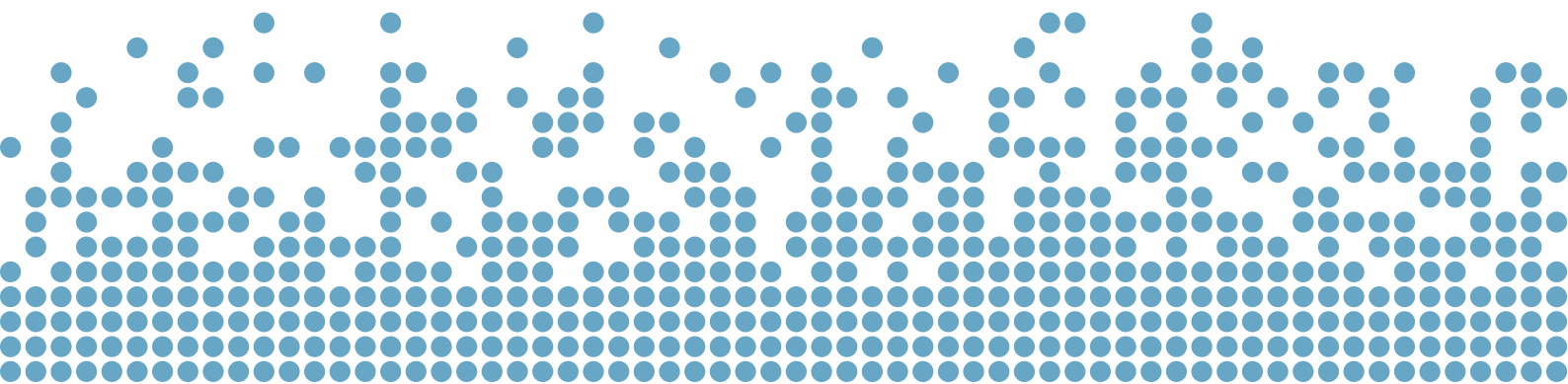
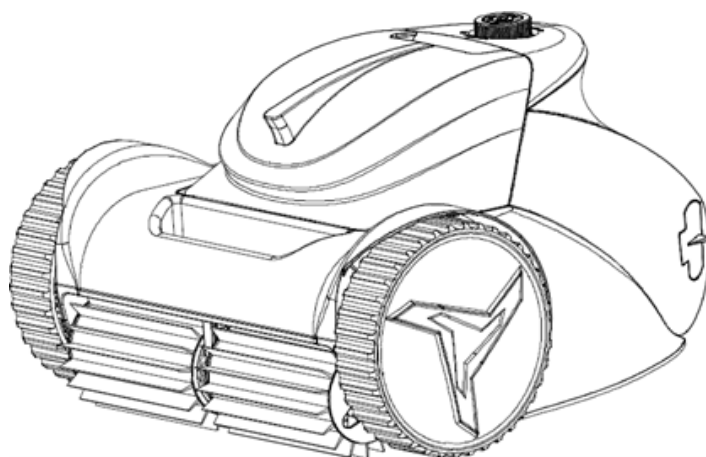


AQUA[®] FORTE

User Manual

XM28/29/44/58/70

AI-Wireless Robotic Pool Cleaner



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1. Introduction

You have purchased a high quality device that is designed to be silent, energy saving, long lasting, and easy to use.

Please read this manual carefully. Become familiar with its operation and maintenance so you can prevent personal injury and/or material damage. This manual belongs to this device and must be given to the new owner in case of resale or trade-in.

1.1. Purpose of this manual

The purpose of this manual is to help users understand the features and functions of the robotic pool cleaner, and to provide guidance on how to use it safely and effectively.

The manual includes all relevant information on:

- [Safety \(on page 5\)](#) provides important information on how to use the product safely, including warnings and precautions that users should be aware of.
- [Transportation and storage \(on page 7\)](#) explains how the product can be stored safely.
- [Product specifications \(on page 7\)](#) describes the dimensions, features and other relevant information about the product.
- [Installation guidance \(on page 9\)](#) provides step-by-step instructions on how to install the product.
- [Operation \(on page 10\)](#) explains how to use the product.
- [Maintenance \(on page 14\)](#) provides guidance on how to keep the product in good working order, including information on cleaning and regular maintenance tasks.
- [Troubleshooting \(on page 18\)](#) provides advice on how to identify and fix common problems that may arise with the product.

Overall, the product manual is an essential resource for anyone who owns or operates a robotic pool cleaner. By following the instructions and guidance provided in the manual, users can ensure that they can get the most out of their investment.

1.2. Intended and non-intended use

WARNING



Safety Hazard

Make sure that the robotic pool cleaner is installed by a certified professional, and according to the procedures described in this manual.

1.2.1. Intended use

This robot is designed for cleaning (private) pools and spas; do not use it for any other purpose.

1.2.2. FCC caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

1.2.3. IC statement




This device complies with Industry Canada's license-exempt RSS. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.


By understanding both the intended and non-intended uses of this product, you can ensure that you are using the device in the most efficient and cost-effective way possible.


1.3. Reading guide


This manual contains important warnings and notes that highlight information relevant to the user:

⚠ DANGER	
	This section warns that there is a major safety hazard Indicates a hazardous situation that will result in serious injury or death if safety instructions are not followed.
⚠ WARNING	
	This section warns that there is a safety hazard. Indicates a hazardous situation that could result in serious injury or death and/or serious damage to the product or environment if the safety instructions are not followed.
⚠ CAUTION	
	This section warns of a possibly hazardous situation. Indicates a hazardous situation that could result in minor or moderate injury and/or damage to the product or environment if the safety instructions are not followed.
NOTICE	
Product notification This provides important background information to prevent damage to the machine.	

 Important information that is not injury-related (e.g., information related to property damage).

 Remember this information for future use.

 Note with information relevant to the context or understanding of the user.

 Tips and tricks to make usage easier or more convenient.

1.4. Lifespan

The lifespan of the product depends on several factors.

The first factor is the quality of the maintenance. A robotic pool cleaner that is not properly maintained may only last a few years. Regular cleaning and servicing can help to prevent problems and prolong the life of the product.

The second factor is the usage of the robotic pool cleaner. If it is used frequently, in unfavorable operating conditions or at high load it will have a shorter lifespan. This is because the wear and tear it will experience.

The third factor is the environment in which robotic pool cleaner is located. A robotic pool cleaner that is located in a harsh environment may have a shorter lifespan than one that is located in a more favorable environment.

1.5. Warranty

This product comes with a 2 year general product warranty starting at the date of purchase. The following items have different warranty periods:

The warranty covers any defects in materials or workmanship under normal use and maintenance. If a defect arises during the warranty period, you should contact your dealer immediately.

To make a warranty claim, you must provide proof of purchase, the defective product and a description of the problem. The warranty does not cover damage caused by improper installation, unintended use, abuse, or neglect. It also does not cover normal wear and tear, or any damage caused by acts of nature such as lightning.



- Deactivating, eliminating or by-passing any of the safety mechanisms integrated into the product, in addition to using spare parts or accessories manufactured by unauthorized third-party manufacturers, will void the warranty.
- Unauthorized repairs will void the warranty.
- Battery seal damage will void the warranty.
- Using a non-original charger will void the warranty.

This warranty is the sole and exclusive warranty for this robotic pool cleaner. We make no other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. In no event shall we be liable for any incidental, consequential, or special damages arising out of or in connection with the use or inability to use this product, even if we have been advised of the possibility of such damages.

2. Safety

We have provided important safety messages in this manual and on your product. Please always read and obey all safety messages.

The robotic pool cleaner must be installed, operated and maintained as specified in this manual. Failure to respect the warnings may cause serious damage to the pool/spa equipment or cause serious injury, even death.

2.1. Warnings

DANGER



Electrical hazard

Disconnect the adapter from the power source BEFORE performing any cleaning AND maintenance.

The robot MUST be charged at least 3.5m away from all pool edges.

NEVER attempt to disassemble or replace the battery.

Avoid contact between any wires or metal items that could cause sparking AND short circuit the battery.

DANGER



Chemical hazard

Chemicals can cause internal and external burns.

If a battery leak occurs, avoid any contact with the leaking fluids AND contact a professional to replace the battery.

If leaking fluids come in contact with skin AND clothing, wash immediately with plenty of soap AND water.

If leaking fluids come in contact with eyes, do NOT rub eyes. Immediately flush eyes with cool running water for at least 15 minutes AND do NOT rub them. Seek medical attention as soon as possible.

WARNING



Safety hazard

Do NOT use the device when people or animals are in the pool.

Set the power switch to **OFF** BEFORE performing any cleaning AND maintenance on the robot to avoid injuries caused by impeller rotation.

Wear gloves when removing the impeller to prevent injury from its sharp edges.

The cleaner MUST be charged indoors in a dry AND well-ventilated area, away from direct sunlight, children, heat, ignition sources AND pool chemicals.

In case of malfunction or release of odor from the robot when charging, disconnect it from the power supply immediately AND contact your dealer.

Wear complete eye protection, gloves AND protective clothing when disposing the cleaner.

WARNING



Fire hazard

Charge only with the charger specified AND supplied by the manufacturer.

Do NOT expose the cleaner, battery or charger to fire or temperature above 130°C to avoid risk of explosion.

Do NOT use a battery that is damaged or modified, as it may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

The robot MUST be charged in temperatures between 6-35°C to avoid damage to the battery and risk of fire.

Use specifically designated battery packs ONLY.

NOTICE

Repair and disposal

Do NOT try to repair the robot yourself or open motor box in case of malfunction.

NOTICE

Product damage

Do NOT use the robot during shock chlorination.

Do NOT use the robot during a thunderstorm, stormy weather, or freezing weather conditions.

Do NOT expose the robot to direct rainfall or sunlight for an extended period.

2.2. Safety information

Make sure to comply with these statements:

- Carefully read all the instructions in this manual. Failure to read and comply with the instructions can cause injury. This document must be given to the pool owner/custodian, who should keep it in a safe place for reference.
- If the device is malfunctioning, contact your nearest dealer or service center.
- Repairs may only be carried out by a trained service technician. If repairs are required, please contact the nearest after-sales service centre. Any repairs should be performed in strict accordance with this manual.
- The product is not to be used by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- This product is not a toy and should only be used by adults.
- Only a person qualified in the technical fields concerned is authorized to carry out all assembly, installation, maintenance or repair works on the product.
- The product is to be installed in accordance with manufacturer's guidelines and in compliance with the relevant requirements of the local or national standards for installation. The manufacturer is not responsible for any outcome related to the failure to comply with installation, usage or maintenance guidelines.
- Only use the detachable supply unit provided with the robot to recharge the battery.
- Prevent unintentional starting by making sure that the power switch is set to **OFF** before connecting the robot to a battery pack, picking it up or carrying it.
- Do not carry the robot with your finger on the power switch.

- Do not lift the robot out of the water by brush roller.
- Carefully remove the robot from the pool and drain the water before lifting.
- Do not modify or attempt to repair the robot or the battery pack except as indicated in the instructions.
- Use only original replacement parts supplied by the manufacturer.

3. Transportation and storage

Ensure the robot is fully dry before storage to prevent damage to the motors and internal structure. Clean the filter basket thoroughly before storage and do not leave dirt or debris in the filter basket. For instructions on how to clean the filter basket, see [Cleaning the filter basket \(on page 15\)](#). Store the charger cable neatly and without twists whilst in long-term storage.

The robot should be stored in a temperature of -10-45 °C and a humidity of 30%-70%/RH.

Set the power switch to **OFF** if the robot is not in use to protect the battery.

4. Product specifications



This robotic pool cleaner is able to perform normally within a water temperature range of 4 °C~35 °C, but the device performance depends on the operating conditions. The endurance time may be affected in water temperatures below 15 °C.

Table 1. Technical specifications

Model	XM70	XM58	XM44	XM29	XM28
Endurance condition reference ¹ : Floor Cleaning mode					
Endurance time	7.0h	5.8h	4.4h	2.9h	2.8
Charging time	6.0h	5.0h	3.5h	3.5h	3.5h
Battery	7.5Ah		5.0Ah		
Pool size	6x10m				
Optimal pool temperature	4~35 °C				
Optimal water depth range	1-2.5m ²				
Optimal PH	7.0-7.8				
Optimal NaCl (PPM)	5000 max				
Optimal chlorine (PPM)	4 max				
Cleaning mode	Floor Cleaning mode³, Full Cleaning mode⁴ (Floor, wall, waterline)				Floor Cleaning mode
Cleaning time	1h/1.5h/2h/Max				
Filter capacity	3.2L				
Filtration accuracy	120µm				
Pump flow rate	15-20 (m³/h)				
Running power	20-100W				
Moving speed	12m/min				

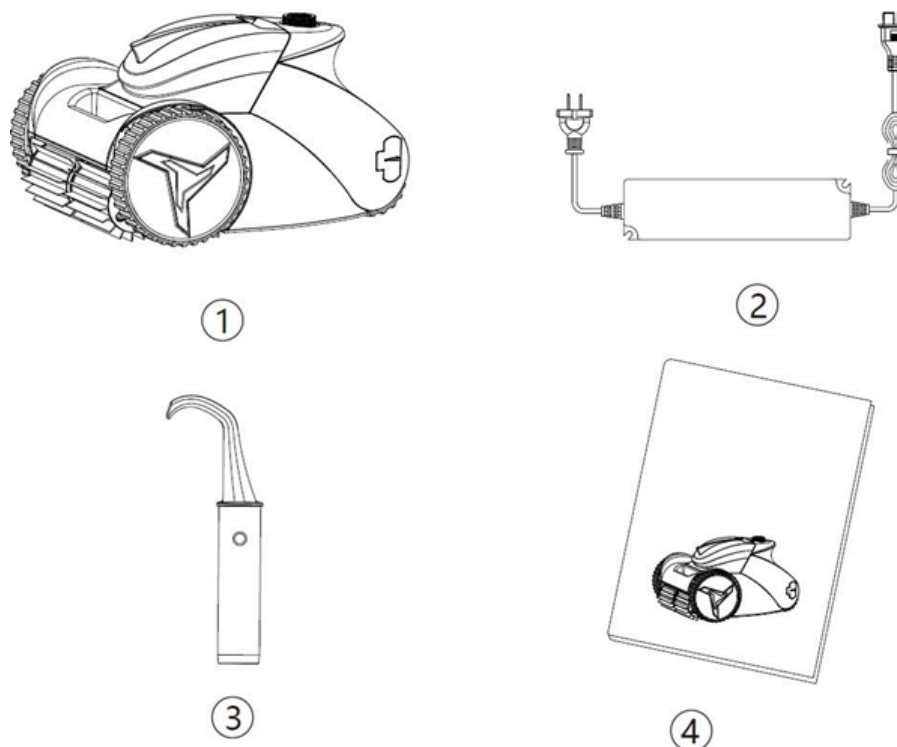
1. Based on 30 minutes of cleaning in **Floor Cleaning mode** in a 4*8m swimming pool.
2. The robot will automatically stop running if the water depth is less than 40 centimeters.
3. The robot does not function on >30° slopes in **Floor Cleaning mode**.
4. If the robot is in **Full Cleaning mode** and fails to climb the wall 5 times in a row, it will automatically switch to **Floor Cleaning mode**.

Table 1. Technical specifications (continued)

Model	XM70	XM58	XM44	XM29	XM28
Number of motors	3				
Charger input	100-240VAC ~ 50/60Hz				
Running voltage/current	25.5V/1A				
Robot NW	7.3kg		7.2kg		
Robot dimensions (L*W*H)	440*400*238 mm				
Robot packaging dimensions (L*W*H)	504*450*300 mm				

4.1. Packaging content

The following items are included in the packaging of the XM28/29/44/58/70. Please contact your dealer in case of any damage or loss.

**Figure 1. Packaging content**

Part number	Description
1	Robot
2	Charger
3	Hook
4	User manual

4.2. Battery

If the robot's battery level is below 30%, it will only clean the pool floor. If the battery level dips below 15% during a cleaning cycle, one light on the control panel will flash red (see [Control panel \(on page 10\)](#)). The robot will park itself at the side of the pool and enter **Sleep mode** after 5 minutes.

For instructions on how to charge the robot, see [Charging the robot \(on page 13\)](#).

5. Installation guidance

1. Set the power switch to **ON**.

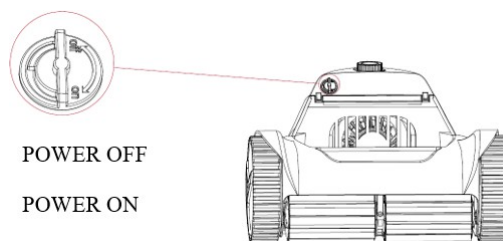



Figure 2. Power switch

2.  The charging port cover will remain tethered to the robot's body. Do not lose the charging port cover.

Remove the cover from the charging port.

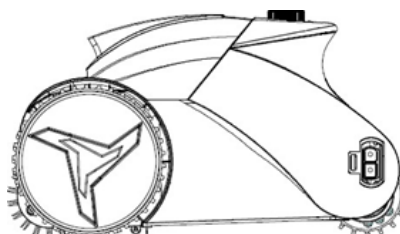


Figure 3. Charging port cover

3. Connect the robot to the power supply (100-240V) using the attached charger.

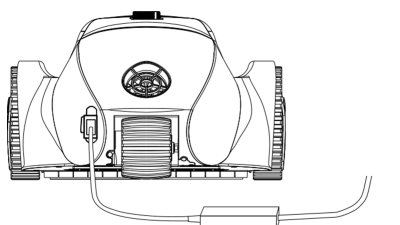






Figure 4. Charging the robot

4.  Press  on the control panel to display the battery level. When all three lights are lit green, the robot is fully charged.

Fully charge the robot before first use, see [Charging the robot \(on page 13\)](#).

5.  Do not immerse the robot in water before putting the charging port cover back on the robot.

Place the plug cover back when the robot is fully charged.

6.  The rod is not included in the packaging of the XM28/29/44/58/70.

Install the hook onto the rod.

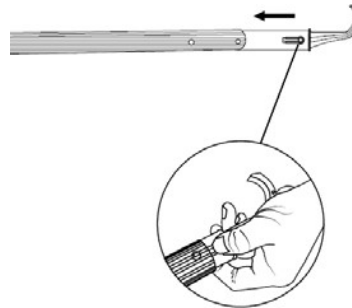



Figure 5. Installing the hook

6. Operation

 Before carrying out any operations, check that:

- The required input voltage indicated on the product information plate corresponds to the mains voltage;
- The mains supply is compatible with the product's electricity needs and is correctly grounded;
- The plug (where applicable) is compatible with the socket.

6.1. Control panel

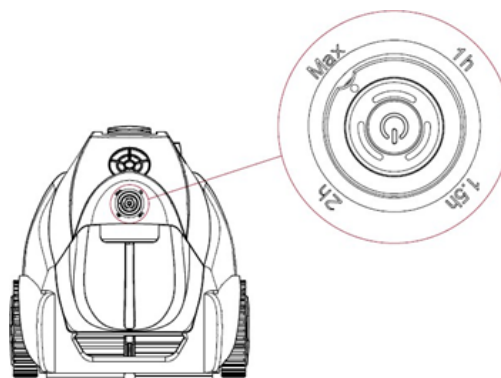











Figure 6. Control panel

Button	Icon	Display status	Description
Power switch		Green and blue lights flash.	Setup
		Green and blue lights are off.	Sleep mode/Power OFF
		Green and blue lights are lit.	Running/Power ON /Water sensor
Cleaning time		Arrow points to 1h.	Cleaning time: 1 hour
		Arrow points to 1.5h.	Cleaning time: 1.5 hour
		Arrow points to 2h.	Cleaning time: 2.0 hour
		Arrow points to Max.	Cleaning time: Until battery level below 30%

Button	Icon	Display status	Description
Cleaning mode		Lights are lit green.	Floor Cleaning mode
		Lights are lit blue.	Full Cleaning mode (Floor, wall, waterline)
Battery light		One light is lit.	Battery level: 30-40%
		Two lights are lit.	Battery level: 40-70%
		Three lights are lit.	Battery level: 70-100%
Battery light (Low battery)		One light flashes.	Battery level: Below 30%
Battery light (Charging)		Three lights flash.	Charging
		Three green lights are lit.	Battery level: 100%
Error		One light flashes red (Left).	Left drive failure
		One light flashes red (Right).	Right drive failure
		One light flashes red (Bottom).	Water pump failure
		Two lights flash red (Left & bottom).	Gyroscope failure
		Two lights flash red (Left & right).	Water sensor failure



The control panel display is only available if the power switch is set to **ON**.

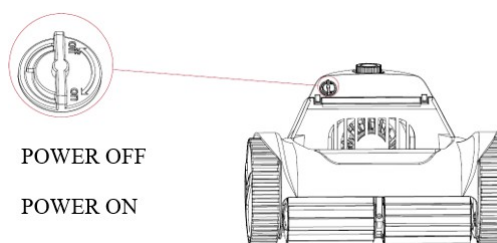


Figure 7. Power switch

If the robot is malfunctioning, it will park itself by the side of the pool. One or two lights on the control panel will flash red. Restarting the robot may resolve the error code and allow operations to resume. If the error code appears again, please check [Troubleshooting \(on page 18\)](#).

6.2. Using the robot

⚠ WARNING



Safety hazard

Do NOT use the robot when people or animals are in the pool.



When placing the robot into the water, make sure it is fully submerged, then turn the robot in different directions to release any trapped air.

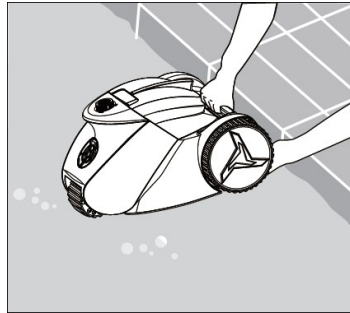


Figure 8. Releasing trapped air



Place the robot at the edge of the pool for quick coverage of the entire pool floor area.

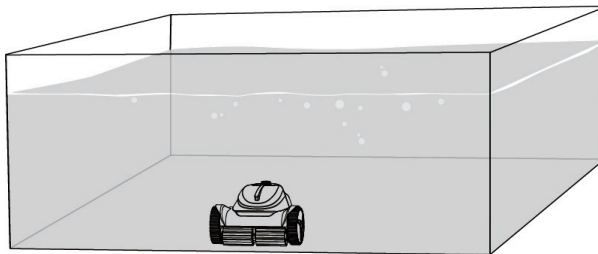




Figure 9. Efficient robot placement

1.  If the robot is not operated within 3 minutes of the lights flashing, the robot will shut down and enter **Sleep mode**. Press the control panel button to reactivate the robot.

Set the power switch to **ON**.



The robot beeps and the lights on the control panel flash. **Floor Cleaning mode** is the default cleaning mode, therefore the lights will flash green.

2. Press the control panel button to select a cleaning mode.
3.  Make sure that the arrow is properly aligned with the desired cleaning time. If the arrow is not properly aligned, the time to the left of the arrow will be selected.

Rotate the control panel button to select a cleaning time by aligning the arrow with the times on the rim of the button.

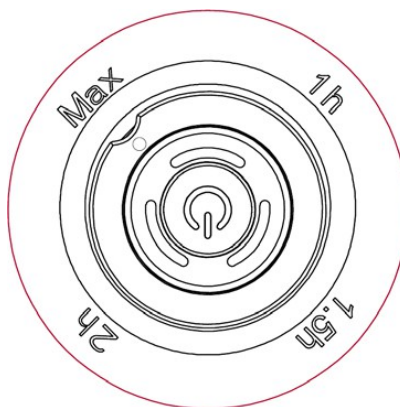


Figure 10. Control panel button

4. Carefully place the robot in the water.

➡ The robot will automatically start cleaning when it touches the pool floor.

6.3. Charging the robot

DANGER



Electrical hazard

The robot **MUST** be charged at least 3.5m away from all pool edges.

WARNING



Safety hazard

The cleaner **MUST** be charged indoors in a dry AND well-ventilated area, away from direct sunlight, children, heat, ignition sources AND pool chemicals.

In case of malfunction or release of odor from the robot when charging, disconnect it from the power supply immediately AND contact your dealer.

WARNING




Fire hazard

Charge only with the charger specified AND supplied by the manufacturer.

The robot **MUST** be charged in temperatures between 6-35°C to avoid damage to the battery and risk of fire.



The robot will not be charged if the temperature is higher than 50 °C.

1. Set the power switch to **ON**.
2.  The charging port cover will remain tethered to the robot's body. Do not lose the charging port cover.

Remove the cover from the charging port.

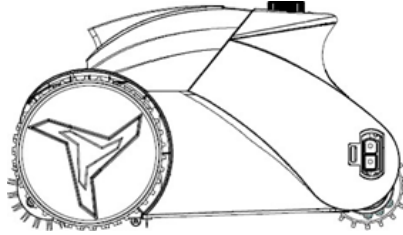


Figure 11. Charging port cover

3. Make sure that both the charging port and the charger are dry.
4. Plug the charger into the robot.

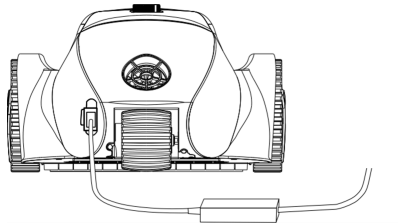






Figure 12. Charging the robot

5. Connect the charger to a 100-240V power supply.
 Three lights flash on the control panel to indicate that the robot is charging. The robot is fully charged once the three lights are lit green.

6.  Do not leave the charger plugged in after the robot is fully charged.

 Press  on the control panel to display the battery level.

Once the robot is fully charged, unplug the charger from the robot.

7. Unplug the charger from the power supply.
8. Store the charger in a safe place.
9.  Do not immerse the robot in water before putting the charging port cover back on the robot.

Insert the cover back onto the charger port.

7. Maintenance

 **DANGER**



Electrical hazard

Disconnect the adapter from the power supply **BEFORE** performing any cleaning **AND** maintenance.

⚠ WARNING

Safety hazard

Set the power switch to **OFF** BEFORE performing any cleaning AND maintenance on the robot to avoid injuries caused by impeller rotation.

7.1. Cleaning the filter basket


⚠ WARNING

Safety hazard

Wear rubber gloves AND other appropriate protective clothing while cleaning.

After a cleaning cycle, the robot will park itself beside the pool. Clean the filter basket thoroughly after each cleaning cycle. Otherwise, the cleaning and climbing performance may be affected when the filter is full or clogged.

Clean the clogged filter annually with a mild acidic detergent.

1. Use the hook to catch the robot's handle.
2. Carefully remove the robot from the pool.
3.  Drain the water slowly and carefully to prevent back injury.

Hold the robot by the pool edge until it is drained of water.

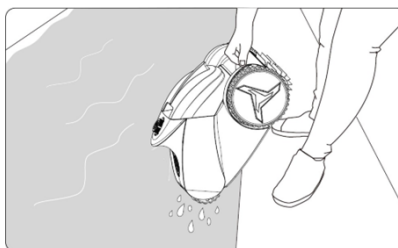


Figure 13. Draining the robot of water

4. Open the filter basket as shown below.



Figure 14. Opening the filter basket

5. Clean the filter basket as shown below.

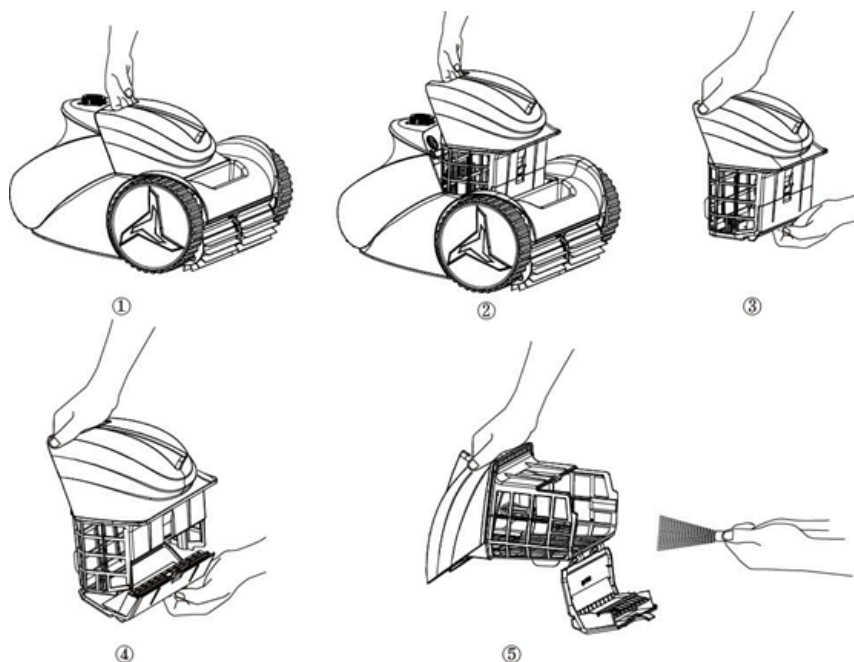


Figure 15. Cleaning the filter basket

6. After cleaning, store the robot in a cool, dry place out of direct sunlight.

7.2. Impeller maintenance

⚠ WARNING



Safety hazard

Wear gloves when removing the impeller to prevent injury from its sharp edges.

If the robot suffers from reduced suction or climbing performance, the impeller or impeller shaft may be blocked.

- i** Contact the dealer for assistance if you have any difficulty with impeller maintenance.

1. Make sure that the power switch is set to **OFF**.

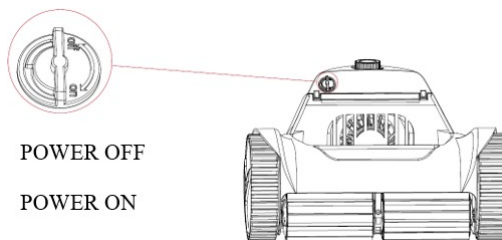


Figure 16. Power switch

2. Visually check if the impeller or impeller shaft is entangled with hair or other debris.
3. **!** Make sure the robot is drained of water before lifting it or turning it upside down, see [Cleaning the filter basket \(on page 15\)](#).

Turn the robot upside down.

4. Remove the rear wheel fixing screw.
5. Remove the rear wheel.

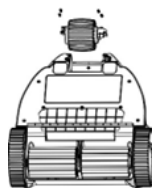


Figure 17. Removing the rear wheel

6. Remove the fixing screws from the bottom cover.
7. Remove the bottom cover.



Figure 18. Removing the bottom cover

8. Remove the fixing screws from the water pump motor cover assembly.
9. Remove the water pump motor cover assembly.

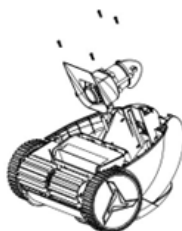


Figure 19. Removing the water pump motor cover assembly

10. Remove the air deflector fixing screws.
11. Remove the air deflector.



Figure 20. Removing the air deflector.

12. Remove the impeller screw.
13. Remove the impeller.



Figure 21. Removing the impeller


14. Clean the debris trapped in the impeller.



Figure 22. Cleaning the impeller

15. Reassemble all parts mentioned above in order.

8. Troubleshooting

Failure	Possible reason	Solution
Charging failure	Debris on the electrode of charging head (Non-failure).	Clean the debris.
	The temperature is higher than 50 °C.	Place the robot in a 6~35 °C temperature environment.
	The charging kit is damaged.	Replace the charging kit.
Switching on failure	The power switch is set to OFF (Non-failure).	Turn on the power.
	Wrong operation (Non-failure).	Hold  for 3 seconds.
	No power in the battery (Non-failure).	Fully charge the robot.
Not working (not moving, not pumping)	Low battery (Non-failure).	Fully charge the robot.
	Robot out of water (Non-failure).	Make sure the robot is underwater and the indicator lights are on.
	Filter basket is full (Non-failure).	Clean the filter basket.
Moving but not pumping	The impeller is stuck.	Check whether there is too much debris in the guide ring affecting the rotation of the impeller (Please set the power switch to OFF before operation to avoid injuries caused by the impeller rotation).
	Filter basket is full (Non-failure).	Clean filter basket.
	Water inlet is blocked(Non-failure).	Take out of filter basket and clean water inlet.
	Low battery (Non-failure).	Fully charge the robot.
Pumping but not moving	The moving motor is stuck.	Please contact the dealer for a replacement.
	The track has moved and is stuck (Non-failure).	Turn the robot upside down and roll the track forward and backward to put the track back in place.
	Track is damaged.	Replace the track.

Failure	Possible reason	Solution
	Scrubber is stuck (Non-failure).	Clean scrubber.
	The robot got stuck on an obstacle and shut down for auto-protection (Non-failure).	Remove the obstacle and restart the robot.
	Filter basket is full (Non-failure).	Clean the filter basket.
Not climbing	Floor Cleaning mode is active (Non-failure).	Activate Full Cleaning mode .
	The impeller is stuck.	Check whether there is too much debris in the guide ring affecting the rotation of the impeller (Please set the power switch to OFF before operation to avoid injuries caused by the impeller rotation).
	Filter basket is full (Non-failure).	Clean the filter basket.
	Water inlet is blocked (Non-failure).	Take out the filter basket and clean the water inlet.
Poor cleaning capability	Low battery (Non-failure).	Fully charge the robot.
	The impeller is stuck.	Remove any debris or hair in the guide ring.
	Filter basket is full (Non-failure).	Clean the filter basket.
	Water inlet is blocked (Non-failure).	Take out the filter basket and clean the water inlet.
	Scrubber is damaged.	Replace the scrubber.
	Filter basket is damaged.	Replace the filter basket.
Unusual non-stop	Software failure.	First set the power switch to OFF and then set it to ON .
Error code	<ol style="list-style-type: none"> 1. Left drive failure. 2. Right drive failure. 3. Water pump failure. 4. Gyroscope failure. 5. Water sensor failure. 	Restart the robot using power switch to check if the code disappears. If it does not, please contact the dealers.

NOTE

If these solutions don't work, please contact the nearest after-sales service center or dealer, and share your model's name and problem description.

9. Disposal

WARNING



Safety hazard

Wear complete eye protection, gloves AND protective clothing when disposing the cleaner.



The robot contains a rechargeable Lithium-ion battery pack, which should be recycled by qualified battery electronics recyclers. Recycling of batteries and battery-containing products benefits the environment and human health.



If the robotic pool cleaner is still in working condition, consider selling or donating it to a local organization or individual who may be in need of it.



■ This symbol is required by European Community Directive 2012/19/UE on WEEE (Waste Electrical and Electronic Equipment) and means that your appliance must not be thrown into a normal bin. It will be selectively collected for the purpose of reuse, recycling or transformation. Any substances it may contain which are potentially dangerous to the environment shall be eliminated or neutralized. Request information on recycling procedures from your retailer.

AQUA[®] FORTE

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