



HAYWARD®

092644 RevF

ColorLogic® Laminar

Owner's Manual



Contents

Safety Instructions.....	1
Before You Begin.....	3
Installation.....	5
Performance.....	10
Maintenance.....	11
Replacement Parts.....	11
Warranty.....	14

WFL100

Hayward Industries
1415 Vantage Park Dr., Suite 400
Charlotte, NC 28203
Phone (908)-355-7995
www.hayward.com



HAYWARD®

Important Safety Instructions

When using this electrical equipment, basic safety precautions should always be followed, including the following:



READ AND FOLLOW ALL INSTRUCTIONS

▲ 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:

- 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.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the flow rating listed in Table 1.
- Never use pool/spa if suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- 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.
- 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.



▲ 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.



HAYWARD®



▲ 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. Do not purge the system with compressed air. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 psi), high volume blower when air purging the pump, filter, or piping.



▲ 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. 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. 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.



▲ 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. Opening this light can cause shock, burn and severe injury. This light has no user serviceable parts inside. Do not open light.

▲ 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.

NOTICE - This swimming pool product 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).

SAVE THESE INSTRUCTIONS



HAYWARD®

Before You Begin

The Hayward WFL100 ColorLogic® Laminar is designed for use with Hayward Accent Lights and provides lighted water for small fountains and other water effects. The ColorLogic Laminar must be installed as specified by these instructions. Please follow ALL instructions enclosed with this unit. It is recommended to keep the unit in its original packaging until the site is prepared for installation.

Compatibility

The Hayward WFL100 ColorLogic Laminar is compatible with the following Hayward Accent Light models:

- Hayward ColorLogic 320
- Hayward ColorLogic 160
- Hayward ColorLogic 320 Network
- Hayward ColorLogic 160 Network
- Hayward CrystaLogic 320
- Hayward CrystaLogic 160

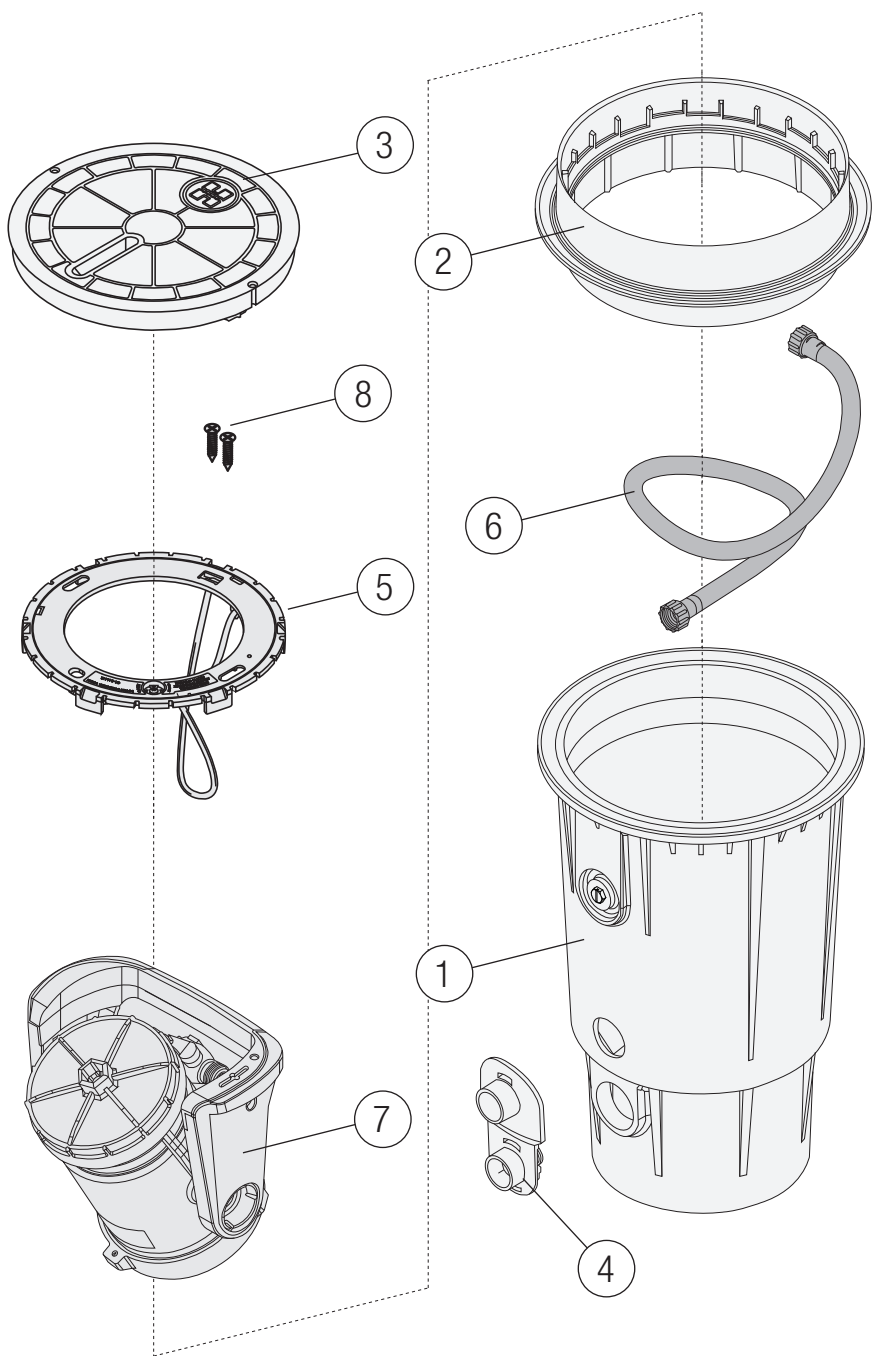
What's Included

Refer to the table below and the image on the following page for a list of all items included with the Hayward WFL100 ColorLogic Laminar.

Item No.	Description	Qty.
1	Body, Deck Niche	1
2	Collar, Deck Niche	1
3	Lid with Label, Deck Niche	1
4	Entry Port, Deck Niche	1
5	Disruptor Assembly, Deck Niche	1
6	Water Inlet Assembly, Laminar	1
7	Laminar Jet	1
8	Screw Pack, Deck Niche	1



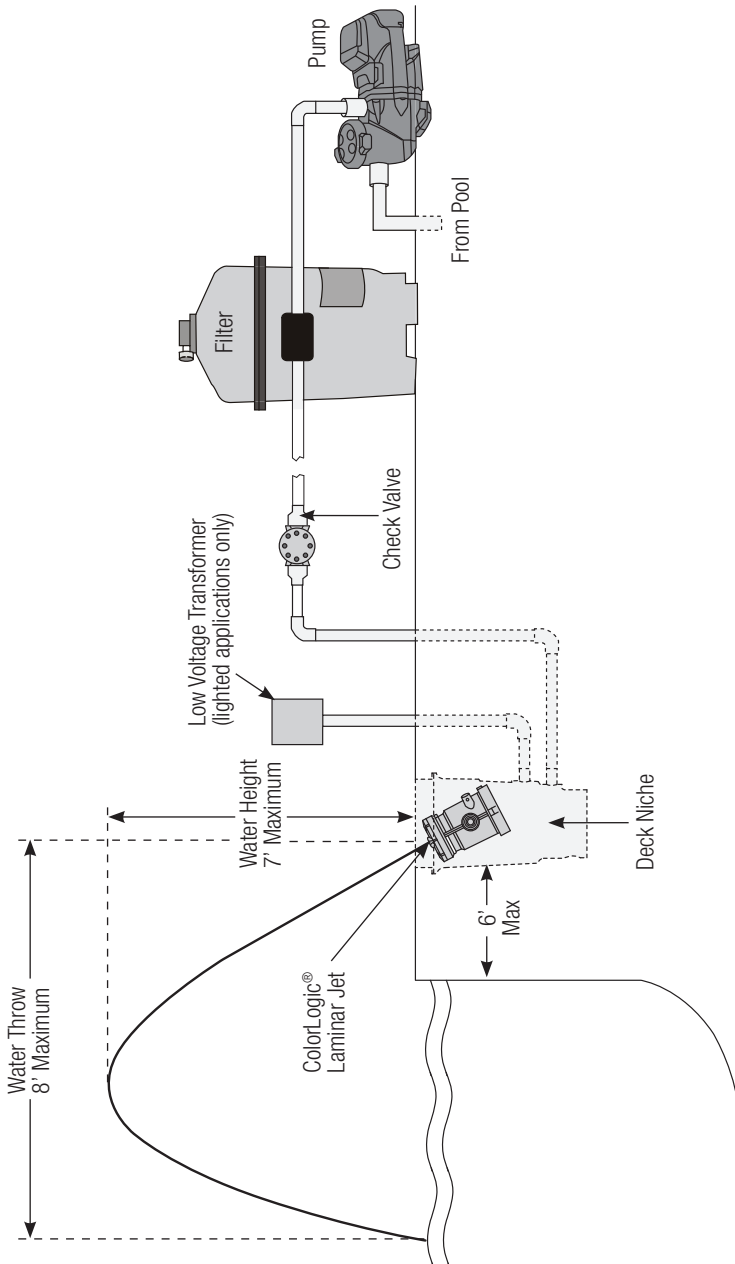
HAYWARD®





HAYWARD®

Installation



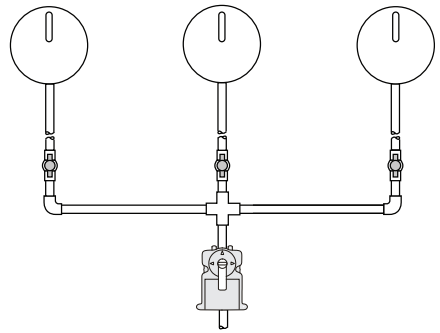
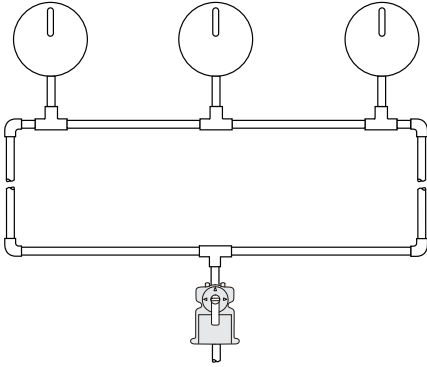


HAYWARD®

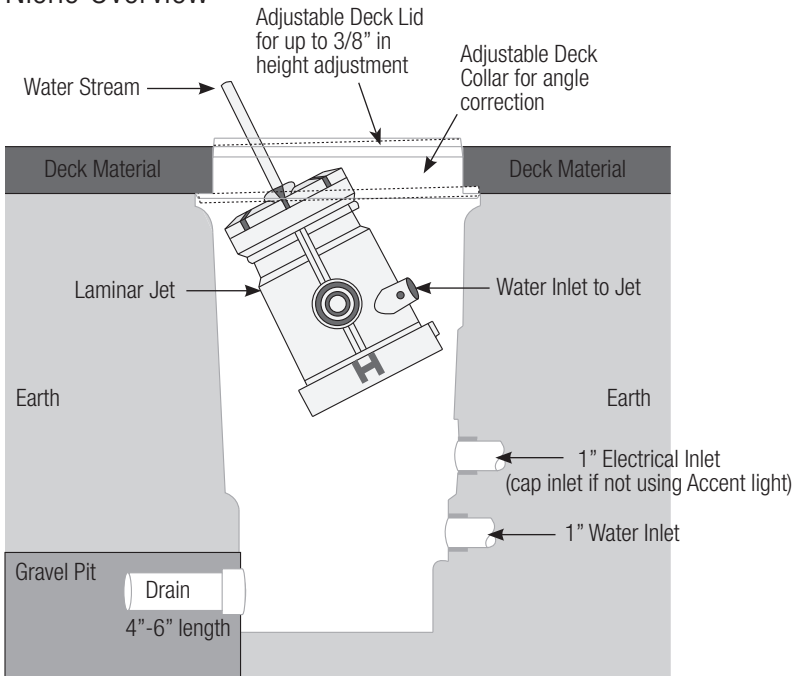
Sub System

NOTE: For finite control, be sure to install an in-line flow control valve to adjust the height and flow of the water. See images below.

Use loop for laminars plumbed at the same distance. Use individual valves for laminars at different distances.



Deck Niche Overview



NOTE: A gravel pit must be available to allow for drainage. Lack of a gravel pit may disturb the permanently installed niche and cause cracks in the pool deck.

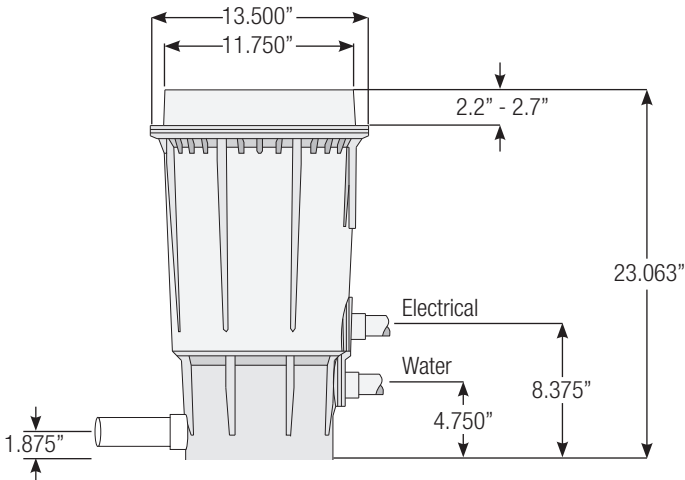


HAYWARD®

Mechanical Installation: Niche Body

Determine the location(s) for the ColorLogic Laminar(s). Rough-in the plumbing pipe and the electrical conduit by plumbing the water line to the desired pumping system and the electrical line to the 12VAC transformer.

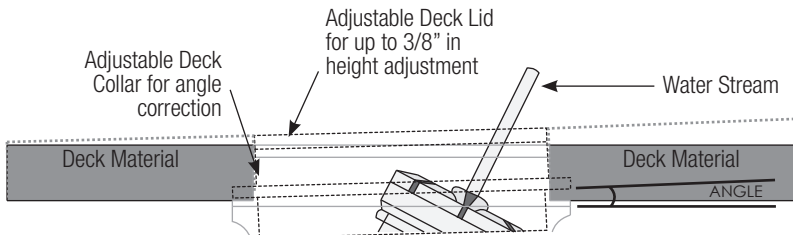
▲CAUTION - DO NOT wire directly to 120V supply. ENSURE A SUFFICIENT GRAVEL PIT IS AVAILABLE ON DRAIN PORT SIDE OF DECK NICHE.



1. Plumb the Sch40 PVC according to dimensions above: 4.75" for water supply, 8.375" for electrical supply, and 1.875" for drain.
2. Solvent bond the deck niche to the water and electrical supply pipes using PVC glue. Install 4"-6" length of PVC drain pipe using a 1-1/2" threaded adapter.
3. Back fill pit up to the collar.

Mechanical Installation: Niche Collar

See below for an overview of the final installation. Adjust the angle of the Laminar collar for finish deck corrections.

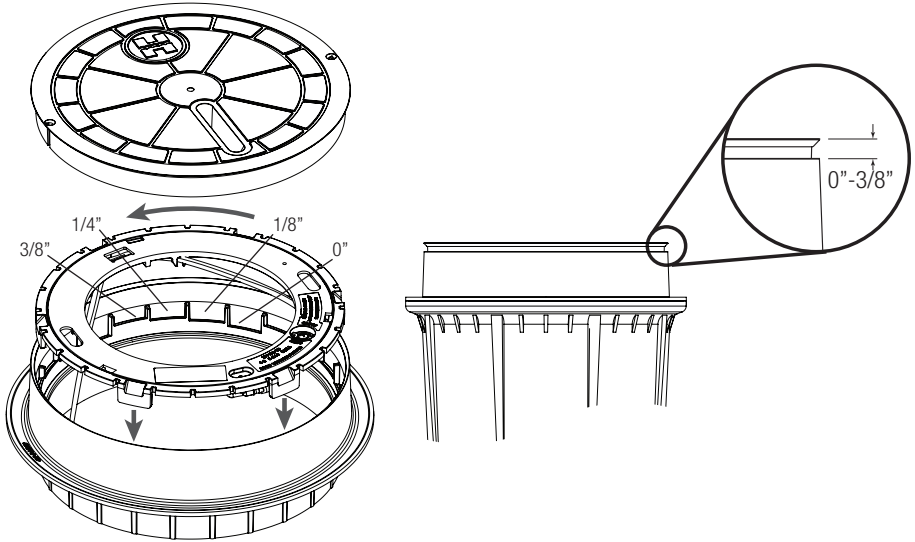


NOTE: If the deck niche is not level, use the deck collar to achieve a leveled finish surface. Example: housing installed at a 2° angle. This step is similar to the installation of a skimmer basket collar.



HAYWARD®

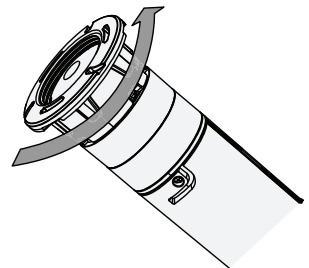
1. Adjust the deck niche collar by lifting the edge that requires additional pitch until it reaches the desired angle. For additional height, rotate the spacer ring to desired height in $1/8"$ increments up to $3/8"$.



2. Apply deck material (stamped concrete, pavers, etc.).

ColorLogic Accent Light Installation

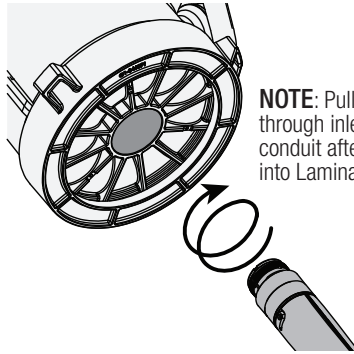
1. Remove lid and disruptor assembly.
2. Remove Laminar jet from the deck niche.
3. Choose the desired light from the list of compatible lights shown below:
 - Hayward ColorLogic 320
 - Hayward ColorLogic 160
 - Hayward ColorLogic 320 Network
 - Hayward ColorLogic 160 Network
 - Hayward CrystaLogic 320
 - Hayward CrystaLogic 160
4. Unscrew the trim ring from the light by twisting in a counter-clockwise direction. Discard the trim ring.





HAYWARD®

5. Thread in the light from the bottom of the Laminar jet until snug.
6. Route the light cord through the electrical inlet and conduit. Refer to the light's installation manual for wiring instructions. Leave 3' of power cord inside the deck niche as a service loop.

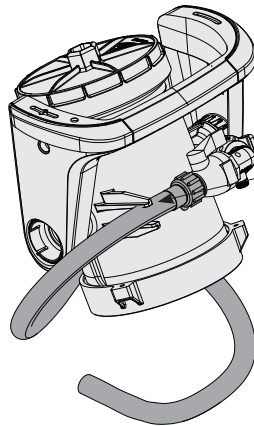


NOTE: Pull light cord through inlet and conduit after installation into Laminar jet.

Mechanical Installation: Laminar Jet

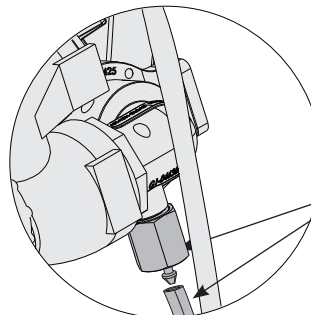
After removing the Laminar jet from the niche, pressure test the water line to no more than 15 psi. Ensure there are no leaks. Unscrew the plug from the hose and flush the water line to remove any foreign material from construction that may be in the system. Store the plug for winterization. Once the lines have been pressure tested and flushed, proceed to install the Laminar jet.

1. Set the Laminar jet carefully on the deck. Thread the hose into the flow control valve and route the hose into the strain relief. Only hand tighten the hose to the valve body. Do not use any tool to tighten the hose further as damage may occur.



Install hose to valve body. Ensure excessive stress is not applied to the valve adaptor during hose installation.

2. Install the clear hose from the disruptor assembly to valve adaptor fitting.

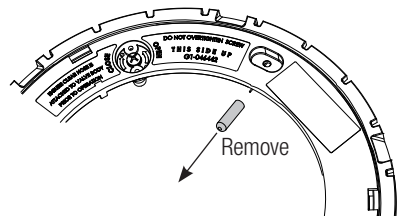


Install clear hose to fitting



HAYWARD®

3. Remove the disruptor needle cap and discard.
4. Insert the Laminar jet into the deck niche. Reinstall the disruptor assembly to the previously roughed-in height.
NOTE: Ensure orientation of disruptor stream intersects with primary stream.



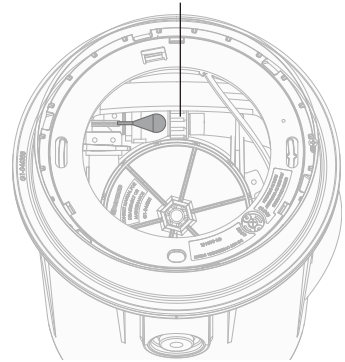
Performance

Water Performance

Use the Laminar jet flow control valve and/or the plumbed in-line flow valve to adjust the water flow and performance of the stream. Set to 6-7 GPM for best performance.

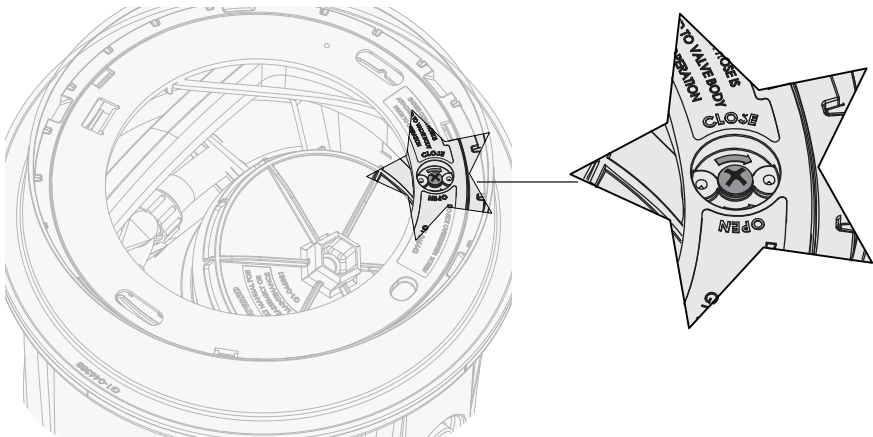
NOTE: Pressurize slowly when the Laminar jet is dry. Abrupt pressure when the jet is dry can dislodge screens. For variable speed pumps, use the lowest speed possible for Laminar stream to reach the body of water.

Flow Control Valve



Light Performance

Adjust disruptor stream by opening or closing valve via the screw located beneath the lid. Increase or decrease the disruptor flow to account for the angle of the Laminar jet and to increase or decrease the light intensity in the stream. Be careful not to over-torque the screw.



Once you've reached the desired illumination, reinstall the lid by aligning the tabs to the disruptor plate and use screws to lock the lid in place.



HAYWARD®

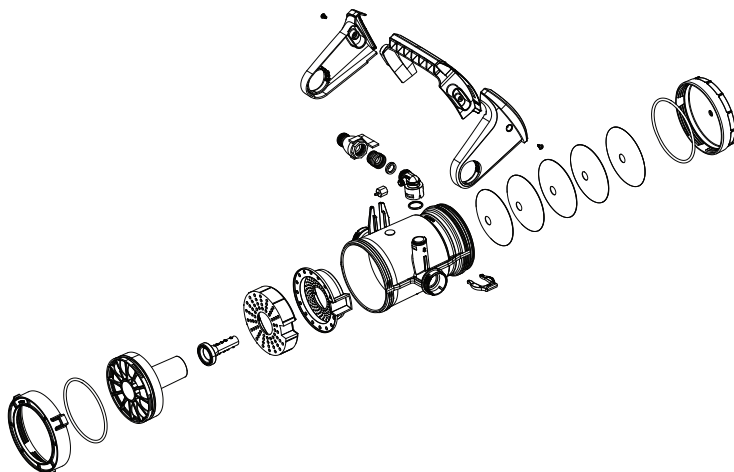
Maintenance

Winterization

1. Close water supply valves during winterization to prevent water from entering the Laminar jet.
2. Use compressed air or another source to remove water from lines.
3. Unscrew hose from the flow control valve. Install the cap that was removed during installation.
4. Disconnect valve assembly to remove any residual water from the entry port and top seal plate.

Cleaning the Laminar Jet

1. Use **ONLY** a 1-1/4" 6-point socket bit to remove the Laminar jet cap to access the screens. Remove the union on the bottom to access the diffusers.
2. Remove any debris that may have collected during operation. Refer to the diagram below for disassembly and maintenance. **NOTE:** O-rings should be re-lubricated as needed.

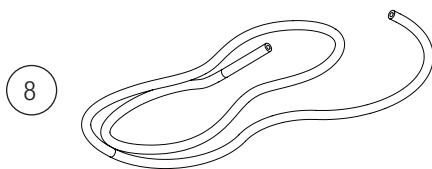
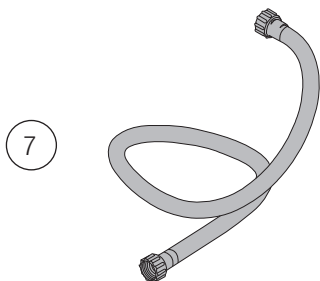
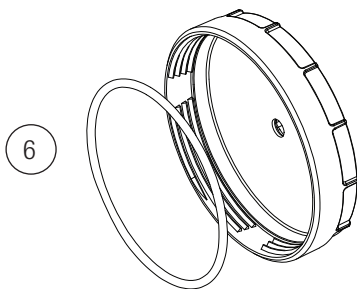
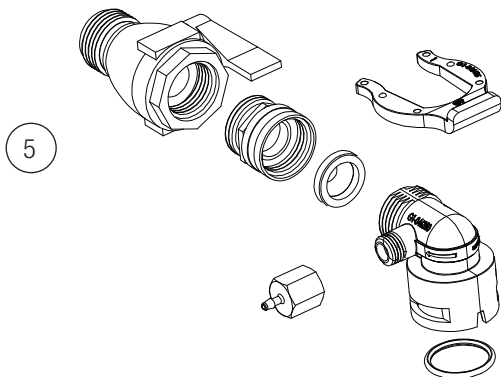
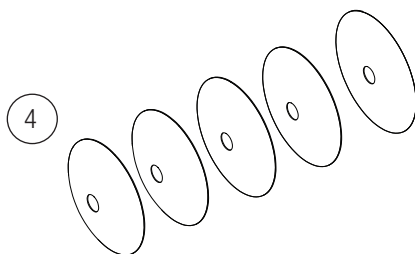
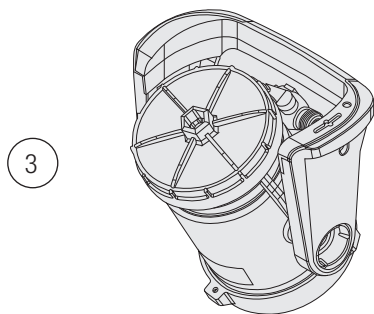
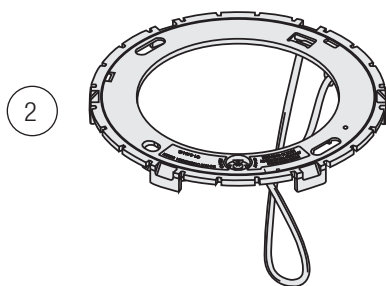
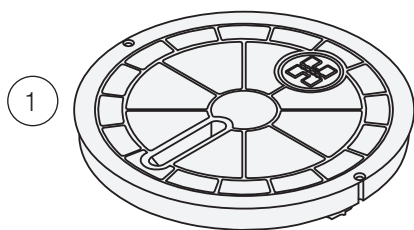


Replacement Parts

Item	Part Number	Description	Qty
1	GLXWFLIDDKGRY	Dark Grey Lid, Deck Niche	1
2	GLXWFLDISRPT	Disruptor Assembly, Deck Niche	1
3	GLXWFLJET	Laminar Jet	1
4	GLXWFLSCRNPK5	Screen, 5 pack	1
5	GLXWFLVLVADPT	Valve Adapter Kit	1
6	GLXWFLTSPLT	Top Seal Plate with O-Ring	1
7	GLXWFLHOSE	Water Inlet Assembly	1
8	GLXWFLTUBE	Tubing Assembly: 4' Tygon Tube and additional hardware (not shown)	1



HAYWARD®



THIS PAGE IS INTENTIONALLY LEFT BLANK



HAYWARD®

HAYWARD® Pool Products Limited Warranty

Hayward Pool Products, Inc., warrants the components of this product to be free from defects in materials and workmanship during the warranty period. Please visit <https://hayward.com/support/resources/warranty> for product warranty details.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care, Acts of God or as specified in installation and operations manual. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option.

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 <https://hayward.com/dealerlocator>.

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 Industries, 1415 Vantage Park Dr., Suite 400, Charlotte, NC 28203

***Supersedes all previous publications**

Register your product at <https://hayward.com/support/resources/warranty/product-registration>

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



Hayward is a registered trademark and ColorLogic® is a
trademark of Hayward Industries, Inc. © 2025 Hayward Industries, Inc.

All other trademarks not owned by Hayward are the property of their respective owners.
Hayward is not in any way affiliated with or endorsed by those third parties.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS