ASTRALPOOL Ⓐ ®

Astral Pool Underwater Niche Lights For Concrete Pools

INSTALLATION AND

OPERATING INSTRUCTIONS

INST375

Ⓡ **Rainbow Pool Products**

POOL PRODUCTS

Quality Pool & Spa Products

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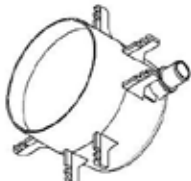Telephone STD 61-7-3849 5385

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INSTALLATION FOR CONCRETE POOLS

Kit Contents

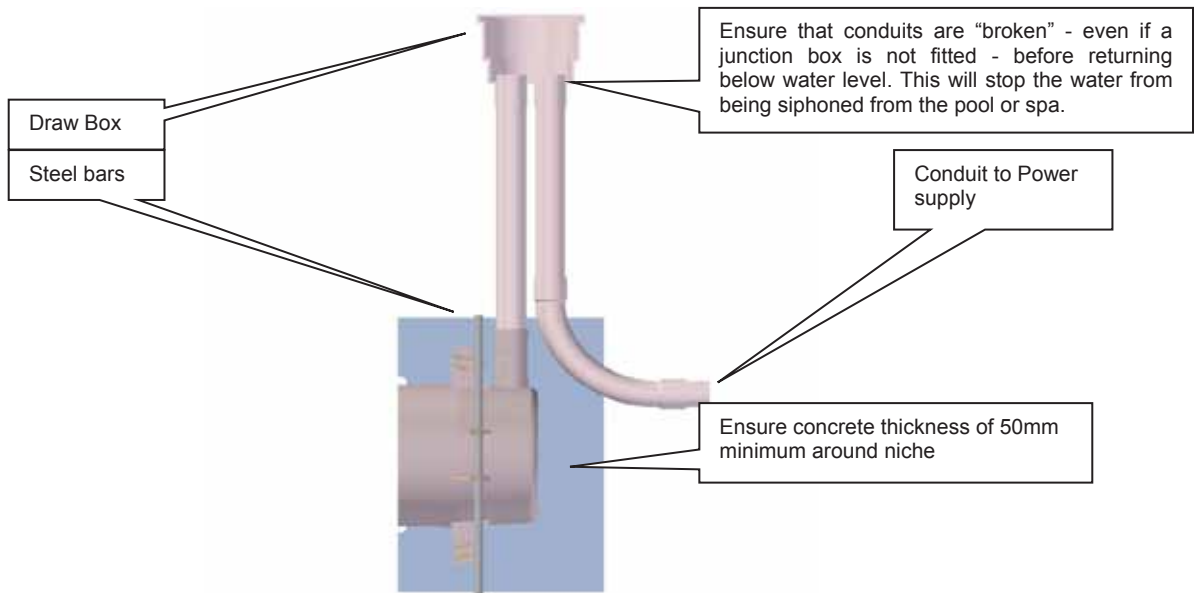| Quantity	Item	
1	75810-C Concrete Niche Assembly	
1	75811 Mounting Ring	
1	20348 Cable - SLX Light 20m, or 20344 Cable - SLX Light 35m	
1	26938 Foam insert 147mm diameter (fits niche)	
1	26939 Foam insert 136mm diameter (fits mounting ring)	

Installation Instructions

Please note that the first few steps of these instruction must be performed <u>before</u> the concrete is poured. Once poured, the remainder of the steps can then be taken.

1. Using soft wire or cable ties, attach the niche (item 75810-C) to the steel reinforcement. The conduit inlet should be directed upwards as depicted. For servicing and practical reasons, the light should not be installed deeper than 450mm below the water line. Install the niche so its front face will be flush with the inside face of the finished concrete wall.

Install flush with future concrete wall

25mm electrical conduit installed to inlet

Install flush with future concrete wall

Steel reinforcement bars

Future concrete wall

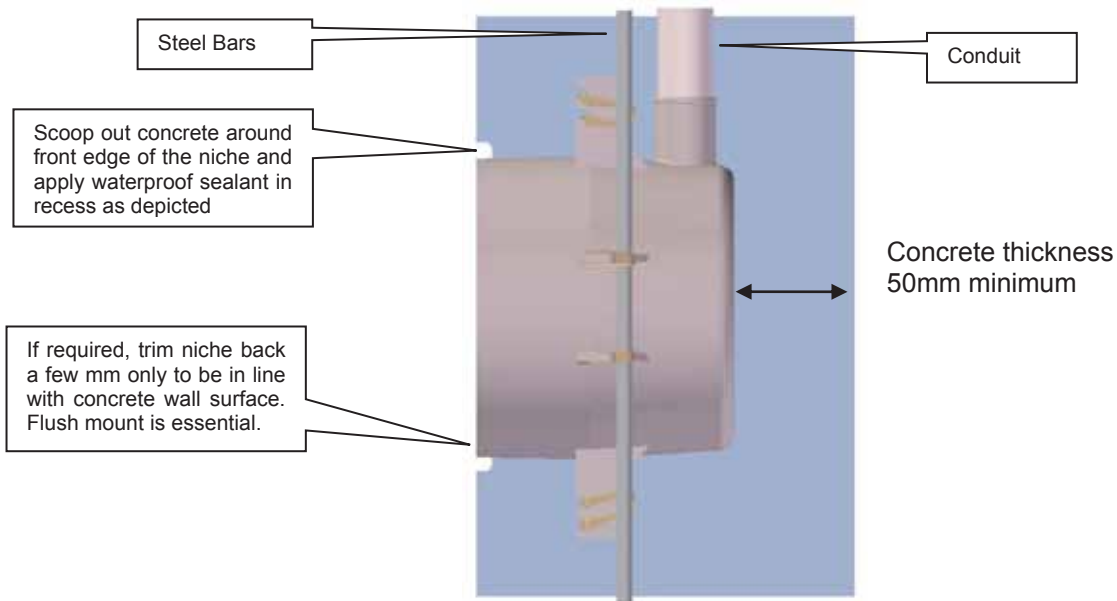Secure niche to steel bars with wire or cable ties
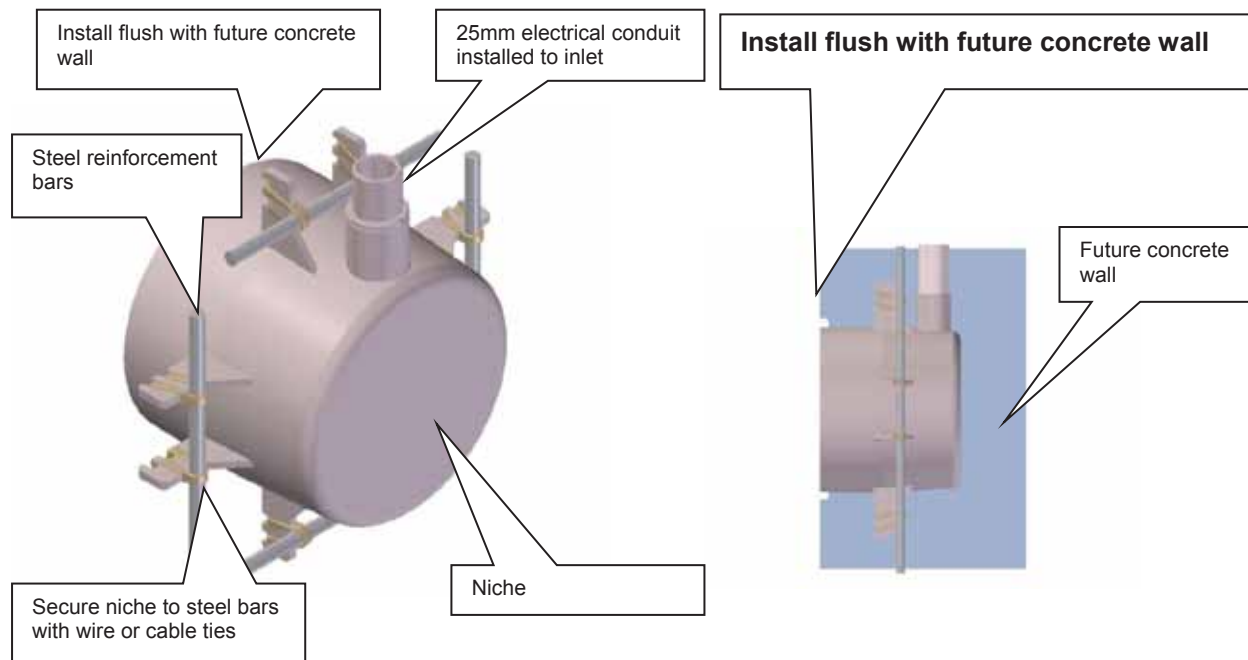
Niche

2. Glue a length of 25mm electrical conduit to the niche conduit socket using PVC solvent cement. Ensure the conduit extends above the water level of the pool. If a draw wire is not being used, the cable (item 20348 or 20344) must be fitted simultaneously with the conduit installation. Starting at the niche, run the cable though the conduit to the power supply. Leave 1m of cable surplus inside the niche, complete with the end of the cable with the plug, and coil up inside the niche until ready to fit the light. Ensure the cable gland inside the niche is fully tightened around the cable.
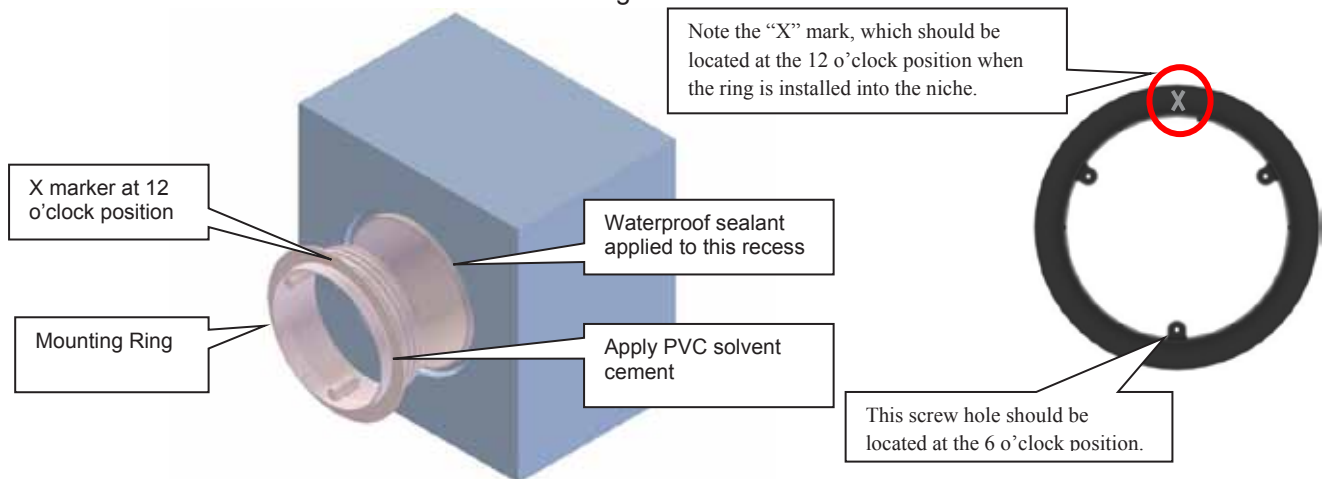
3. Install a second conduit to return below ground level and away to the power supply. Both conduits should be glued into a draw box to allow for future service.
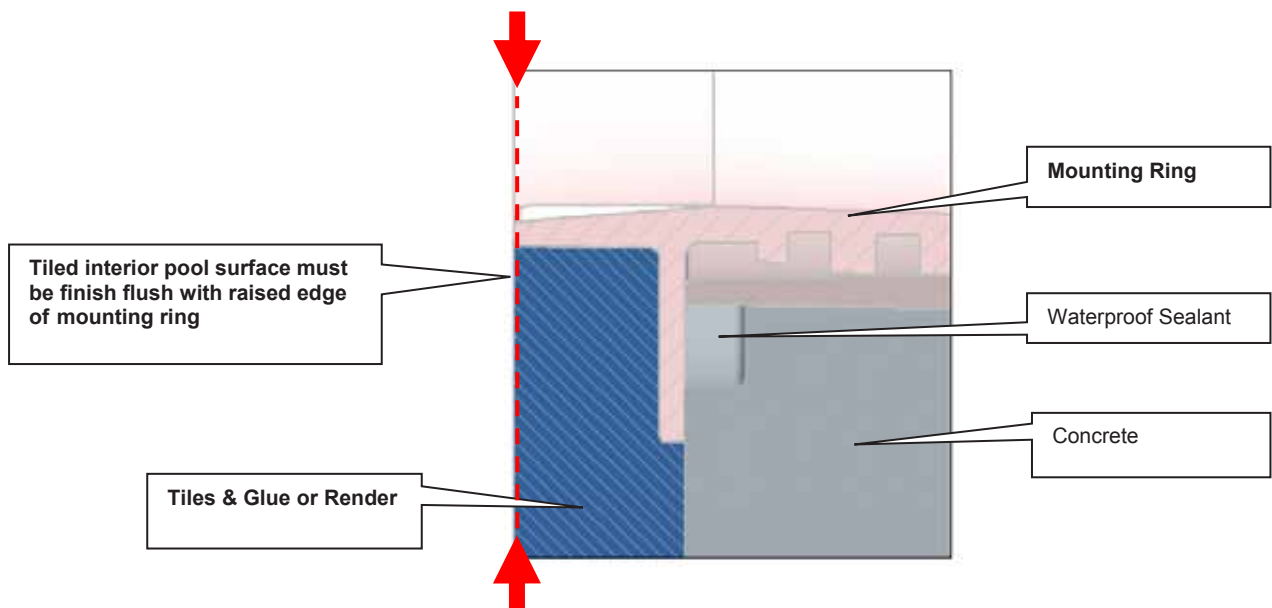
Draw Box

Steel bars

Ensure that conduits are "broken" - even if a junction box is not fitted - before returning below water level. This will stop the water from being siphoned from the pool or spa.

Conduit to Power supply

Ensure concrete thickness of 50mm minimum around niche

4. Press the larger polystyrene foam insert (item 26938) into the niche's front opening. This temporary insert will stop dirt, concrete and debris entering the niche and will maintain roundness of the niche under the weight of the concrete. The foam insert must be a tight fit inside the niche.

5. Cover the entire niche surface with concrete in a uniform manner to ensure secure fixing. Ensure the concrete covers the niche all around and at the back – air pockets and bubbles in the concrete must be eliminated. Avoid creating thin sections of concrete to minimise the risks of cracking or leaks. It is imperative the front edge of the niche does not stand proud of the concrete or sit recessed to the concrete. Ensure there is at least 50mm of concrete behind the niche.

6. Smooth the concrete around the niche and make a recess around the rim of approximately 8mm, to allow for installation of a waterproof seal.

Steel Bars

Conduit

Scoop out concrete around front edge of the niche and apply waterproof sealant in recess as depicted

Concrete thickness 50mm minimum

If required, trim niche back a few mm only to be in line with concrete wall surface. Flush mount is essential.

7. When the concrete has dried, remove the foam cover from the niche. Fill the recess around the niche with a waterproof sealant (2 part epoxy). Keep the sealant flush with the niche front edge and concrete wall surface.

8. To install the light mounting ring into the niche:

    a. Apply PVC cement to the swivel surface of the mounting ring (item 75811) and also to the inside of the niche where the mounting ring is likely to rest (approx. 20mm inside niche).
    b. For easier installation and maintenance of the light, it is highly recommended that the mounting ring be installed according to the following description. The mounting ring has a large "X" mark that should be installed into the niche such that the marker is at the 12 o'clock position. Please see the following image, which highlights the marker and its correct position. Press the mounting ring into the niche, with the marker at 12 o'clock, until the ring sits flush against the pool concrete wall. Check for correct installation before the glue sets.

Note the "X" mark, which should be located at the 12 o'clock position when the ring is installed into the niche.

X marker at 12 o'clock position

Waterproof sealant applied to this recess

Mounting Ring

Apply PVC solvent cement

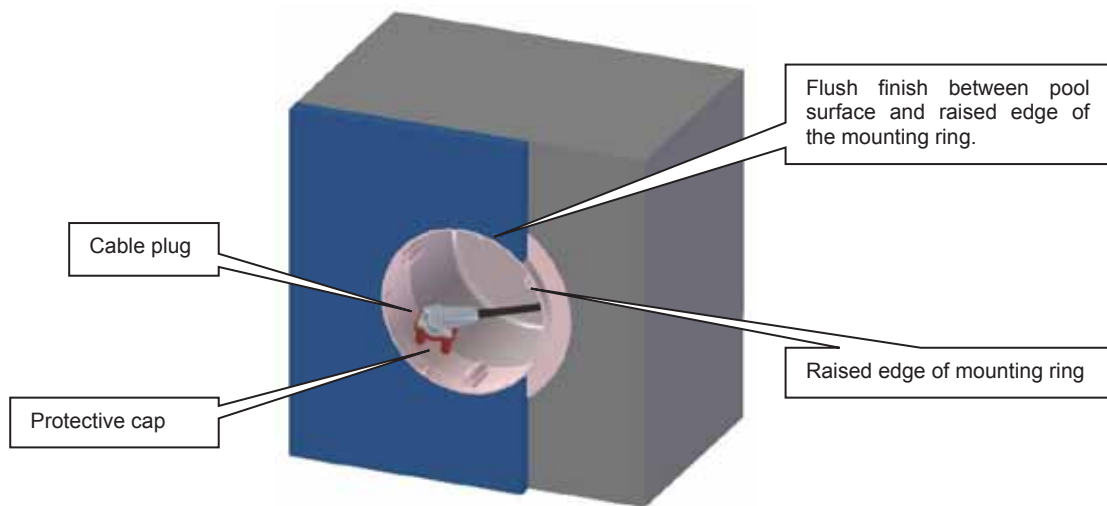This screw hole should be located at the 6 o'clock position.

9. Press the second, smaller polystyrene foam cover (item 26939) into the mounting ring. This will prevent dirt and debris entering the niche during rendering or tiling and will also help maintain roundness under the weight of the tiles.

10. Now apply the render or tiles, ensuring that the finished tile/render surface is level with the front edge of the mounting ring.

Mounting Ring

Waterproof Sealant

Concrete

Tiled interior pool surface must be finish flush with raised edge of mounting ring

Tiles & Glue or Render

ATTENTION: Interior pool surface must finish flush with the raised edge of the mounting ring, or it will not be possible to properly install the light.
ATTENTION: Do not install the light until the pool has been washed with acid.

Flush finish between pool surface and raised edge of the mounting ring.

Cable plug

Raised edge of mounting ring

Protective cap

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