

## Indoor Pools

From the moment of activating your Anti Bio unit, the preprogrammed frequency will start with "bombardment" of the Calcium molecules in the water releasing more free electrons thus increasing the number of positive ions (oxidation-ionizing) and their capability in the water. Yet there is no need for alterations to existing pipe work, there will be no water circulation down time, installation or replacement of activators/probes. Several changes will start taking place in the water medium, without the need to make any deviations to the present way of operating your pool, as there is no physical contact with the water.

The benefits of having an Anti Bio system in place at your pool are categorised as follows -

**1)** The direct effect of this constant "bombardment" of Calcium molecules will be noticed through a 20-30% increase in the free chlorine reading levels without adding any extra chlorine. It will also be noted on your ORP or HRR reading of the control instrument, if you have one. The increase in the ORP will be in the range of 8-40mV. This will be observed in the first few days or week from the time of installation. After this period the system will settle on this higher level of reading but without the need of additional chlorine.

Note: your level of mV reading on the ORP, indirectly represents the volume of chlorine "present as oxidant" in your pool water.

**2)** For the sites where the water balance is maintained in correct order and the Total Alkalinity (TA) is held tightly under control, a change of the pH on the negative side will be experienced, however the pH will not fall below 7.3 points. Within a day or two the pH will revert to its original starting level or it will settle on the 7.5 mark +/- 0.1. There will be also on average a 20-30% saving in the need for acid or CO<sub>2</sub> as a "corrector" in pH control. The need for Sodium Bicarbonate will be dramatically reduced and the need for Calcium as water hardener halved.

**3)** For the sites where no water balance is maintained and TA is not controlled, the pH will "naturally" be high around 7.95-8.0. With the Anti Bio system in place the pH will assume the tendency to rise to about 8.1 points, but within the first week will start falling to levels of 7.7-7.8 and stabilize there. Again, considerable savings in the need for Acid, CO<sub>2</sub> and chlorine use will be noticed.

**4)** If the Anti Bio System was installed and activated just after the backwash time, the most "surprising" and remarkable change will be observed during the next backwash (if you have sight glass in place). The water will be "much dirtier" than previously seen. The reason for this is the unique property of the ABS, it creates in your filter an artificial coagulation effect, similar to that done by the correct use of Polymers or Alum (for outdoors pools), thus increasing your filtration efficiency. Very soon you will realize that no need for further coagulators (chemicals) are required. You will also note that after the second backwash has been done with

the Anti Bio System in place, the time to clean the filters is somehow shorter by approximately 30-60 seconds, producing considerable savings in the water use. These water savings are twofold -(1) less fresh water requirements (saving on water bill) meaning also less expenses for conditioning (chemicals and energy if you heat the water) and (2), less water in the discharge, meaning also less expenses as well as, less chemicals extracted from your pool water. If you do only 52 backwashes per year, the estimated (minimum) saving in water costs is around 35%, which is almost the volume of your pool.

Please note that if your backwash is automated and depends on the pressure differentials, it is possible for the Anti Bio System to trigger an "early" backwash in the first month or so.

**5)** Due to the higher free chlorine readings there is a reduction in the chloramines within the pool. This will give a reduction in the typical chlorine smell within the complex. And better quality water for swimmers within the pool.

