

ANODES

A must for any pool or spa

We have had some people tell us that only saltwater pools need a sacrificial anode and we end up explaining to them that theoretically almost all pools are saltwater pools as all chlorine is made from salt, so whether you're adding chlorine the traditional way with liquid or tablets or you have a chlorine generator creating chlorine through electrolysis your pool is salted! Pools with chlorine generators typically will have a higher concentration of salt (3000-4000 ppm) but in saying that, it is not uncommon for a standard pool to have a salinity close to that required to operate a chlorine generator as the daily additions of chlorine will tend to slowly raise the salinity until spillage and backwashing requires adding water back into the pool.

As the trend for salt water pools using chlorination increases, so does the realisation that there is a downside.

In simple terms, a swimming pool acts like a big battery. A typical battery consists of an anode, a cathode and an electrolyte which allows current to flow between the two. In a swimming pool, you have dissimilar metals such as stainless-steel railings, copper, brass, titanium and nickel plating. In an electrolytic solution (Pool Water) the dissimilar metals act as anodes and cathodes.

When you have two different metals submerged or contacting the water, they can have a potential difference between them, the less noble metal (weaker and more active) of the two would be the anode. Current passing through the pool water to the nobler (stronger, least active) metal the cathode. The process of this electric current passing between the two results in a faster rate of corrosion of the weaker metal (the anode) is called galvanic corrosion.

Here is the definition of galvanic corrosion straight out of the dictionary (also called bimetallic corrosion) "an electrochemical process in which one metal corrodes preferentially when it's in electrical contact with another in the presence of an electrolyte"

A sacrificial zinc anode (variety of models) installed inline within the pools circulation system and attached to the bonding loop being the least noble (weaker) metal will sacrifice itself and deteriorate away protecting the other vital bonded metal components of the pool. So, the question is, does your swimming pool have a sacrificial zinc anode? It wouldn't hurt to have a little piece of mind and given that Sacrificial anodes are fairly inexpensive, so why not?

How it Works

The in-line zinc anode is attached to the bonding wire, thereby protecting all metal part (heaters, lights, rails, etc.) from galvanic corrosion. Zinc anodes will sacrifice themselves and corrode before all other metals in the pool. Zinc anodes need to be replaced approximately every 2-3 years.

Thermalec have a range of Anodes specifically for the pool industry. They are designed for new and existing installations and can be fitted easily.



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T104-C

Retrofit Anode for existing pools
The T104-C inline zinc anode is designed with a copper bonding wire attached thereby protecting all metal parts against the effects of galvanic corrosion. The T104-C is available to fit 1½" and 2" size pipes. The see through housing allows you to easily see when the anode has depleted and needs to be replaced. No re-plumbing required. A must for salt water pools.

Replacement Anode Kit
(No. T104-R)



New Pool Installation T104-D

Designed for new installations but can be easily fitted to existing installation, standard pipe fitting 2" can be reduced to fit 50mm or 1½" pipe. The T104-D helps protect heaters, pool lights and rails from damage due to galvanic corrosion. Inline zinc anode for new installations - 4 feet of #8 copper bonding wire included. Replacement Anode Kit (No. T104-R)



Any Tee Anode T104-D Spigot

The T104-D Spigot is designed to fit into any 2" Tee connector. The inline zinc anode is attached to the copper bonding wire thereby protecting all metal parts against the effects of galvanic corrosion. The see through housing allows the anode to be easily replaced when depleted.



Replacement Anode T104-R

Replacement Anode for items T104-C, T104-D, T104-D Spigot.



T104-B

Ladder Anodes now available. Simply attach the Anode to your pool rail or ladder under the water line



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