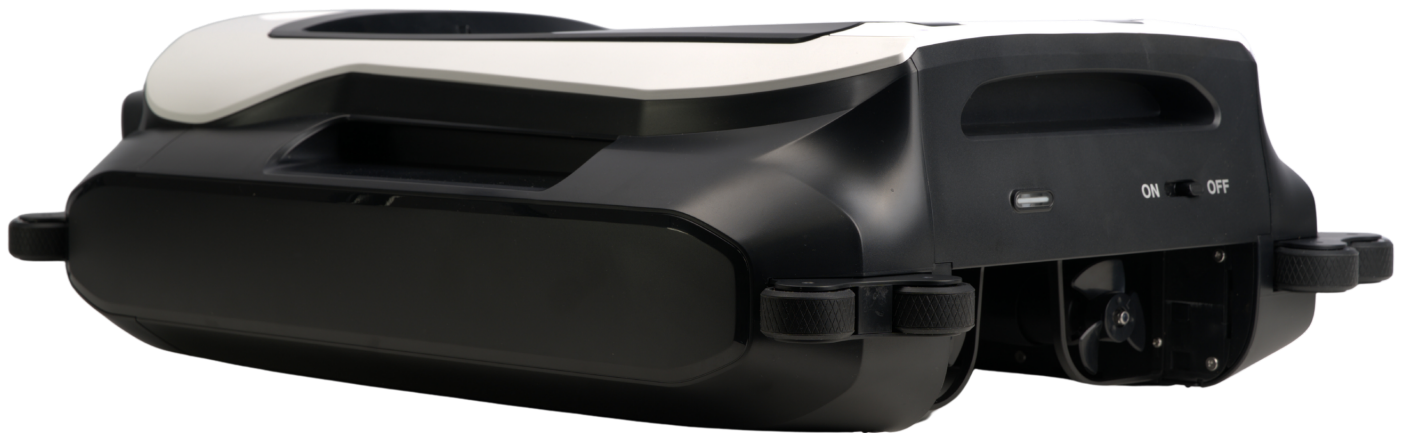




AquaSkim Robotic Solar Pool Skimmer

User's Manual
LU-ASKIM



Important Safety Instructions

Read, Understand, and Follow All Safety and Operation Instructions.
Failure to follow these instructions may result in severe injury or death.

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FCC Compliance Statement

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. ITS OPERATION IS SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE DEVICE MUST NOT CAUSE HARMFUL INTERFERENCE.
2. THE DEVICE MUST ACCEPT ANY INTERFERENCE IT RECEIVES, EVEN IF IT CAUSES UNINTENDED OPERATION.

IMPORTANT: ANY MODIFICATIONS OR CHANGES TO THIS DEVICE THAT ARE NOT EXPRESSLY APPROVED BY THE MANUFACTURER MAY VOID YOUR AUTHORITY TO OPERATE IT.

NOTE: THIS PRODUCT HAS BEEN TESTED AND COMPLIES WITH THE STANDARDS FOR A CLASS B DIGITAL DEVICE, DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST INTERFERENCE IN RESIDENTIAL ENVIRONMENTS. HOWEVER, INTERFERENCE WITH RADIO OR TELEVISION SIGNALS MAY STILL OCCUR. IF YOU EXPERIENCE SUCH INTERFERENCE, TRY THE FOLLOWING STEPS TO RESOLVE THE ISSUE:

- REPOSITION OR MOVE THE RECEIVING ANTENNA.
- INCREASE THE DISTANCE BETWEEN THE DEVICE AND THE RECEIVER.
- PLUG THE DEVICE INTO A DIFFERENT OUTLET ON A SEPARATE CIRCUIT.
- CONTACT A PROFESSIONAL TECHNICIAN OR YOUR DEALER FOR FURTHER ASSISTANCE.

FCC RADIATION EXPOSURE STATEMENT

THIS PRODUCT MEETS FCC RADIATION EXPOSURE GUIDELINES FOR UNCONTROLLED ENVIRONMENTS. TO ENSURE SAFE OPERATION, MAINTAIN A MINIMUM DISTANCE OF 20 CM (APPROXIMATELY 8 INCHES) BETWEEN THE DEVICE AND YOUR BODY.

IC WARNING

THIS DEVICE COMPLIES WITH INDUSTRY CANADA'S LICENCE-EXEMPT RSS STANDARDS(S). OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

1. THIS DEVICE MAY NOT CAUSE INTERFERENCE, AND
2. THIS DEVICE MUST ACCEPT ANY INTERFERENCE, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION OF THE DEVICE.

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

IC RF STATEMENT:

WHEN USING THE PRODUCT, MAINTAIN A DISTANCE OF 20CM FROM THE BODY TO ENSURE COMPLIANCE WITH RF EXPOSURE REQUIREMENTS.

Important Safety Instructions

Please read the following safety instructions and follow all usual safety precautions before using this product. Please read this manual carefully and keep this manual. Any operation inconsistent with this instruction manual may cause damage to the product.

HOST AND ACCESSORIES RELATED SAFETY PRECAUTIONS

WARN

1. DO NOT DISASSEMBLE, REPAIR, OR MODIFY THE MACHINE YOURSELF, OTHERWISE IT WILL DAMAGE THE PRODUCT AND CAUSE DANGER.
2. DO NOT USE THIS PRODUCT IN AN ENVIRONMENT WHERE THERE IS A POSSIBILITY OF FIRE OR EXPLOSION.
3. DO NOT STAND OR SIT ON THE PRODUCT AS IT MAY CAUSE DAMAGE TO THE PRODUCT OR FALL.

CAUTION

1. WHEN THE GARBAGE BASKET IS FULL, PLEASE EMPTY THE GARBAGE BEFORE USING THE MACHINE.
2. THE USE TEMPERATURE RANGE OF THIS PRODUCT IS 0 DEGREES CELSIUS TO 40 DEGREES CELSIUS, DO NOT USE IN HIGH OR LOW TEMPERATURE ENVIRONMENT.
3. THIS APPLIANCE CAN BE USED BY CHILDREN AGED FROM 8 YEARS AND ABOVE AND PERSONS WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES OR LACK OF EXPERIENCE KNOWLEDGE IF THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE. CLEANING AND USER MAINTENANCE SHALL NOT BE MADE BY CHILDREN WITHOUT SUPERVISION.
4. PLEASE REMOVE THE BATTERY FROM THE MACHINE BEFORE SCRAPPING THE PRODUCT. WHEN REMOVING THE BATTERY, PLEASE ENSURE THAT THE PRODUCT IS NOT CONNECTED TO THE POWER SUPPLY.
5. THE RECYCLED BATTERIES ARE CENTRALLY PLACED IN THE BATTERY RECYCLING BINS OR HARMFUL GARBAGE BINS SET UP IN COMMUNITIES, HOTELS, SCHOOLS, LARGE SHOPPING MALLS, SUPERMARKETS, ETC., AND COLLECTED BY PROFESSIONAL RECYCLING AGENCIES. WASTE PRODUCT BATTERIES MUST BE REMOVED AND DISCARDED IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS.
6. IF NOT USED FOR A LONG TIME, PLEASE TURN OFF THE POWER SWITCH AND RECHARGE REGULARLY.
7. THIS APPLIANCE MUST ONLY BE SUPPLIED AT SAFETY EXTRA LOW VOLTAGE CORRESPONDING TO THE MARKING ON THE APPLIANCE.
8. THIS APPLIANCE CONTAINS BATTERIES THAT ARE ONLY REPLACEABLE BY SKILLED PERSONS.
9. IT IS PROHIBITED TO USE THIS MACHINE IN POOLS WHERE THE PH VALUE IS STRONG ALKALI OR STRONG ACID.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

How to Remove the Battery

Follow these steps to safely remove the battery from AquaSkim.

1. Remove the Bottom Cover

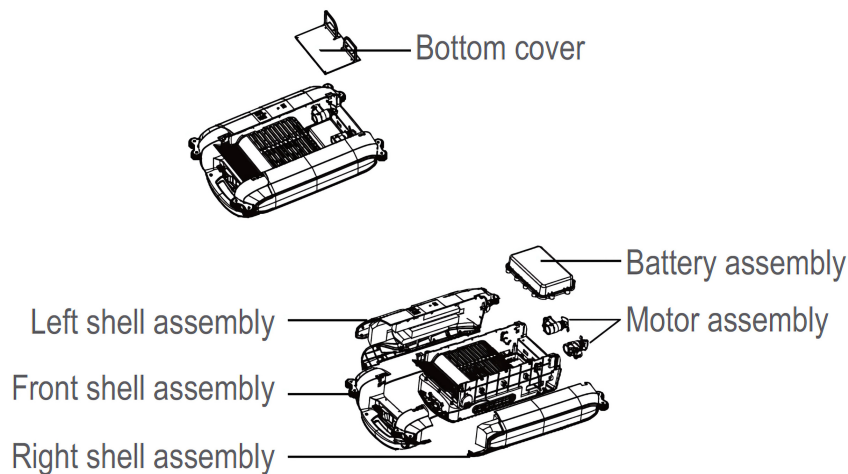
- Unscrew the 6 screws on the bottom cover.
- Carefully remove the bottom cover and set it aside.

2. Disassemble the Shell and Motor Assembly

- Unscrew the 52 screws from the left, right, and front shell assemblies.
- Remove the 8 screws securing the motor assembly on both sides.
- Finally, unscrew the 12 screws holding the battery assembly.
- Note: The battery assembly is sealed with sealant. Carefully detach the sealant to unplug the link cable and remove the battery assembly.

3. Remove the Battery from the Compartment

- Remove the sealant around the battery compartment.
- Unscrew the 4 screws securing the battery compartment.
- Take out the battery safely.

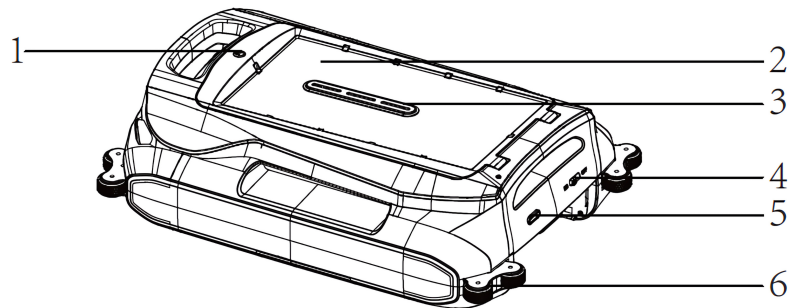


IMPORTANT NOTES

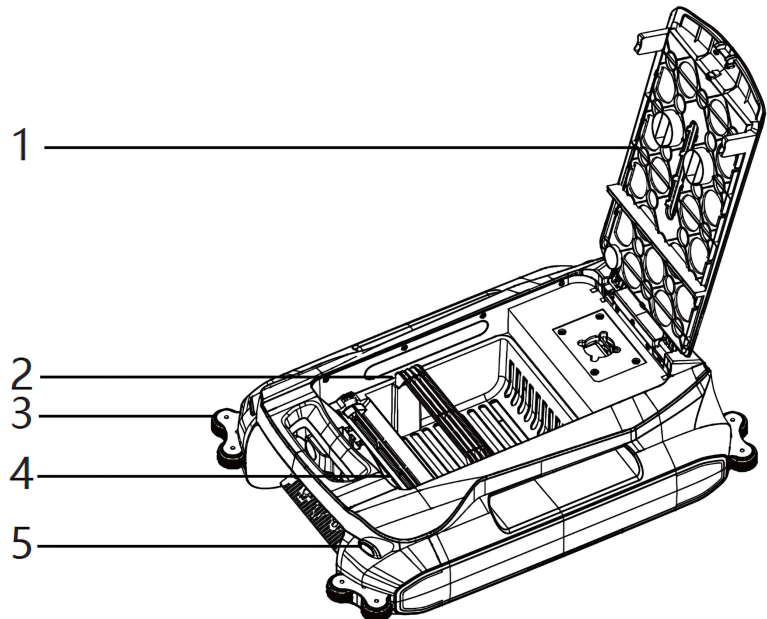
- FOLLOW THESE STEPS CAREFULLY TO AVOID DAMAGING THE UNIT.
- ENSURE AQUASKIM IS POWERED OFF AND DISCONNECTED BEFORE STARTING.
- BATTERY REMOVAL SHOULD BE PERFORMED ONLY WHEN NECESSARY, AND USED BATTERIES MUST BE DISPOSED OF PROPERLY ACCORDING TO LOCAL REGULATIONS.

Product Overview

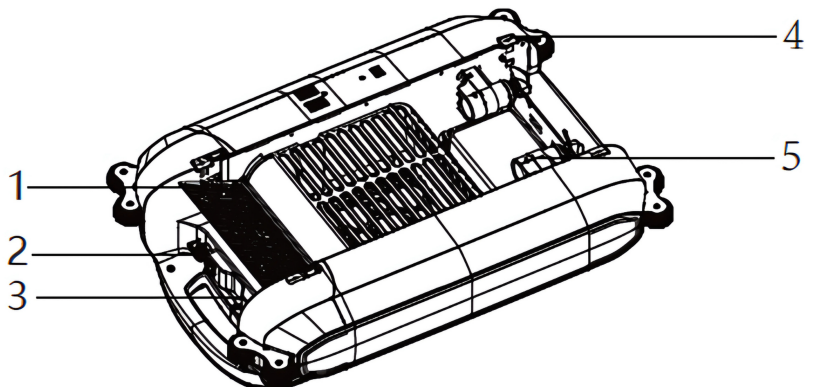
- 1 - Flip Open Button
- 2 - Solar Panels
- 3 - Trash Basket Detection Port
- 4 - Power Switch
- 5 - Rear LED Light
- 6 - Guide Wheel



- 1 - Fliptop
- 2 - Trash Basket
- 3 - Guide Wheel
- 4 - Impeller
- 5 - Front LED Light



- 1 - Garbage Collection Board
- 2 - Type-C Charging Port Seal Cover
- 3 - Ultrasonic Obstacle Avoidance Sensor
- 4 - Anti-Kara Rod
- 5 - Propeller Motor

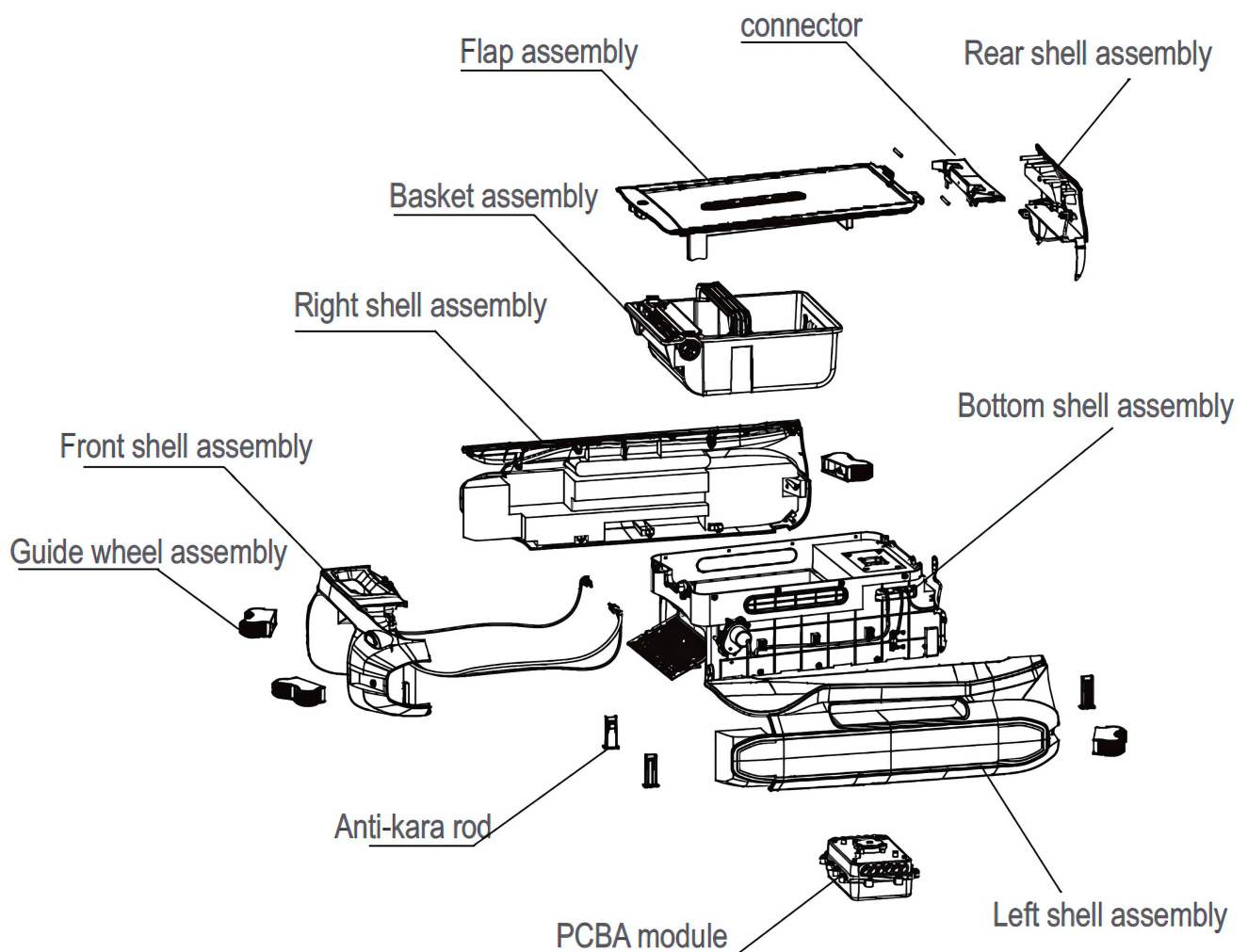


Device Specifications

General Specifications

- Dimensions: 663 x 453 x 193 mm
- Net Weight: 6 kg
- Charging Input: 5V, 2A (Type-C)
- Battery Capacity: 5100mAh (Typical)
- Power: 3W
- Trash Basket Capacity: 4.5L
- Charging Time: 5.5 hours

Replacement Parts



Operating Instructions

Operational Guide

Check the Trash Basket

- Before use, press the Lid Release Button to confirm that the trash basket is securely in place.

Tie Rod Operation

- If the water surface is close to the pool's edge, press the Tie Rod Catch and gently pull the tie rod to adjust the machine's positioning.
- AquaSkim must be placed gently on the water. Avoid dropping or throwing the unit, as this may damage the solar panels.

Instructions for Use

Power On and Operation

1. Turn on AquaSkim using the Power Switch. The green indicator light will turn on, and the unit will begin operation within 3–5 seconds.
2. AquaSkim will automatically navigate and clean the pool while avoiding obstacles.

Solar Charging and Sleep Mode

- If the battery level drops below 20%, AquaSkim will pause and move to an area with strong sunlight to recharge. It will resume operation automatically once the battery reaches 30%.
- During low light or nighttime, AquaSkim will enter sleep mode. The unit will restart automatically when sunlight becomes sufficient for operation.

Indoor Charging

- When using AquaSkim indoors, charge the unit with a 5V 2A Type-C adapter.
 - Ensure the charging port is dry and clean before connecting the charger.
 - Keep the Power Switch on while charging.
- During charging, AquaSkim will stop working. Once the battery is full, tighten the charging port cover to prevent water entry.

Connecting to the AquaSkim App

1. Download the "Illuminex" App from the Google Play Store or Apple App Store.
2. Enable Bluetooth and Wi-Fi on your smartphone.
3. Open the app and select "Add Device".
4. Turn the skimmer on by toggling the on/off switch button.
5. Follow on-screen prompts to complete the setup.

LED Indicator Guide

1. **Green Light (Flashing Quickly)** – AquaSkim is being controlled via the app.
2. **Green Light (Flashing Slowly)** – AquaSkim is automatically cleaning the pool.
3. **Red Light (Breathing)** – The trash basket is full and needs emptying.
4. **Red Light (Flashing Slowly)** – Battery power is low.
5. **Red Light (Flashing)** – AquaSkim is charging. The light will turn off when charging is complete.
6. **Red Light (Steady On)** – A fault has been detected; check the unit for issues.
7. **Green Light (Steady On)** – AquaSkim is in standby mode. The lights will turn off automatically when the unit enters sleep mode.

Troubleshooting and Maintenance

Troubleshooting

Impeller or Propeller Blockage

- **Issue:** If a foreign object clogs the impeller or propeller, the motor speed will slow, and the LED light will remain steady red.
- **Solution:**
 - Turn off the AquaSkim and clean the blockage.
 - Restart the machine to resume operation.

Low Battery

- **Issue:** When the battery is low, the LED light will flash red.
- **Solution:**
 - Place AquaSkim in an area with sufficient sunlight for solar charging.
 - Alternatively, charge the device using a Type-C adapter.

Ultrasonic Sensor Malfunction

- **Issue:** If the ultrasonic sensor becomes dirty or water-stained, AquaSkim may rotate continuously in working mode.
- **Solution:**
 - Wipe the ultrasonic sensor clean with a soft towel.
 - Restart the machine to restore normal operation.

Maintenance

1. Trash Basket Maintenance

- Press the Lid Release Button to open the compartment.
- Remove the trash basket from AquaSkim.
- Empty the debris, rinse the basket with clean water, and dry it if needed.
- Reinsert the trash basket securely into the machine.

Instructions for Use

1. Solar Panel Cleaning

- To maintain optimal solar charging efficiency, regularly clean the solar panels.
- Remove dust, leaves, and debris.
- Rinse the panels with clean water and gently wipe them dry using a soft cloth or towel.

2. Ultrasonic Sensor Maintenance

- Regularly inspect and clean the ultrasonic sensors.
- If dirt, dust, or water stains are present, they may interfere with AquaSkim's navigation, causing it to rotate continuously.
- Use a soft, clean towel to gently wipe the sensors and restore normal operation.

Operational Issues and Fixes

Fault	Possible Causes	Solution
Machine Does Not Work	The power switch is not turned on.	Turn on the power switch.
	The battery is out of power or insufficiently charged.	Fully charge the battery using the adapter or place AquaSkim in sunlight (resumes at 30% charge).
	An alarm fault has been triggered.	Check the LED indicator or app prompts and troubleshoot accordingly.
	The trash basket is full, and the light is flashing red.	Empty the trash basket, then restart the machine to clear the fault.
	The machine is in non-automatic cleaning mode.	Enable auto-cleaning mode via the app or restart the machine.
The Product Cannot Be Charged	The power switch is turned off.	Turn on the power switch.
	The Type-C charging cable is not fully inserted.	Ensure the charging cable is securely plugged in.
	Insufficient outdoor sunlight.	Use the Type-C adapter for charging indoors.
Machine Rotates in Place	The ultrasonic sensor surface is dirty or water-stained.	Clean the ultrasonic sensor gently with a soft towel.

Warranty Information

Illuminex is committed to delivering high-quality products and ensuring excellent customer satisfaction. The AquaSkim Robotic Solar Pool Skimmer is covered under a comprehensive warranty to provide you with long-lasting performance and peace of mind.

1. Warranty Period

- **1-Year Warranty:** Illuminex warrants the AquaSkim Robotic Solar Pool Skimmer against defects in materials and workmanship for one year from the date of purchase. This warranty applies to the original purchaser of the product.

2. What is Covered

- **Materials and Workmanship:** The warranty covers any defects or failures resulting from faulty materials or poor workmanship under normal residential or commercial use during the warranty period.

3. What is Not Covered

- **Damage Due to Improper Use or Installation:** The warranty does not cover damage caused by incorrect installation, improper use, or failure to follow the installation and operation instructions provided in this manual.
- **Environmental Damage:** Damage caused by external factors such as lightning, floods, or other natural disasters is not covered by this warranty.
- **Regular Wear and Tear:** Normal wear and tear, including degradation due to exposure to pool chemicals, UV rays, or weather conditions, is not covered.
- **Unauthorized Repairs:** Any damage or defects resulting from repairs or modifications made by unauthorized personnel will void the warranty.

4. How to Make a Warranty Claim

- **Contact Illuminex:** To make a warranty claim, contact Illuminex customer service with your proof of purchase and details of the issue.
- **Inspection and Repair:** If your claim is valid, Illuminex will repair or replace the defective part or product.
- **Return Policy:** In some cases, Illuminex may require the return of the defective product for inspection before issuing a replacement.

5. Limitations of Liability

This warranty is the only express warranty provided by Illuminex. No other warranties, whether express or implied, including warranties of merchantability or fitness for a particular purpose, apply. Illuminex shall not be liable for any incidental or consequential damages arising from the use or failure of this product.