Pentair EC-602230

Pentair EC-602230 IntelliBrite® LED Architectural Series Pool and Spa White Light User Manual

Model: EC-602230

1. Introduction

This manual provides essential instructions for the safe installation, operation, and maintenance of your Pentair IntelliBrite® LED Architectural Series Pool and Spa White Light (Model EC-602230). This advanced LED lighting system is designed to enhance your pool and spa environment with bright, energy-efficient white illumination. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. Safety Information

WARNING: Failure to follow these instructions can result in severe injury or death. All electrical work must be performed by a qualified electrician and comply with all local and national electrical codes.

- Always disconnect power to the pool light at the circuit breaker before attempting any service or maintenance.
- This product must be installed in accordance with the National Electrical Code (NEC) and all applicable local codes and ordinances.
- Ensure the light is properly bonded and grounded to prevent electrical shock hazards.
- Do not operate the light out of water. Operating the light without proper water circulation can cause overheating and damage.
- Keep children away from electrical equipment.

3. Package Contents

Verify that all components are present before beginning installation:

- Pentair IntelliBrite® LED Architectural Series White Light (Model EC-602230)
- 100-foot electrical cord (attached to the light fixture)

- Installation gasket and hardware (may vary by specific kit)



Figure 1: Pentair IntelliBrite LED Architectural Series Pool Light. This image displays the circular, metallic pool light fixture with a central lens and decorative outer ring.

4. Setup and Installation

Installation of this pool light requires specialized knowledge of pool construction and electrical systems. It is highly recommended that a qualified, licensed professional perform the installation.

4.1 Pre-Installation Checks

- Ensure the niche is clean and free of debris.
- Verify that the conduit is properly sealed and watertight.
- Confirm the power supply matches the light's requirements (120V).

4.2 Installation Steps (Overview)

1. **Prepare the Niche:** Ensure the light niche is ready for installation.
2. **Route the Cord:** Carefully feed the 100-foot electrical cord through the conduit to the junction box. Leave sufficient slack for servicing.
3. **Connect Wiring:** At the junction box, connect the light's electrical cord to the power supply wiring

according to local electrical codes. Ensure all connections are secure and waterproof.

4. **Install Gasket and Light:** Position the new gasket (if applicable) and carefully place the light fixture into the niche. Secure it using the provided hardware.
5. **Submerge and Test:** Ensure the light is fully submerged before restoring power. Turn on the power and test the light's operation.

Refer to the detailed installation guide provided with the product packaging for specific instructions and diagrams.

5. Operating Instructions

The Pentair IntelliBrite LED Architectural Series White Light is designed for simple operation, typically controlled via a standard light switch or a Pentair automation system.

- **Manual Operation:** To turn the light ON or OFF, use the dedicated light switch connected to the pool light circuit.
- **Automation System Integration:** For advanced control, including scheduling and remote operation, integrate the light with a compatible Pentair automation system (e.g., IntelliTouch®, EasyTouch®, or IntelliCenter®). Refer to your automation system's manual for specific integration instructions.
- **Initial Power-Up:** Upon initial power-up, the light will illuminate in its standard white mode.

6. Maintenance

The IntelliBrite LED light is designed for minimal maintenance. Regular inspection and cleaning will help ensure optimal performance.

- **Regular Inspection:** Periodically inspect the light fixture and cord for any signs of damage, wear, or leaks. Address any issues promptly.
- **Cleaning:** If the lens becomes dirty or covered with algae, gently clean it with a soft brush or cloth. Do not use abrasive cleaners or harsh chemicals. Ensure power is disconnected before cleaning.
- **Winterization:** Follow standard pool winterization procedures. If the pool water level is lowered below the light, ensure the light is removed or protected from freezing temperatures.

7. Troubleshooting

This section addresses common issues you might encounter with your IntelliBrite LED pool light.

Problem	Possible Cause	Solution
Light does not turn ON.	◦ No power to the circuit. ◦ Faulty switch or wiring. ◦ Damaged light fixture.	◦ Check circuit breaker. ◦ Inspect switch and wiring (by a qualified electrician). ◦ Contact Pentair support or a service professional.

Problem	Possible Cause	Solution
Light is dim or flickers.	◦ Low voltage. ◦ Loose wiring connection. ◦ Internal light issue.	◦ Verify correct voltage supply. ◦ Check wiring connections (by a qualified electrician). ◦ Contact Pentair support.
Water inside the light fixture.	◦ Seal failure. ◦ Improper installation.	◦ Immediately disconnect power. ◦ Contact a qualified service professional for inspection and replacement.

For issues not listed here or if troubleshooting steps do not resolve the problem, contact Pentair Customer Support or a certified pool professional.

8. Specifications

Model Number	EC-602230
Product Type	LED Architectural Series Pool and Spa White Light
Voltage	120V
Wattage	18W
Cord Length	100 feet
Light Color	White
Product Dimensions	12 x 12 x 10 inches
Item Weight	13.25 pounds
Manufacturer	Pentair

9. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official Pentair website. If you require technical assistance, replacement parts, or have questions regarding your IntelliBrite LED light, please contact Pentair Customer Support:

- **Pentair Official Website:** www.pentair.com
- **Customer Service:** Refer to the website for current contact numbers and support options.

Always provide your product model number (EC-602230) when contacting support.

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