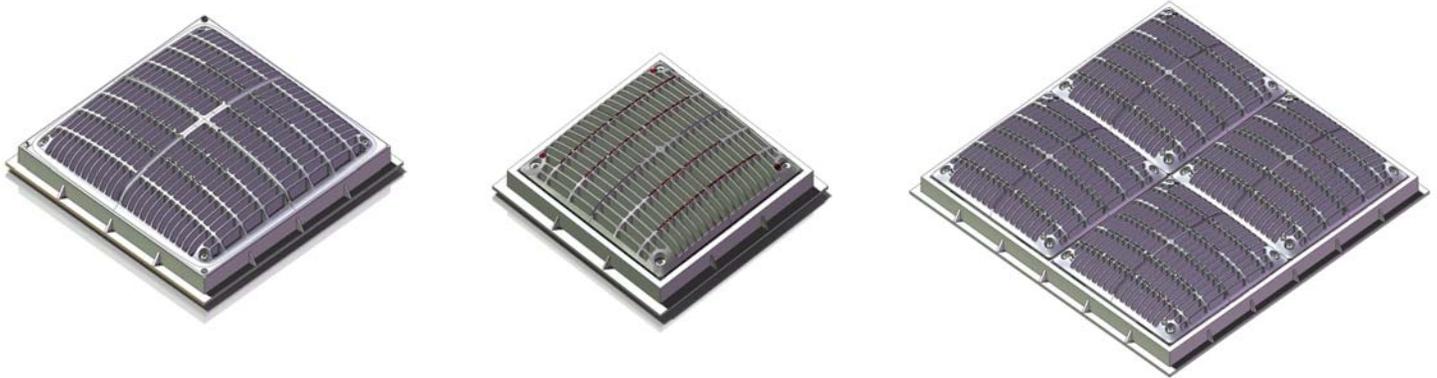


OWNER'S MANUAL
INSTALLATION, OPERATION, & PARTS
"Low Velocity"
DUAL SUBMERGED SUCTION OUTLET SET
[Commonly called main drains]



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.



▲ - **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.

IMPORTANT SAFETY INSTRUCTIONS

Hayward Pool Products
One 620 Division Street, Elizabeth, NJ 07207
Phone: 908-351-5400
www.haywardnet.com

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 or death due to the following entrapment hazards:



Hair Entrapment- Hair becomes knotted or snagged in an outlet cover.



Limb Entrapment- A limb sucked or inserted into an opening of a circulation outlet with a broken or missing cover in the pool resulting in a mechanical bind or swelling



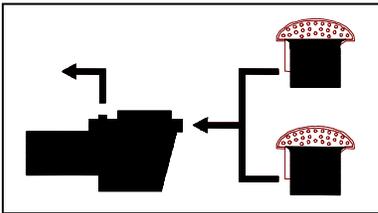
Body Suction Entrapment- Suction applied to a large portion of the body or limbs resulting in an entrapment.

Evisceration/ Disembowelment Entrapment- Suction applied directly to the intestines through an unprotected sump or suction outlet with a missing or broken cover.



Mechanical Entrapment- Potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of an outlet or cover.

To Reduce the risk of Entrapment Hazards:

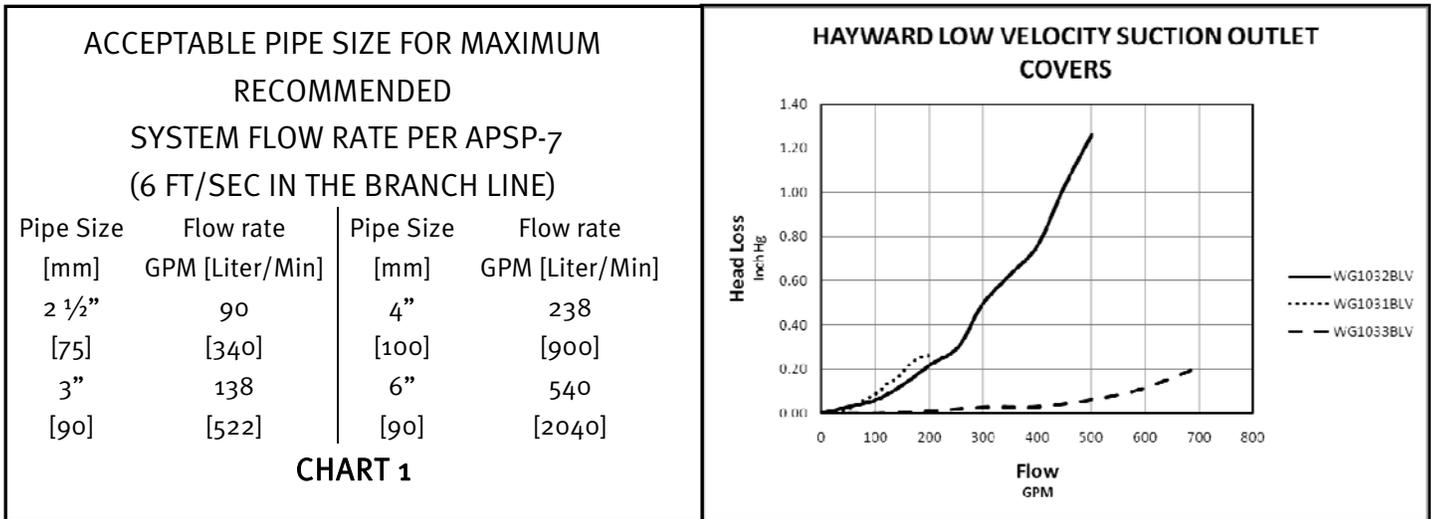


- A minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [.91 meter] apart, as measured from suction pipe center to suction pipe center. (See Diagram 1. If suction outlets are to be located closer than three feet (3') [.91 meter] apart, they shall be located in different planes (i.e., one on the bottom, and one on the vertical wall, or one on each of two separate vertical walls.) (See Diagram 2)

- 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 any listed (per ANSI/APSP 16-2011, ASME A112.19.8-2007, APSP-7) suction outlet cover installed.
- Keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material.
- Never use a Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Prior to each use of the swimming pool and/or spa, observe and replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- Remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets.
- Two or more suction outlets per pump should be installed in accordance with latest APSP Standards and CPSC guidelines. Follow all National, State, and Local codes applicable.
- Multiple layers of protection are available including installation of a vent pipe system, a gravity flow system, or a vacuum release system.
- Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every seven years or if found to be damaged, broken, cracked, missing, or not securely attached.
- Do not exceed maximum flow rate stated on suction fitting.
- Only replace a pump with one with a similar flow curve, avoid a pump with a higher horsepower rating.
- To reduce the risk of body entrapment, installation of the field fabricated sumps must be such that the top of the mounted WG1031BLV2 or WG1033BLV2 cover is a minimum of 1 1/2” above; and the top of the mounted WG1032BLV2 cover is a minimum of 1 13/16” above, the finished pool surface over an area larger than 40” on a diagonal.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

RECOMMENDED SYSTEM SPECIFICATIONS:



WG1031BLV2 Suction Outlet Cover (Replacement sold as a WG1031BLV2) is rated for 108 GPM Wall Mounted or 190 GPM Floor Mounted for single or multiple suction outlet use. (9" x 9")

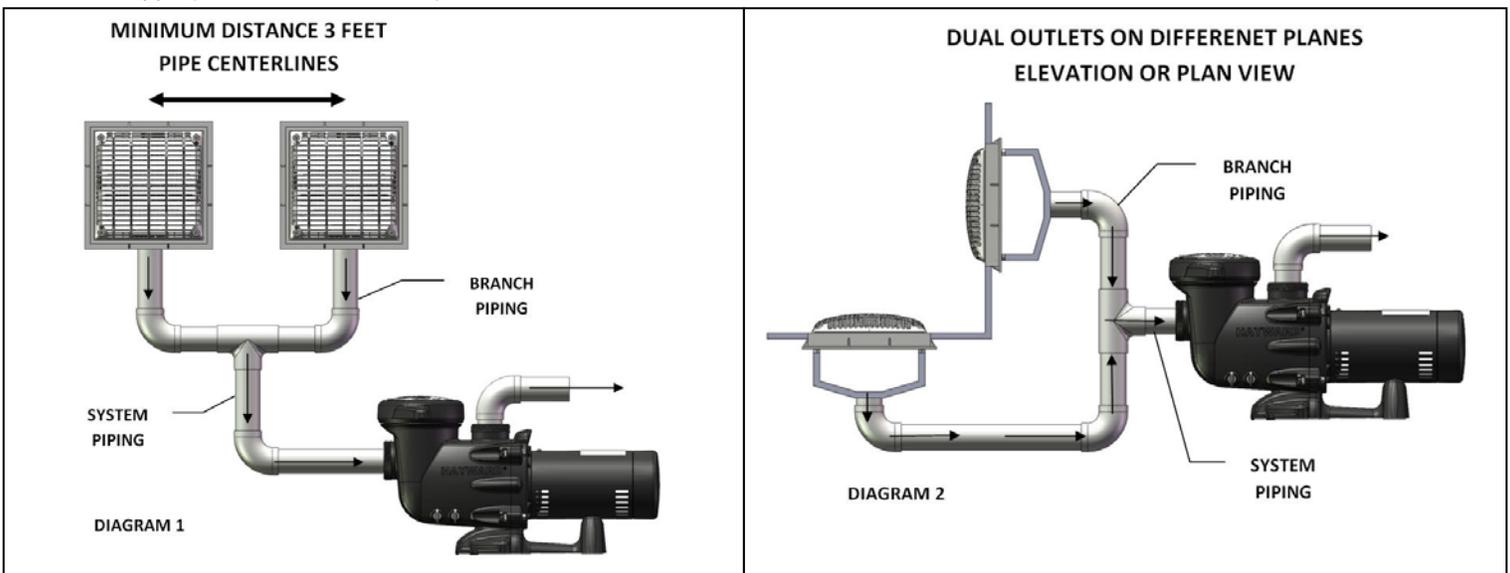
WG1032BLV2 Suction Outlet Cover (Replacement sold as a WG1032BLV2) is rated for 260 GPM Wall Mounted or 392 GPM Floor Mounted for single or multiple suction outlet use. (12" x 12")

WG1033BLV2 Suction Outlet Cover (Replacement sold as a WG1033BLV2) is rated for 520 GPM Wall Mounted or 520 GPM Floor Mounted for single or multiple suction outlet use (This is a package of four 9" x 9" covers and frames) (18" x 18")

In the event of one suction outlet being blocked, the remaining suction outlets serving that system shall have a flow rating capable of the full flow of the pump(s) for the specific suction system.

Example: In the System shown in **Diagram 1**, two (2) 12" x 12" suction outlet covers are selected and mounted on the floor. These covers are individually rated for 392 GPM. For a desired flow rate through the pump of 120 GPM, a minimum pipe size from the **Chart 1** is selected at 3". At the desired flow of 120 GPM one cover could be partially blocked and the other suction outlet flow would be below the rated 392 GPM of the "Floor" mounted suction outlet cover. Since there are two outlets flowing in normal operation, and the allowable velocity in the interconnecting piping is only 3ft/sec, the same pipe size is required in the interconnecting piping.

Example: In the System shown in **Diagram 2**, one (1) 12" x 12" suction outlet cover mounted in the floor, rated at 392 GPM, and one (1) 12" x 12" suction outlet cover mounted on the wall, rated at 260 GPM. For a desired flow rate through the pump of 200 GPM, a minimum pipe size from the **Chart 1** is selected at 4". At the desired flow of 200 GPM either cover could be totally blocked and the other suction outlet flow would be below the rated 260 GPM of the wall mounted suction outlet cover. Note: Flow may be limited by entrapping force in dual suction systems.

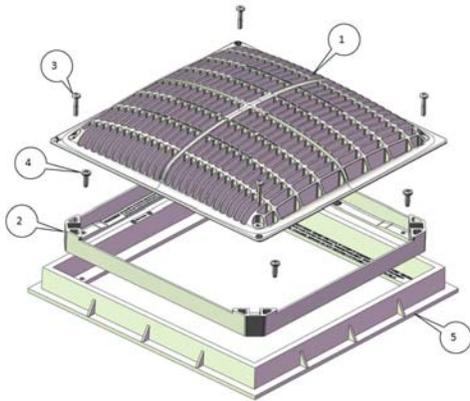


USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

INSTALLATION INSTRUCTIONS: - Use a #2 Philips head Screwdriver.

NOTICE: When installing WG1031LV2PAK2, WG1032LV2PAK2 or WG1033LV2PAK2 refer to ANSI/APSP 16-2011 for the proper instructions on how to construct the field-fabricated sump. See Illustration on Page 7

Parts List



WG1032LV2PAK2 12" x 12" or WG1031LV2PAK2 9" x 9" Outer Frame and Cover Assembly Dual Pack

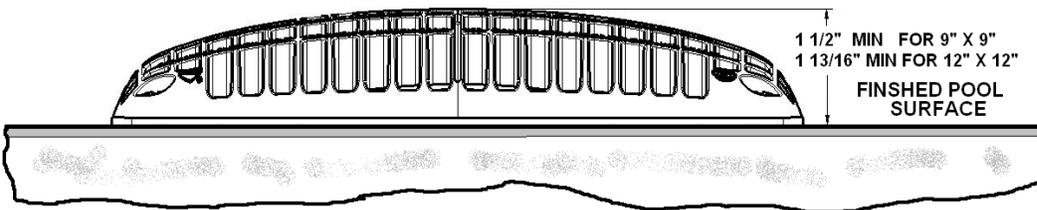
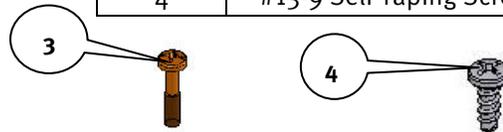
Item	Description	Qty
1	Cover	2
2	Inner Frame	2 (Installed)
3	Machine Screw #10-24	8
4	#13-9 Self Taping Screw	8 (Installed)
5	Outer Frame	2

WX1032BLV2 12" x 12"

WX1031BLV2 9" X 9"

Replacement Cover and Inner Frame

Item	Description	Qty
1	Cover	1
2	Inner Frame	1
3	Machine Screw #10-24	4
4	#13-9 Self Taping Screw	4



▲ Warning – Suction Entrapment Hazard.

Suction in suction outlets and/or suction outlet covers which are installed in a small area and/or below the surrounding surface can cause severe injury or death due to body entrapment hazard.

▪To reduce the risk of body entrapment, installation of the field fabricated sumps must be such that the top of the mounted cover is a minimum of 1 1/2" for the 9" x 9" and 1 13/16" for the 12" x 12" above the finished pool surface over an area larger than 40" on a diagonal.

When replacing a SP1031B grate with a replacement cover WX1031BLV2, in an existing SP1031A Outer Frame (One that does not have inner frame installed), the grate is removed and discarded.

When replacing a SP1032B grate with a replacement cover WX1032BLV2, in an existing SP1032A Outer Frame (One that does not have inner frame installed), the grate is removed and discarded.

Locate the Inner Frame (Item 2) and using four (4) screw #13-9 x 5/8" (Item 4) **Secure** Inner Frame to Outer Frame. Should you not be able to secure the Inner Frame to the Outer Frame using the existing holes in the Outer Frame; drill four .149" (#25) diameter holes in the Outer Frame, using the holes in the Inner Frame to locate the holes to drill in the Outer Frame. Using four (4) screw #13-9 x 5/8" (Item 4) **Secure** Inner Frame to Outer Frame utilizing the four (4) new holes.

Locate the Cover (Item 1) and using four (4) #10-24 x 15/16" long screws (Item 3) Secure to the Inner Frame.

When replacing a WG1031B, aWG1031BLV, a WG1032B or a WG1032BLV cover, **Do NOT** remove the Inner Frame from the Square Frame unless it is damaged. The four screws in the corners of the cover are retained in the cover. New screws should be used whenever the cover is replaced.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS INCLUDING SCREWS.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

INSTALLATION INSTRUCTIONS: - Use a #2 Philips head Screwdriver.

NOTICE: When installing WG1031LV2PAK2, WG1032LV2PAK2 or WG1033LV2PAK2 refer to ANSI/APSP 16-2011 for the proper instructions on how to construct the field-fabricated sump. See Illustration on Page 7

• **PARTS LISTS**

WG1033LV2PAK2 18" x 18"

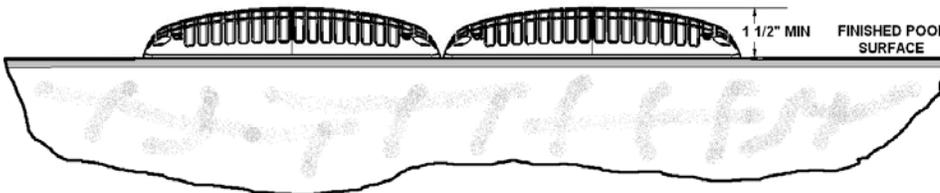
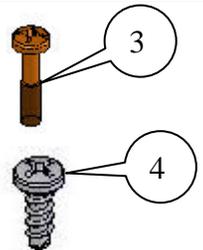
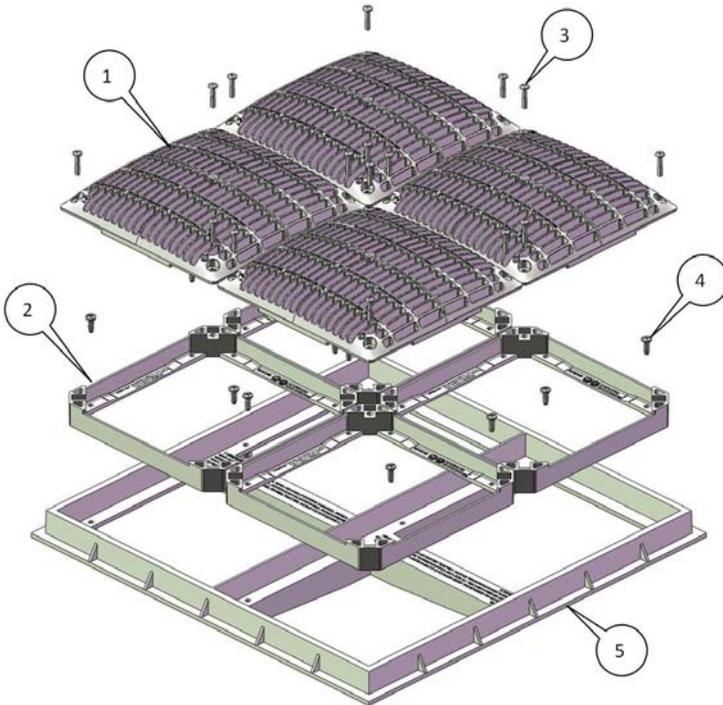
Outer Frame and Cover Assembly Dual Pack

Item	Description	Qty
1	Cover	8
2	Inner Frame	8 (Installed)
3	Machine Screw #10-24	32
4	#13-9 Self Taping Screw	32 (Installed)
5	Outer Frame	2

WG1033BLV2 18" x 18"

Replacement Cover and Inner Frame

Item	Description	Qty
1	Cover	4
2	Inner Frame	4
3	Machine Screw #10-24	16
4	#13-9 Self Taping Screw	16



⚠ Warning – Suction Entrapment Hazard.

Suction in suction outlets and/or suction outlet covers which are installed in a small area and/or below the surrounding surface can cause severe injury or death due to body entrapment hazard.

▪ To reduce the risk of body entrapment, installation of the field fabricated sumps must be such that the top of the mounted cover on the 18" x 18" is a minimum of 1 1/2" above the finished pool surface over an area larger than 40" on a diagonal.

When replacing a SP1031B grate with a replacement cover WG1033BLV2, in an existing SP1033A Outer Frame (One that does not have inner frame installed), the grate is removed and discarded.

Locate the Inner Frame (Item 2) and using four (4) screw #13-9 x 5/8" (Item 4) **Secure** Inner Frame to Outer Frame. Should you not be able to secure the Inner Frame to the Outer Frame using the existing holes in the Outer Frame; drill four .149" (#25) diameter holes in the Outer Frame, using the holes in the Inner Frame to locate the holes to drill in the Outer Frame. Using four (4) screw #13-9 x 5/8" (Item 4) **Secure** Inner Frame to Outer Frame utilizing the four (4) new holes.

Locate the Cover (Item 1) and using four (4) #10-24 x 15/16" long screws (Item 3) Secure to the Inner Frame.

When replacing a WG1033B or a WG1033BLV cover, **Do NOT** remove the Inner Frame from the Square Frame unless it is damaged. The four screws in the corners of the cover are retained in the cover. New screws should be used whenever the cover is replaced.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS INCLUDING SCREWS.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

HAYWARD® Pool Products Limited Warranty

To original purchasers of this equipment, Hayward Pool Products, Inc. warrants its Suction Outlet Frames and Covers 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.

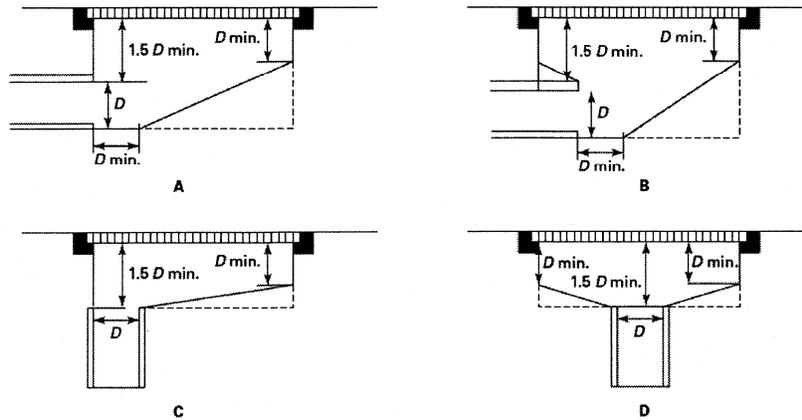
The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its' pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products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

***Supersedes all previous publications.**

**Hayward Pool Products
620 Division Street
Elizabeth, NJ 07207**

Field built sumps must be built in accordance with the following:



GENERAL NOTES:

- (a) D = inside pipe diameter.
- (b) All dimensions shown are minimums.
- (c) A broken line (-----) indicates suggested sump configuration.

<p>PRODUCT REGISTRATION (Retain For Your Records)</p>
<p>DATE OF INSTALLATION _____</p>

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



Dual Suction Outlet Set

Warranty Card Registration

Register online at www.haywardnet.com

Please Print Clearly:

First Name: _____ Last Name: _____

Street Address _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Purchase Date: _____

E-mail
Address: _____

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

Years Pool has been in service
 1 year or less 2-3 4-5 6-10 11-15 >16

Purchased from _____
 Builder Retailer Pool Service Internet/Catalog

Company Name _____

Address _____

City _____ State _____ Zip _____

Phone _____
 Type of Pool:

Concrete/Gunite Vinyl Fiberglass Other _____

New Installation Replacement

Installation for:
 In ground Above Ground Spa



Hayward is a registered trademark of Hayward Industries, Inc.