



# ColorLogic® Bubbler

## Owner's Manual



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WFB100

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## 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** – **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 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).



**⚠ 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.

**⚠ 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.



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- 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 of as listed on Table 1.
- Never use Pool or Spa if any 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. 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. 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.



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**⚠ 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 mm<sup>2</sup>) [No. 6 AWG (13.3 mm<sup>2</sup>) 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



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## Before You Begin

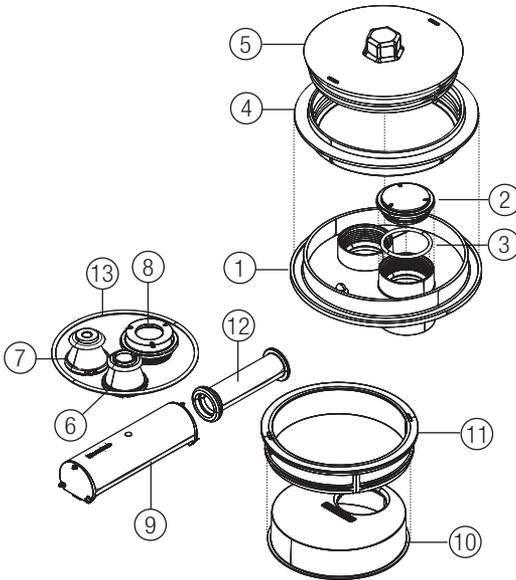
The Hayward WFB100 ColorLogic® Bubbler is designed to provide lighted water for small fountains and other water effects using Hayward Accent Lights. The ColorLogic Bubbler must be installed as specified by these instructions. Please follow ALL instructions enclosed with this unit. It is recommended to keep the unit in its original packaging until the site is prepared for installation.

### Compatibility

The Hayward WFB100 ColorLogic Bubbler is compatible with the following Hayward Accent Light models:

Light Model	SKU
ColorLogic 320 Accent	LACUS11xxx
CrystaLogic 320 Accent	LAWUS11xxx

### What's Included



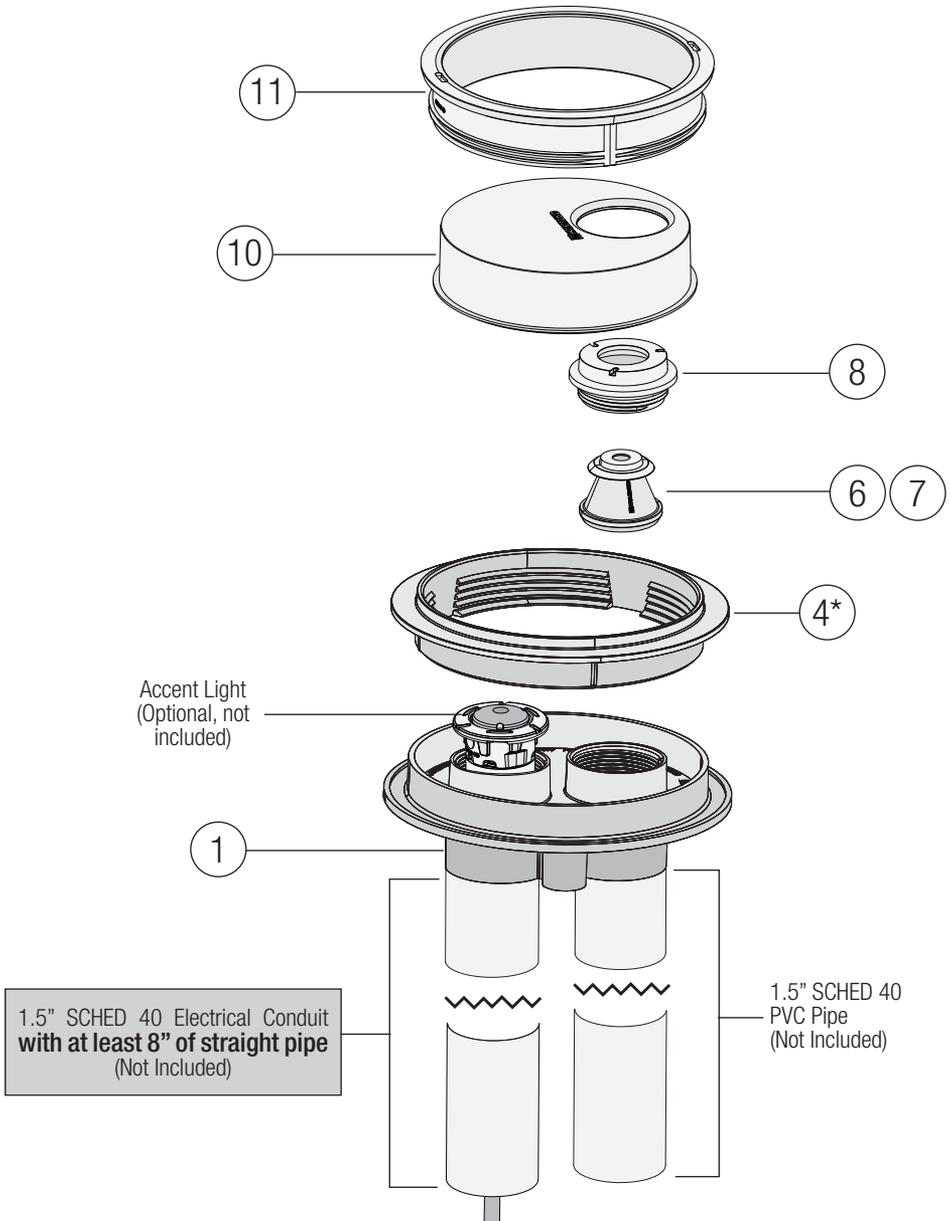
Item	Description
1	Housing Assembly
2	Nozzle Thread Plug
3	O-Ring
4	Plaster Ring
5	Plaster Shield
6*^	Bubbler Nozzle 3/4"
7*^	Bubbler Nozzle 3/8"
8*^	Bubbler Nozzle Nut
9*	Bubbler Tool
10*	Lens
11*^	Retaining Ring
12*	Bubbler Extender Nozzle
13*	Plaster Shield O-Ring (For winterization only)

\*Comes in plastic bag  
^Alternate colors available



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## Final Assembly - Exploded View



*\*Plaster ring only adjustable during installation.*

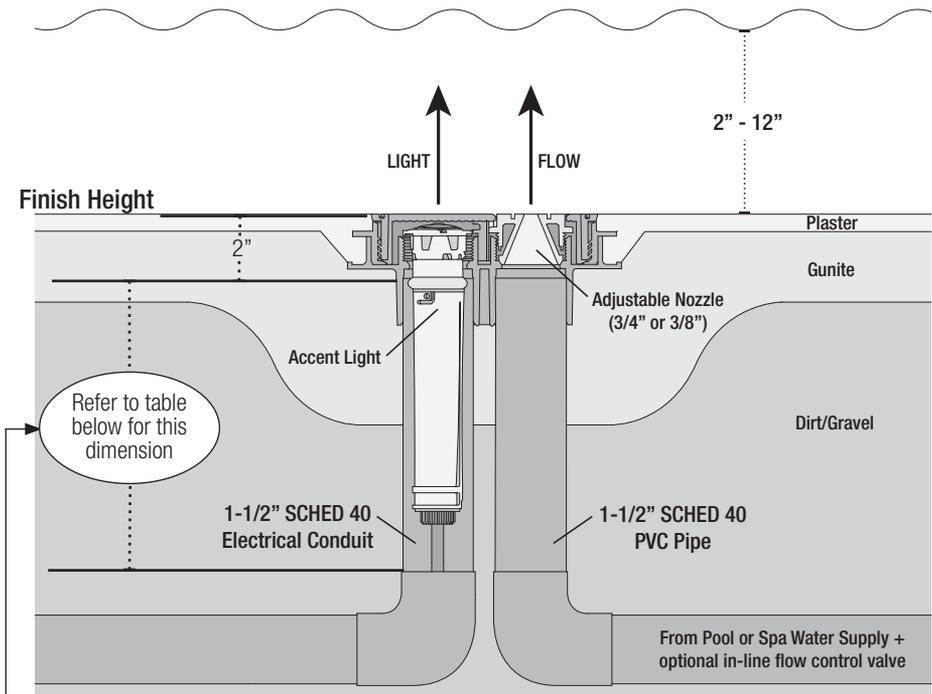


## Installation

### System Overview

Cut the two pieces of 1-1/2" pipe 2" - 2.125" beneath surface level to ensure proper height for final installation.

- If installing with Accent Light: Refer to diagram below for minimum clearance height.
- If not installing with light: Leave at least 8" for potential upgrades.



Light	Clearance Requirements
No luminaire	Not Applicable
ColorLogic 320 standalone	8"
CrystaLogic 320 standalone	8"



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**IMPORTANT** – For the best combination of water and light, mount the ColorLogic Bubbler no more than 12" [30.5 cm] below the water surface.

## Plume Height at Given Water Depths (Do not exceed 45 GPM):

3/4" Nozzle Orifice					
Depth	4"	6"	8"	10"	12"
15 GPM	11	8	5	4.5	3.5
20 GPM	15	10	7	6	5
25 GPM	24	16	11	9	8
30 GPM	35	21	17	12	10.5
35 GPM	45	30	20.5	15	13
40 GPM	-	37.5	27	20	15

3/8" Nozzle Orifice					
Depth	4"	6"	8"	10"	12"
10 GPM	12	7	7	5	4
15 GPM	30	18	12	10	6
20 GPM	55	28	17	14	11

## Plumbing

**For Electrical Port:** 1-1/2" electrical conduit and long sweep elbows only! Do NOT use standard elbows or 1/2" conduit.

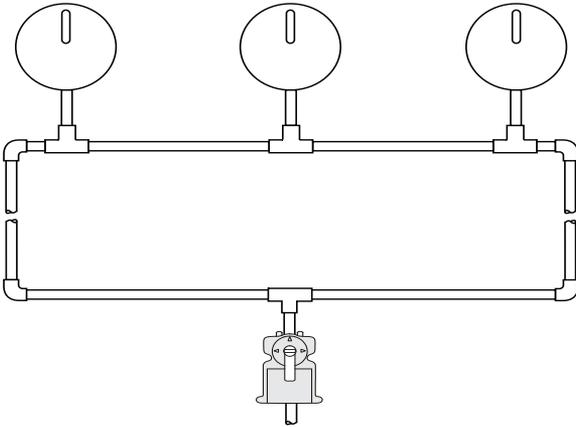
**AT LEAST 8" [20.3 CM] STRAIGHT PIPE FOR LIGHT CLEARANCE.**

**If finite control is desired:** Install an in-line flow control valve to adjust the height and flow of the water stream from the ColorLogic Bubbler.



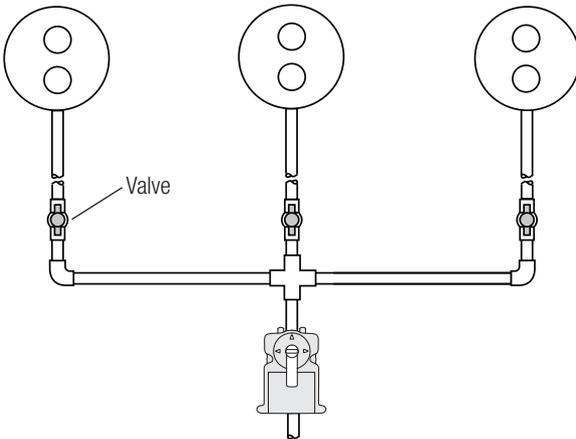
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## Looped Plumbing Scheme (Bubblers installed at same depth)



From Pool or Spa Water Supply

## Separate Plumbing Scheme (Bubblers installed at different depths)



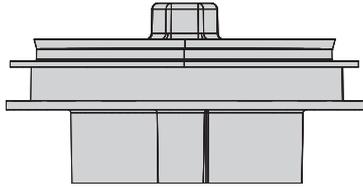
From Pool or Spa Water Supply



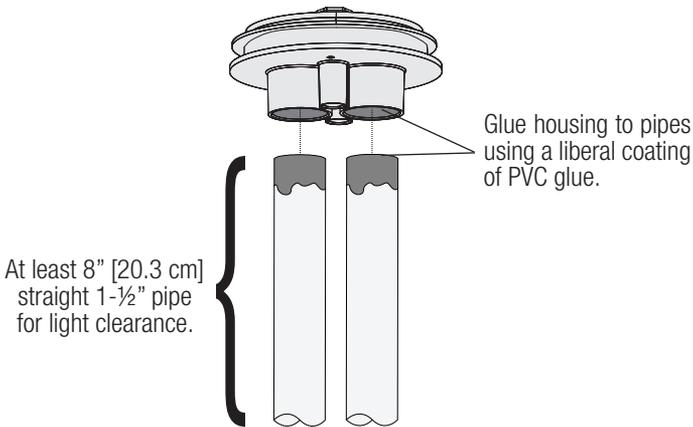
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## Bubbler Installation

- 1** Remove the housing assembly from the box. **DO NOT DISASSEMBLE.**



- 2** Glue the housing assembly to the two pipes. Either port can be used for electrical or plumbing.



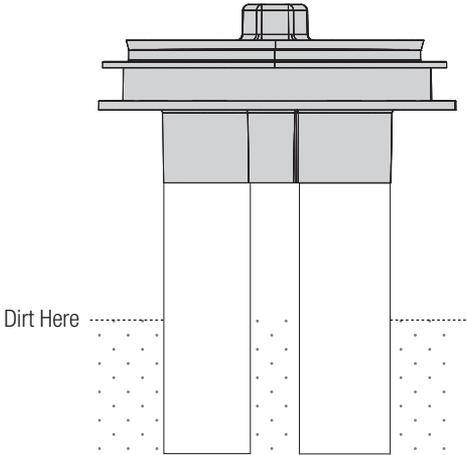
**IMPORTANT – Verify the housing is fully installed to ensure flush installation with the final surface level.**

- 3** **IMPORTANT – Perform a pressure test BEFORE applying gunite.**

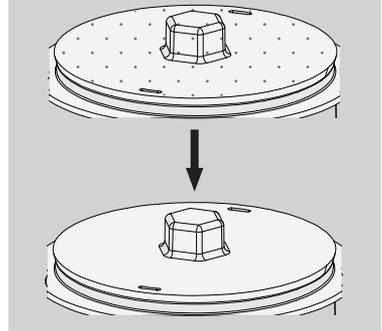


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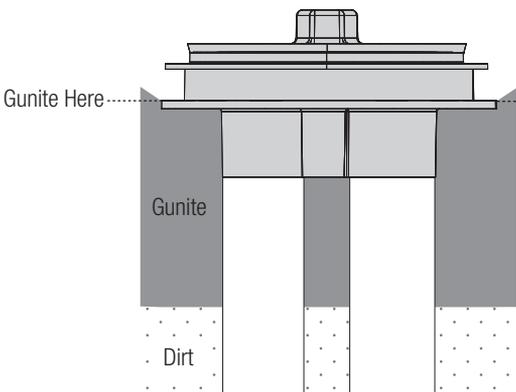
- 4** Backfill the pit beneath the housing with dirt and/or gravel to about halfway up the pipes (See System Overview on page 6).



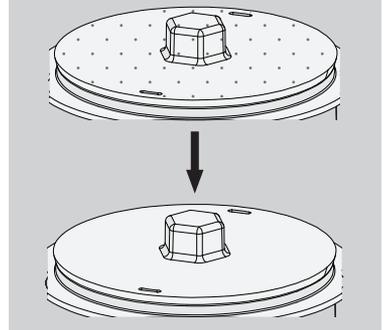
**IMPORTANT**  
Clean dirt off plaster shield.



- 5** Apply gunite and fill behind the housing up to the level shown below (Also see System Overview on page 6).



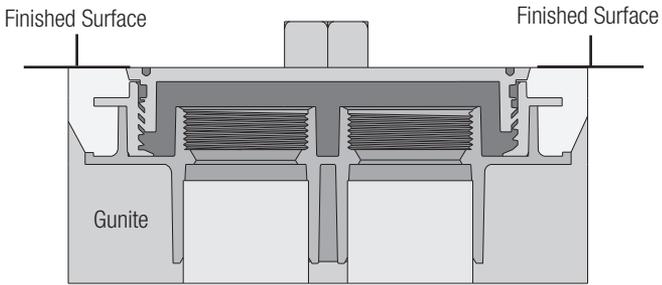
**IMPORTANT**  
Clean gunite off plaster shield.



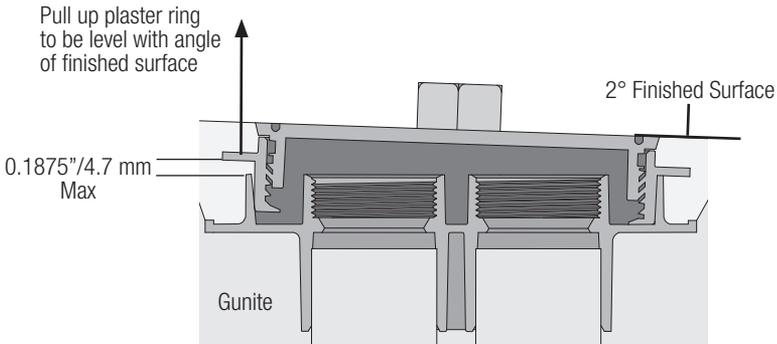


- 6** After the gunite has cured, pull up on the edge of the plaster ring to achieve a level finished surface (if needed).

*Flush Housing Installation*



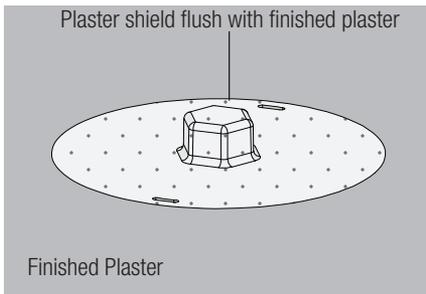
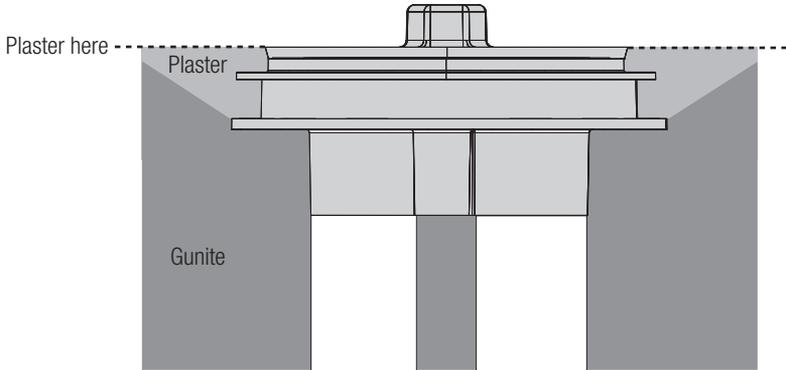
*Example: Finished surface at a 2° angle*



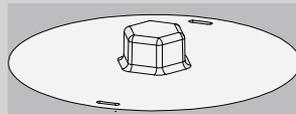
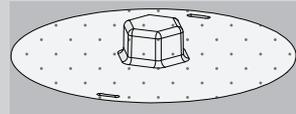


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- 7** Apply and smooth out plaster around the edge of the plaster shield as seen below. The surface of the plaster shield should be flush with the finished surface level.



**IMPORTANT**  
Clean plaster off plaster shield.

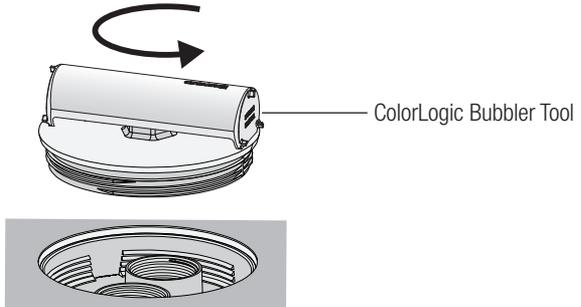




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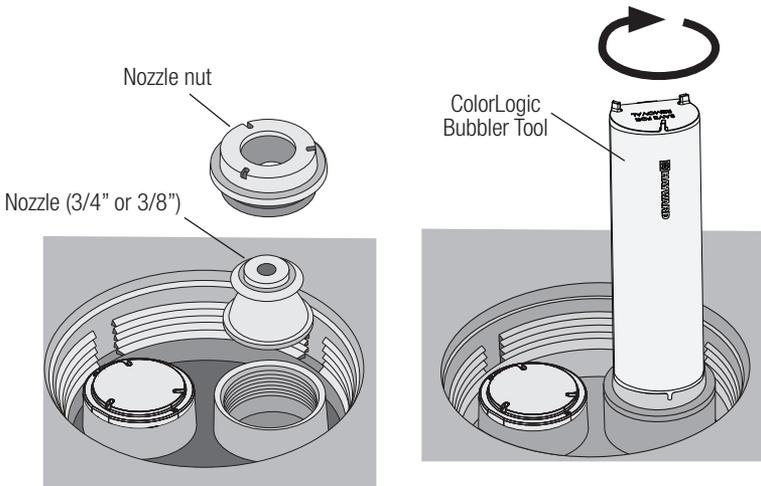
**8** Once the plaster is cured, remove the plaster shield using the ColorLogic Bubbler Tool. Save the plaster shield for winterization, if needed.

- Verify the slots on the plaster shield are free of debris.
- You can also use a 1- $\frac{1}{4}$ " wrench to remove the plaster shield.
- Note that the plaster shield may require an initial tap to loosen.



**9** Flush the water line to remove any foreign material from construction.

**10** Install the nozzle ( $\frac{3}{4}$ " or  $\frac{3}{8}$ " ) and nozzle nut in the water port and fasten with the ColorLogic Bubbler Tool.





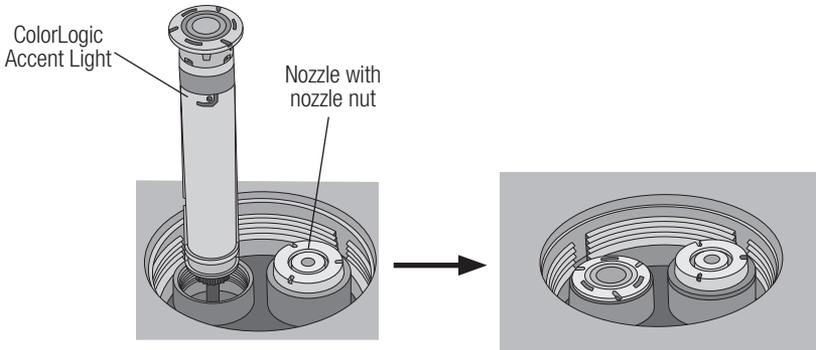
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**11**

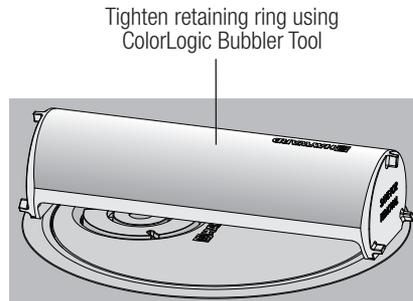
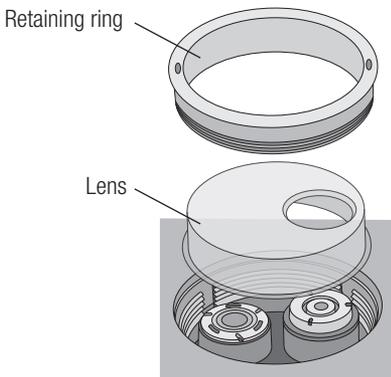
If installing an Accent Light (optional):

- i. Remove the threaded plug with O-Ring if needed.
- ii. Install the Accent Light into the lighting port by feeding the cord through the electrical conduit.

**IMPORTANT** – Wire as instructed in the Accent Light manual. **DO NOT OVERTIGHTEN.**

**12**

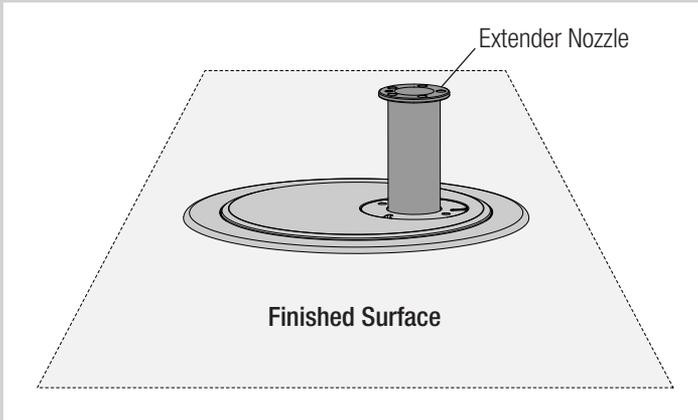
Install the lens with the open hole over the nozzle. Thread on the retaining ring using the ColorLogic Bubbler Tool.





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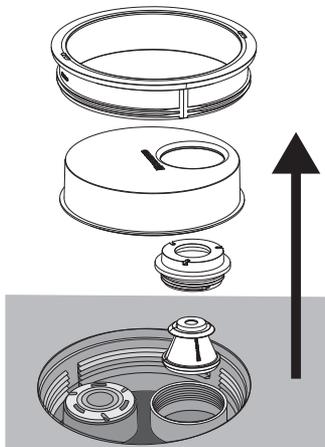
**IMPORTANT** – Use the Extender Nozzle to mitigate the effect of vortexing or swirling during Bubbler operation. Use the ColorLogic Bubbler Tool to remove the nozzle nut and nozzle. Insert the Extender Nozzle as shown below and re-install the nozzle nut.



## Winterization

If needed, a replacement winterization kit (GLXBWNTRKIT) is available for order.

- 1** Remove the retaining ring, lens, nozzle nut, and nozzle. Store them in a safe place until next pool season.

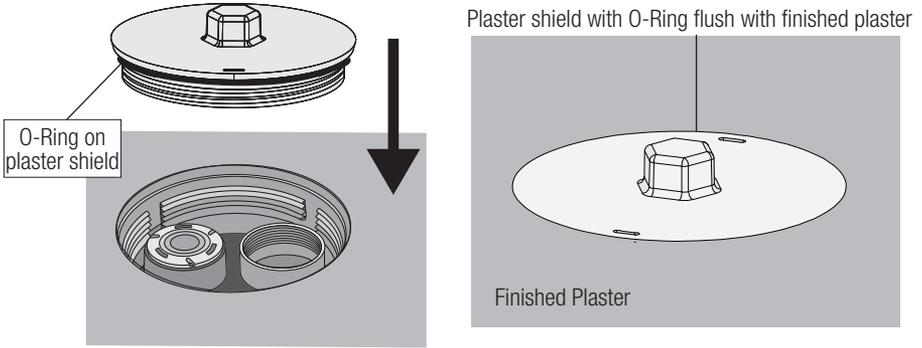




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**2** Vacuum or soak up all residual pool water from the housing assembly.

**3** Secure the winterization O-Ring and plaster shield.



## Spare Parts

Item	Part Number	Description
1	GLXBWNRKIT	Winterization Kit
2	GLXBKTGR	Replacement Nozzle Kit - Gray
3	GLXBKTDG	Replacement Nozzle Kit - Dark Gray
4	GLXBKTWT	Replacement Nozzle Kit - White
5	GLXBLNGR	Replacement Lens Kit - Gray
6	GLXBLNDG	Replacement Lens Kit - Dark Gray
7	GLXBLNWT	Replacement Lens Kit - White
8	GLXBKTNOZ	Extender Nozzle

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## **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  
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