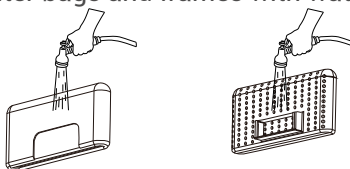
4.4 Filter Cleaning

A. Take out the filter baskets:

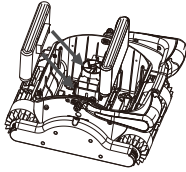
- ① Unscrew and open the cover;
- ② Take out the filters and remove the filter bags from the frames.



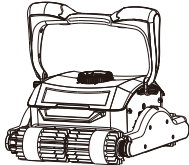
B. Rinse the filter bags and frames with water



C. Slide the two filters into the grooves.



D. Close the cover and screw the fastener.

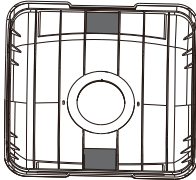


4.5 Installation of Foam Floating Blocks

Attention: If your robot is performing well, please ignore these instructions.

The following illustration is limited to the use of white foam blocks to increase coverage when the cleaning machine cannot completely clean and cover the pool area.

Stick the two foams on the internal surface of the top cover (see the picture below). Make sure the two foams are in the middle part of the top cover.



5. Trouble Shooting

Remark: The pool water condition must be within the following parameters:

- PH: 7.0 –7.8
- Salt: Max 5,000 ppm
- Temperature: 10°C(50°F) to 35°C(95°F)
- Chlorine: Max 2 ppm

Issues	Possible Causes	Solutions
The cable twists or coils up	The cable is not fully released	Unplug the power cord and fully release the cable
	Obstruction in the pool	Remove the obstruction
	Stuck on main drain outlet	Turn off the pool filter system
	Overtime working	Release the cable manually

The robot does not reach all pool areas	The power supply unit is improperly positioned	Place the power supply unit at a proper position to reach all pool areas
	There is algae on the pool floor and it can't be cleaned since it floats easily after the machine passes by	Before using the cleaner, please clean the algae on the floor or walls in case it floats when the machine passes by
	The pool shape is not regular	The ideal pool shapes are ROUND, OVAL, RECTANGULAR, KIDNEY-LIKE. Please place the robot on the area that needs specific cleaning
	The pool filter system and pump are running	Turn off the pool filter system and pump
	The cable is not long enough in the pool	Release the cable
The robot does not climb walls	The filter baskets need to be cleaned	Clean and wash the filter baskets
	The PVC rollers are worn or consumed too much	Replace new rollers
	The wall radian is too big or the wall surface is too slippery.	It doesn't work for ceramic tile walls.
The robot does not work	The power cord is not plugged well	Plug the power cord tightly
	The robot is damaged during transportation	Contact the customer service
	The cleaner does not match the local rated voltage	Contact the customer service
	Electric Fault	Contact the customer service
	The cleaner gets blocked	Contact the customer service
It spends all its time in the deep area without visiting the shallow area	The pool shape is not regular like ROUND/ OVAL/RECTANGULAR	Paste the included floating blocks on the shell surface (refer to 4.5 on the manual) to widen the cleaning coverage

6. Packing List

Item	Name	Quantity (PC)
Orca 2000	Cleaner with 60ft(18m) Cable	1
	Power Supply Unit	1
	User Manual	1
	Safety Rope	1
	Floating Blocks	4
	100µm filter bags	2
	200µm filter bags	2
	400µm filter bags in the cleaner	2

7. Warranty

1. This product is covered by Aiper warranty for 24 months (only for driving kit and control box kit) from the date of purchase. Consumable parts are beyond warranty including Filter Bags/Filter Baskets/ Rollers/Side Covers.
2. This warranty is voided if the product has been altered, misused, or has been repaired by unauthorized personnels.
3. The warranty extends only to manufacturing defects and does not cover any damage resulting from mishandling of the product by the owner.
4. The order number or record must be presented for any claim or repair during the warranty period.



Aiper Customer Service:

US Toll Free: 1-866-850-0666

Email: service@aiper.com

Facebook: [@AiperOfficial](https://www.facebook.com/AiperOfficial)