



UCL Series Underwater Large Lighting Niche

for ColorLogic® and CrystaLogic™ Pool/Spa lights

Owner's Manual



Contents

Light Warnings.....	2
Introduction.....	3
Important Information.....	3
Installation.....	4
Replacement Parts.....	7
General Warnings.....	8
Warranty.....	10
Registration Card.....	11



LFGUY1000

IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.



This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.



WARNING warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.



CAUTION warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

The **NOTICE** label indicates special instructions that are important but not related to hazards.

Hayward Pool Products
620 Division Street, Elizabeth NJ 07207
www.hayward.com



⚠ WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.



⚠ WARNING – ELECTRIC SHOCK HAZARD. MOUNTING A LUMINAIRE THAT REQUIRES BONDING OR GROUNDING IN THIS NICHE CAN CAUSE SEVERE INJURY AND/OR DEATH. DO NOT MOUNT NON-UL LISTED LIGHTS OR ANY LUMINAIRE THAT REQUIRES BONDING OR GROUNDING IN THIS NICHE.



⚠ WARNING – Risk of Electric Shock. Hazardous voltage can shock, burn, and cause death or serious property damage. All electrical wiring **MUST** be in conformance with applicable local codes, regulations, and the National Electrical Code (NEC). To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment.



⚠ WARNING – Risk of Electric Shock. Opening light can cause shock, burn and severe injury. Light has no user serviceable parts inside. Do not open light.

⚠ NOTICE – This swimming pool or spa light is UL listed for permanently installed pools or spas only. It is not listed for storable pools or spas. Permanently installed pools and spas are those constructed in or partially in the ground and all others capable of holding water in a depth greater than 42 in (1.07 m). Storable pools and spas are those constructed on or above the ground and capable of holding water to a maximum of 42 in (1.07 m).



⚠ WARNING – Electrical shock hazard. Damage to wiring can cause severe injury or death. To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment.

SAVE THESE INSTRUCTIONS



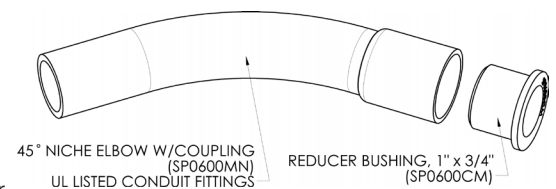
Introduction


Unlike metallic forming shells (niches), the UCL underwater lighting niches are injection-molded of PVC for superior performance, non-corrosive durability and plumbing versatility - plus the lowest installed cost. This unique shallow niche does not require a secondary dig and dedicated rebar light cage allowing you to save 1/3 yd. of gunite during the building process. In addition, the non-metallic design does not require bonding or grounding and uses PVC over expensive metal conduit. All of these features enable the UCL underwater lighting niches to offer faster installation time and huge bottom line savings in material and labor.

This UCL underwater lighting niche is for concrete/gunite pools. When paired with a Hayward Universal ColorLogic® or CrystaLogic™ LED light fixture, you have the best quality and value in a lighting system available anywhere. The UCL underwater lighting niche Model LFGUY1000 is furnished with (2) conduit fittings (reducer and elbow/coupling) to allow for specific installation requirements.

Important Information

1. This UCL underwater lighting niche are Underwriters Laboratories (UL) Listed under Category WBTD. They are C-UL-US Listed for fresh and sea water and comply with Article 680.23 of the National Electrical Code [NEC].
2. This UCL underwater lighting niche does not contain or require a bonding or a grounding connector. It is designed to exclusively mount the Hayward all plastic Universal ColorLogic/CrystaLogic LED pool/spa lights. The UL listing for this niche allows it to be used with Hayward's non-bonded non-grounded Universal ColorLogic/CrystaLogic low voltage pool/spa lights.
3. This UCL underwater lighting niche model LFGUY1000 is C-UL-US Listed only for use with Hayward Universal ColorLogic/CrystaLogic Submersible Light Fixture Series LPCUS, LPCUN, LPLUS and LPWUS.
4. All UCL underwater lighting niches must be installed in compliance with Article 680.23 of the National Electrical Code (NEC) and other applicable electrical codes and with any applicable building codes. Article 680 requires that light fixtures be installed with the top of the lighting lens at least 4 inches (10 cm) below the normal water level of the pool or spa.
5. The UCL underwater lighting niches are provided with two (2) Conduit Fittings. A 1", 45° sweep elbow and a 1"x 3/4" reducer bushing are provided for connection convenience to PVC conduit. These conduit fittings must be cemented to the niche (forming shell), field supplied conduit pipe and other conduit fittings using approved PVC primer and cement.
6. All UCL underwater lighting niches are equipped with an internally-threaded connection for pressure testing of conduit line before installing light. (A solid rubber plug must be used.)
7. When installing the Universal ColorLogic/CrystaLogic light into the niche, use the cord seal to seal the conduit entry. Use the 12 gauge plug (larger hole) with any model that utilizes a 12 gauge cord and use the 14 gauge plug (smaller hole) with models using a 14 gauge cord. (See page 5 for cord seal installation).



 **WARNING** – ELECTRIC SHOCK HAZARD. MOUNTING A LUMINAIRE THAT REQUIRES BONDING OR GROUNDING IN THIS NICHE CAN CAUSE SEVERE INJURY AND/OR DEATH. DO NOT MOUNT NON-UL LISTED LIGHTS OR ANY LUMINAIRE THAT REQUIRES BONDING OR GROUNDING IN THIS NICHE.



Installation

Features of LFGUY1000 UCL Underwater Lighting Niche

1. Mounting feet with tie-off holes make it easy to secure to rebar and ensure positive positioning during guniting.
2. Unique 360° ledge on the integral plaster ring prevents “slumping” during plastering.
3. Gunit / Plaster shield included with each niche, protects the niche and light mounting arrangement during gunit and plaster application.
4. The UCL underwater lighting niche minimizes over-dig, wasted concrete, and eliminates additional steel cages.
5. The UCL underwater lighting niche does not require bonding or grounding per UL Listing and NEC 680.23, for approved low voltage systems.
6. 45° conduit hub, allows 45°, 90° or straight out conduit connection with sweep elbow (included).
7. The UCL underwater lighting niche can be positioned for 12 o'clock, 3 o'clock, 6 o'clock, or 9 o'clock conduit exit.
8. Universal ColorLogic/CrystalLogic's all plastic, 12 volt design with an impact resistant lens, allows this niche to be installed such that the top of the light lens is no less than 4 inches (10 cm) below normal water level of pool.
9. The UCL underwater Lighting Niche can be installed in either the wall or the floor of the pool, spa or fountain.

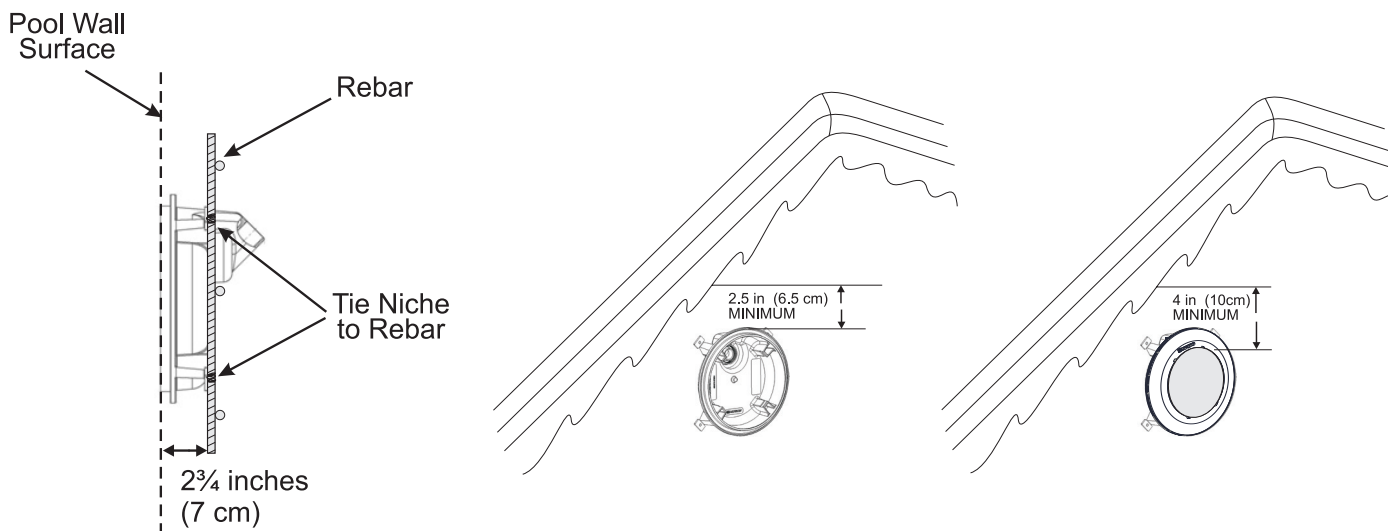
Model LFGUY1000 Underwater Lighting Niche is intended for installation in pools or spas with floors and walls formed of gunit or concrete (shotcrete) with a concrete reinforced by steel rebar.

Positioning

The base of the UCL niche front to back is 2¾ inches (7 cm). Position the back of the niche 2¾ inches (7 cm) from the finished pool surface. The niche needs to be tied to the steel rebar that is 2¾ inches (7 cm) from the pool surface. This will ensure that the niche is positioned so that the face of the niche is flush with the pool wall when the plaster finish has been completed.

The LFGUY1000 should be installed so that the top of the niche is no less than 2½ inches (6½ cm) from the water level (this will insure that the top of the lens will be no less than 4 inches (10 cm) below the water level). See diagram below. The niche should be tied to adjacent rebar such that the niche is tied at four points to sections of rebar. At the time the niches are installed, it may be necessary to add sections of rebar or move existing sections to one side or another.

NOTICE: THE NEC REQUIRES THAT THE TOP OF THE LIGHT LENS BE AT LEAST 4 INCHES (10 CM) BELOW THE WATER LEVEL.





Securing

1. Once the niche has been positioned to the rebar, it must be securely tied to the rebar with tie wire. Before tying niche in place, make certain that niche is vertically plumb and square to the form and that the outlet of the niche (where the conduit is to be connected) is rotated to the desired position. The gunite/plaster shield has lines inscribed that can be used to aid in leveling and squaring. The tie down flanges of the niche are provided with 5/16" diameter holes through which tie wire may be routed to facilitate securing the niche to the rebar. Tie wire can also be wrapped tightly around the outer circumference of the niche legs and then tied to the rebar. Once the niche is tied in place, confirm that it is still plumb and that the distance to the edge of the niche is positioned precisely where the plaster is expected to finish.
2. After attaching the niche to the rebar in the pool or spa wall, cement conduit and conduit fittings in place using approved PVC primer and cement.

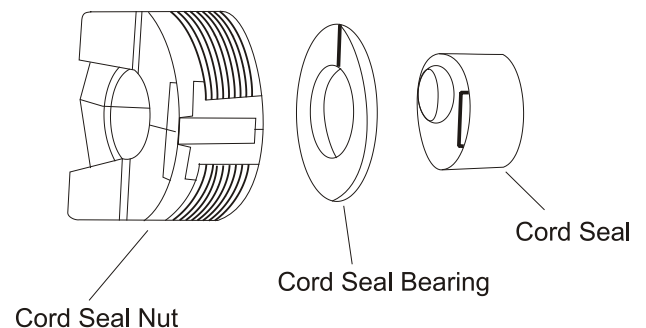
Guniting and Plastering

1. Install the provided gunite/plaster shield. The shield is intended to be installed during the gunite and plastering process. When finished guniting, remove the shield temporarily. Pull on the tab and remove the outer ring of the shield. With the outer ring removed, install the shield back on to the niche. Keep the shield in place while plastering and until the light is ready to be installed.
2. It is necessary to keep concrete or gunite from hardening on the outer edge and flange of the niche during pouring/shooting. Remove any gunite on the flange before it hardens.
3. The "plaster" is applied about 3/4" thick in the area surrounding the niche. The distance between the front edge and the flange of the niche is filled with plaster.
4. Make sure the front face of the niche (plastic edge just under the edge of the gunite/plaster shield) remains free of plaster. This edge is necessary to assure a proper alignment and mounting position for the light.

Sealing Cord

Refer to the Universal ColorLogic/CrystalLogic installation manual for detailed instructions on proper cord routing and wiring your new light. Before installing the Universal ColorLogic/CrystalLogic light into the niche, coil up the extra cord (3-4ft) and insert it in the LFGUY1000 niche. Seal the cord with the appropriate included cord seal by following the steps below:

1. With the light fixture electrical cord and all electrical wiring in place, slip the cord through the slit and into the large hole in the cord seal. From the conduit, the cord must enter the cord seal on the small end of the taper and exit on the large end of the taper.
2. Holding the light fixture electrical cord firmly in one hand, slide the cord seal toward the back of the niche housing and into the tapered hole. Appropriate cord lubrication may be necessary.
3. Slip the cord seal bearing over the light fixture electrical cord by flexing it over the cord at the split.
4. Install the cord seal nut by folding and snapping it around the light fixture electrical cord.
5. Push the cord seal bearing into the cord seal nut until it snaps into place.
6. Slide the cord seal nut on the wires toward the back of the niche housing and thread it into the niche housing threads.
7. Tighten snug (hand tight) as needed.



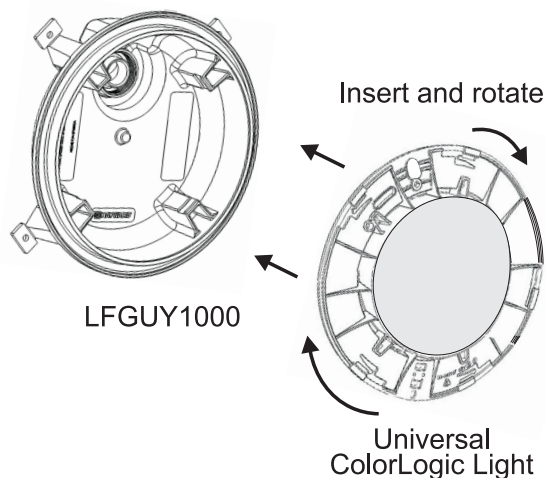


Securing Universal ColorLogic/CrystalLogic light

The Universal ColorLogic/CrystalLogic Light offers a unique tool-less installation when used with the LFGUY1000 niche. For complete installation instructions including removal of the Universal ColorLogic/CrystalLogic light, refer to the light manual.

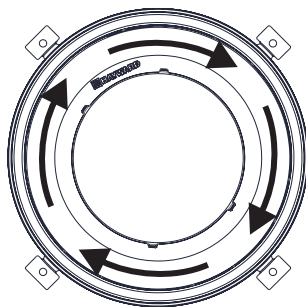
To prepare for installation, remove the mounting screw and spacer from the top of the light (this will not be needed for installation in the LFGUY1000 niche) and verify that the twist lock latch is installed (see ColorLogic/CrystalLogic manual). The twist lock latch will allow the light to fasten to the LFGUY1000 housing without the need for tools. Note that additional twist lock latches are included.

To mount the light, insert it into the niche with the mounting hole located at the 11 o'clock position. Twist the light fixture clockwise until it firmly locks. The mounting hole should now be at the 12 o'clock position.



Install the trim ring by positioning the Hayward logo at the 11 o'clock position onto the light fixture. Twist the trim ring clockwise until it firmly locks. The Hayward logo should now be in the 12 o'clock position.

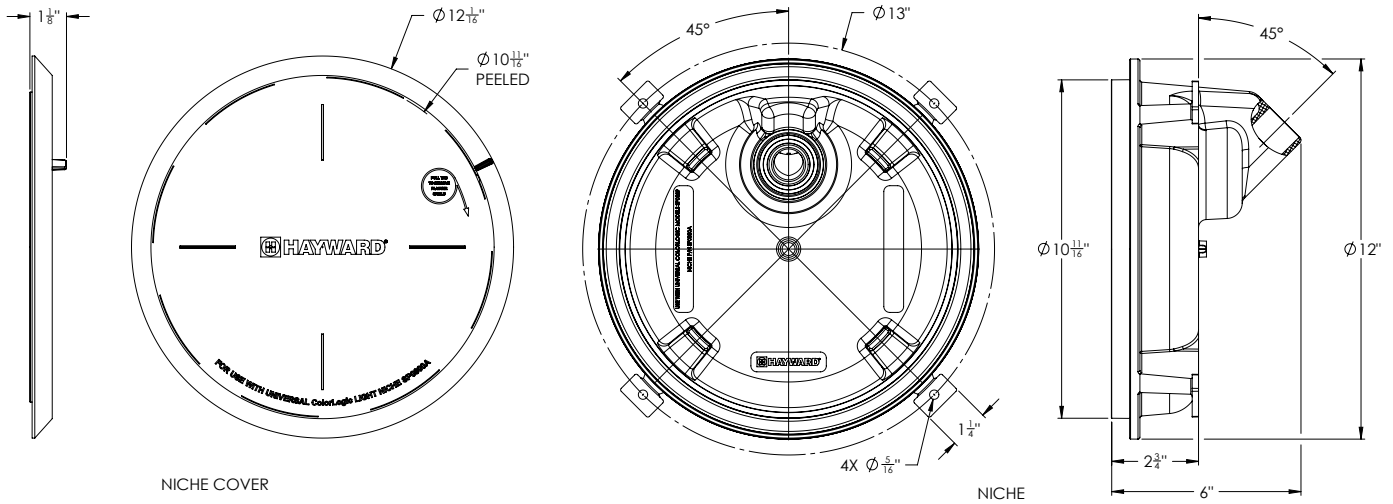
Rotate trim ring until it locks
(Hayward logo should be at 12 o'clock)





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Replacement Parts



ITEM	PART NUMBER	DESCRIPTION	QTY
1	SPX0800CSKIT	Kit includes Cord Seals, Compression Nut and Bearing Plate	1
2	SPX0800J	Niche Shield	1
3	SPX0800LPAK2	Latch for Shallow Niche	1



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⚠ WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

⚠ WARNING – Suction Entrapment Hazard.



Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:



Hair Entrapment- Hair can become entangled in suction outlet cover.



Limb Entrapment- A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

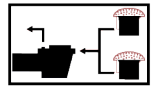


Body Suction Entrapment- A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration/ Disembowelment - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment.

Mechanical Entrapment- There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ WARNING - To Reduce the risk of Entrapment Hazards:



- o When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- o Dual suction fittings shall be placed in such locations and distances to avoid “dual blockage” by a user.
- o Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- o The maximum system flow rate shall not exceed the flow rating of as listed on Table 1.
- o Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- o Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- o In addition two or more suction outlets per pump installed in accordance with latest ASME, APSP Standards and CPSC guidelines, follow all National, State, and Local codes applicable.
- o Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

⚠ WARNING – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.

⚠ CAUTION – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children. To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.



⚠ WARNING – Hazardous Pressure. Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.



⚠ WARNING – Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, filters manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body. **Never operate or test the circulation system at more than 50 PSI.**



⚠ WARNING – Risk of Electric Shock. All electrical wiring **MUST** be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do **NOT** use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment. To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment. Do **NOT** ground to a gas supply line.

⚠ WARNING – Risk of Electric Shock Failure to ground all electrical equipment can cause serious or fatal electrical shock hazard. Electrical ground all electrical equipment before connecting to electrical power supply.

⚠ WARNING – Risk of Electric Shock Failure to bond all electrical equipment to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) [No. 6 AWG (13.3 mm²) for Canada] solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub.

IMPORTANT - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

⚠ WARNING – Risk of Electric Shock . The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.

⚠ CAUTION – HAYWARD® pumps are intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

SAVE THESE INSTRUCTIONS



HAYWARD®

Hayward® Pool Products Limited Warranty

To original purchasers of this equipment, Hayward Pool Products, Inc. warrants its Universal ColorLogic® and CrystaLogic™ pool and spa lights, niches, pool light transformers, and couplers to be free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase, when used in single family residential applications.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care or any Acts of God. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option, within 90 days of the receipt of defective product, barring unforeseen delays, without charge.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center please visit us at www.hayward.com.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its' pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.



HAYWARD®

Product Registration

(Retain For Your Records)

DATE OF INSTALLATION _____

Retain this Warranty Certificate (upper portion) in a safe and convenient location for you records.



DETACH HERE: Fill out bottom portion completely and mail within 10 days of purchase/installation or register online.

UNDERWATER LIGHTING FIXTURE HOUSING

Warranty Card Registration

Please Print Clearly:

First Name _____ Last Name _____

Street Address _____

City _____ State _____ Zip _____

Phone Number _____ Purchase Date _____

E-Mail Address _____

Serial Number (may not be applicable)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Model Number _____

Pool Capacity _____ (U.S. Gallons)

☐ Please include me on all e-mail communications regarding Hayward® Equipment or promotions.

Mail to: Hayward Pool Products, 620 Division Street, Elizabeth, NJ 07207

Attn: Warranty Dept

or REGISTER YOUR WARRANTY ON-LINE AT WWW.HAYWARD.COM

Years Pool has been in service

☐ < 1 year ☐ 1-3 ☐ 4-5 ☐ 6-10 ☐ 11-15 ☐ >15

Purchased from _____

☐ Builder ☐ Retailer ☐ Pool Service ☐ Internet/Catalog

Company Name _____

Address _____

Type of Pool:

☐ Concrete/Gunite

☐ New Installation

☐ Replacement

Installation for:

☐ In Ground

☐ Spa

For further information or consumer
technical support, visit our website at
www.hayward.com



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