

Stainless Steel Underwater Speaker Housing (Niche)

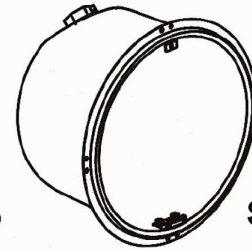
FOR INSTALLATION AT 6' DEPTH DURING NEW POOL CONSTRUCTION

INSTALLATION INSTRUCTIONS

Hayward stainless steel niches come in 4 models for concrete/gunite pool and spas, having both side and rear conduit connections. Hayward SP0604C, SP0609C, SP0606C, and SP0610C niches are UL listed under file number E39338. The Lubell Labs 9484 underwater speaker kit includes the SP0604C wet niche.



FILE E39338



SP0604C

IMPORTANT INFORMATION:

1. All Hayward stainless steel luminaire housings (niches) are Underwriters Laboratories (UL) listed under File E39338 - Category WBDT, for fresh water applications, and comply with the 2002 National Electrical Code (NEC).
2. Hayward stainless steel luminaire housings are UL listed only for use with certain Hayward submersible luminaires.
3. All Hayward stainless steel luminaire housings must be installed in compliance with Article 680 of the National Electrical Code (NEC) or other applicable electrical codes and with any applicable building codes. Article 680 requires that the luminaires be installed with the top of the lens at least 18 inches below the normal water level of the pool; Lubell underwater speakers must be installed @ 4'-6' depth (6 foot is optimum depth).
4. All Hayward stainless steel luminaire housings are provided with a combination bonding/grounding connector. The outside connection is the bonding connector as required by Article 680-22 of the NEC. The NEC requires that the bonding wire be 8 AWG or larger. Local codes may require a continuous loop and may require that the bonding point on the luminaire housing (niche) be encapsulated. The inside connection is the grounding connector as required by Article 680-22 (b) of the NEC. The NEC requires that when nonmetallic conduit is used, an 8 AWG insulated copper conductor be installed in this conduit. This connector is to be connected to the niche grounding connector. The connector and wire termination must be encapsulated with a listed potting compound* to a thickness of at least 1/8 inch (4 mm) in accordance with Article 680 of the NEC.

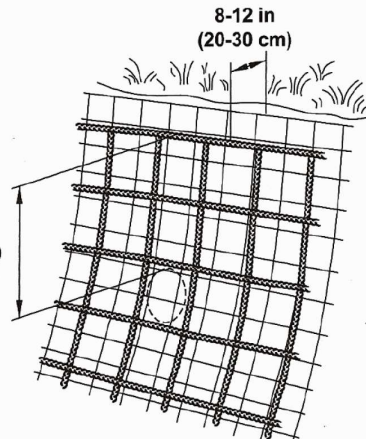
* 3M Inc. Scotch Cast Wet Niche Potting Compound No. 2135 (UL File E130394) or equivalent.

IMPORTANT: Use equipotential bonding grid only for all pool fixtures

1. PREPARE POOL/SPA WALL FOR NICHE INSTALLATION

The Hayward stainless steel niches are intended for installation in pools or spas with floors and walls formed of gunite or concrete (shotcrete) with a concrete reinforcing bar (rebar) frame. Gunite is a mixture of Portland Cement and sand, while shotcrete is a high strength (4000 PSI) concrete utilizing Portland Cement and small size aggregate.

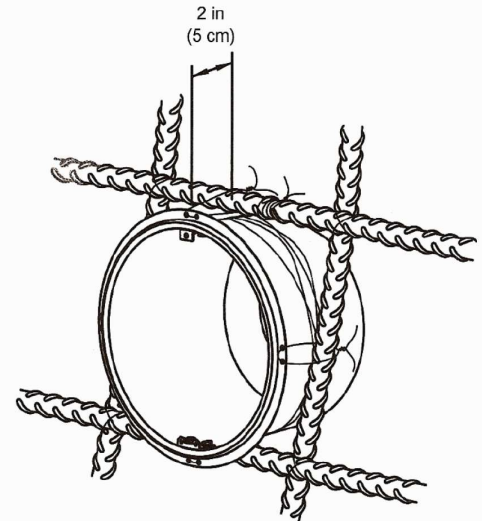
The outside shape of the pool or spa is formed from SteelTek or other suitable material. In some cases, the excavated dirt wall will serve as the outside form. The inside wall of the pool or spa is formed from rebar that is bent to the desired shape (see illustration). The distance between the outer and inner wall is called the beam and is typically 8 to 12 inches (20 to 30 cm). Rebar should be set at 10 inches (25 cm) for a 12 inch (30 cm) beam and 8 inches (20 cm) for a 10 inch (25 cm) beam. The distance between the niche flange and the outer wall should be the beam dimension. At all points where the rebar crosses, tie wire is used to connect the rebar securely.



2. INSTALL NICHE AND CONDUIT INTO POOL/SPA WALL

NOTE: For proper operation, the U/W speaker niche must be installed at least 4' - 6' below the water level. Be sure to position the niche so that you comply with this requirement.

Position the niche between adjacent rebars such that the niche is held on four sides by sections of rebar. At the time the niche is installed, it may be necessary to add sections of rebar or move existing sections to one side or another in order to ensure that the niche is held securely (see illustration). Once the niche has been securely positioned (wedged) in the rebar, it must be tied to the rebar with tie wire. Before tying niche in place, make certain the niche is plumb (vertical), and square to the form and that the top of the niche (where retaining screw is located) is at the 12 o'clock position. The flanges of the niche are provided with holes through which tie wire may be routed. Once the niche is tied in place, confirm that it is still plumb and the distance from the outer wall to the niche flange is the correct beam dimension. The rebar should be approximately 2 inches (5 cm) from where the inside finished surface of the pool will be. You must be sure to leave approximately 2 inches (5 cm) between the niche flange and the rebar (see illustration).

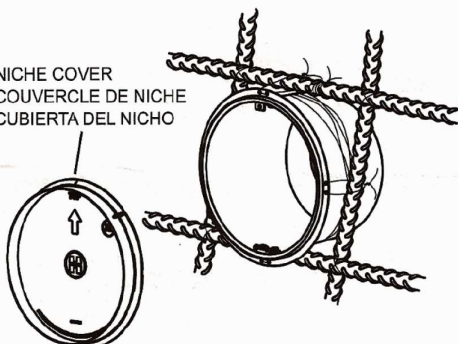


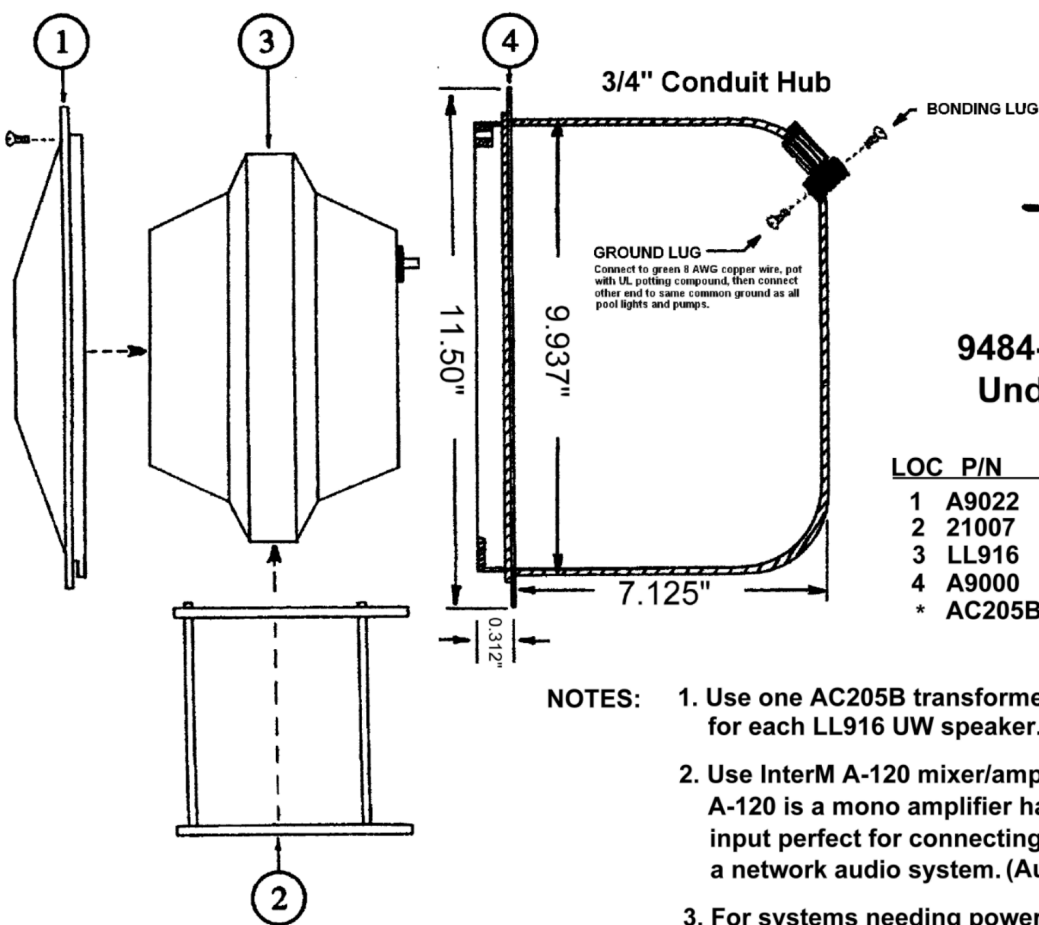
3. INSTALL CONCRETE/GUNITE AND PLASTER

After attaching the niche to the rebar of the pool/spa wall and attaching conduit and conduit fittings as necessary, install the plastic niche cover. The niche cover will prevent gunite or concrete from entering the inside of the niche during the pouring/shooting process. The outside bonding connection must be completed and inspected before the concrete/gunite pouring/shooting operation. Follow applicable codes. It is also necessary to prevent concrete or gunite from hardening on the outer edge and flange of the niche during pouring/shooting.

Once the concrete/gunite has completely dried, the niche is ready to be "plastered". Before applying plaster, the outer edge of the cover may be torn off to allow plastering up to the edge of the niche. REMOVE and discard the plastic cover when ready to install the luminaire. If the light is installed in the niche before pool/spa construction, the plastic cover may be reversed and taped to the edge of the light's face plate to protect it from concrete and plaster. The plaster is applied about 1 inch (2.5 cm) thick in the area surrounding the niche. The area between the front edge and the flange of the niche is also filled with plaster.

NICHE COVER
COUVERCLE DE NICHE
CUBIERTA DEL NICHIO





**9484-25V-050/100/150/200
Underwater Speaker Kit**

LOC	P/N	DESCRIPTION
1	A9022	SS grille w/10-24x 3/4" pan head screw
2	21007	PVC dipped SS speaker support
3	LL916	Lubell Labs underwater speaker
4	A9000	SS speaker wet-niche 3/4 IN hub
*	AC205B	25V Audio isolation & matching box

- NOTES:**
1. Use one AC205B transformer box (included with 9484) for each LL916 UW speaker. Parallel connection only!
 2. Use InterM A-120 mixer/amplifier for 1-3 Lubell 9484. The A-120 is a mono amplifier having a stereo -10 dB (Aux 1) input perfect for connecting to the Sonos Preamp to create a network audio system. (Aux 2 input is +4 for pro level devices.)
 3. For systems needing power amp only, use Bosch PLE-1P120-US for 1-3 Lubell 9484, or PLE-1P240-US for 4-6 Lubell 9484.

