## What is Aqua-Rex and how does it work?

Aqua-Rex is a water treatment device that transmits radio signals into the water through two aerials wrapped around the outside of the pipe. These generate ultra-high frequency signals that travel in the water in both directions, upstream and downstream even when no water is flowing. They do not carry through the pump so Aqua-Rex must always be installed downstream of a pump. As the water circulates through the swimming pool, the system continuously treats the entire pool volume.

The Aqua-Rex system operates at very low power and is designed to treat water without the use of chemicals. It works by altering the way calcium scale forms, encouraging it to remain as a fine powder suspended in the water rather than adhering to pool surfaces. This suspended material can then be captured and removed by the filtration system.

The system also helps reduce existing scale by producing resonance in the water that weakens the bond between the scale deposits and resistant surfaces such as pool tiles and pipework. The existing scale will fall off the tile and can be swept up from the pool and removed by filtration. The scale that is often ejected by a salt cell is generally softer and less abrasive.

**Aqua-Rex is scientifically proven to improve the effectiveness of biocides so you need less chlorine or other chemicals.**

Read about this in "Water Research" The Journal of the International Association of Water Quality Vol. 33. No. 7. pp. 1618-1626 1999.
Elsevier Science Ltd.

## Quote from a Pool Service Company email sent to Aqua-Rex

**Subject: install at ABK From Clearwater Oasis LLC**

The Aqua-Rex was installed on November 21st 2011, 8 weeks ago. Water tests were checked by them and us throughout this time frame. Beginning water test was TDS (dissolved solids) 4800, Salt 3000, Chlorine level 2.0 (this was free and total), Ph 7.0, alkalinity 60, Calcium 170, CYA 10 (indoor pool).

The final test was pulled January 11th 2012. Results were TDS 4000, Salt 2500, Chlorine level 1.0, ph 7.5, alkalinity 89, Calcium 236. CYA 20.

TDS levels have decreased, however salt level was down reducing this level. TDS Levels may have reduced by 300ppm.

Customer has stated they have not had to scrub tile line. They have also begun shocking every other week instead of weekly, with system on. This is with a bather load of 350-450 children in the pool per week and a constant temperature of 88 deg. They also have not had to use the phosphate remover on the pool.

Thank you Clearwater Oasis LLC
End Quote

These results were from an indoor salt water pool which was constantly monitored. All parameters point to the results to be expected from Aqua-Rex. TDS reduction was not a big issue in this indoor pool but phosphate reduction was very significant as they were able to stop dosing to remove phosphates. Phosphates reduce the effectiveness of the salt water process and also reduce clarity of the water.

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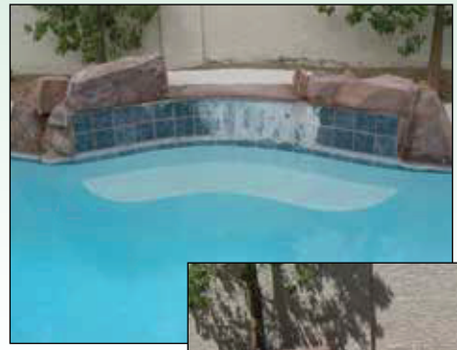
# AQUA-REX®

## CAN TURN YOUR POOL

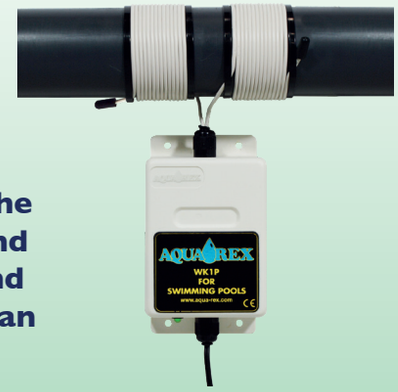
From This...



To This...



Using This!




**Just wrap the wires around the pipe and plug it into an outlet.**

**Set it and forget it.**
**Aqua-Rex needs no chemicals, servicing, or maintenance**

# AQUA REX® DOES THIS

- Calcium scale on tiles and pool walls breaks up and falls away. Stops calcium scale along the water line. Saves bead blasting.
- On Salt Water systems it keeps the plates cleaner. Saves de-scaling.
- Reduces phosphates in the water and makes it much clearer. Saves chemicals.
- Clears calcium scale from the filter media. Reduces need for back washing. Saves water.
- Cleans scale from the water heater. Makes it operate more efficiently. Saves energy.
- Helps kill bacteria so you have less need to "shock" treat a pool. Saves chemicals.
- Reduces TDS so less need to dump water. Saves water.

**Aqua-Rex requires no servicing or chemicals.**

**Low running costs, about $20 a year in electricity.**

**Unit is fully waterproof so it can be installed outside.**

**Easy and quick install.**

**No pipes to cut.**

100 DAY
NO HASSLE
MONEY BACK
**GUARANTEE**

If for any reason you are not satisfied with the results, simply return the unit to the outlet where purchased for a full refund

# Aqua-Rex for your Pool - FAQ's

### Where do I install Aqua-Rex?
Just wrap the two aerial wires around the pipe after the circulation pump and secure them with the plastic ties. You don't need to cut the pipe or do any kind of plumbing.

### What kind of pipe and what size will it fit?
Any type of pipe material is suitable and any size of pipe up to 2 ½ inch. If the pipes are bigger than 2 ½ inch, call us for advice on larger Aqua-Rex units.

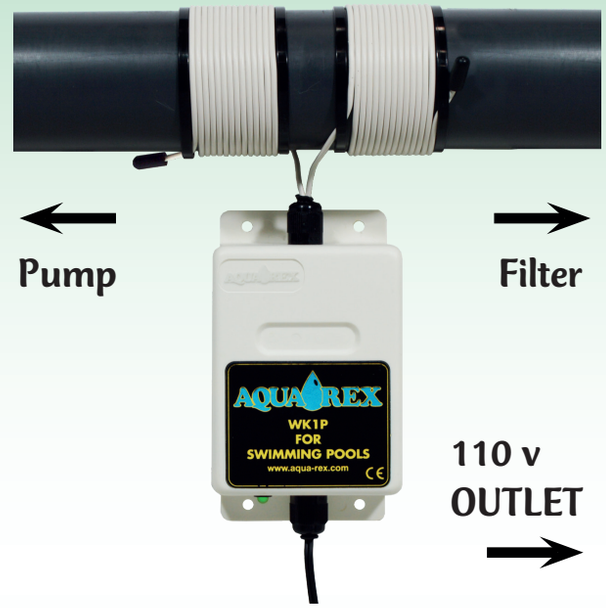
### What sort of outlet does it need?
The unit is completely weatherproof but the transformer is rated for indoor use only so the outlet needs to be weather protected. The low voltage cable is 10 feet long and it can be easily extended with bell wire to whatever distance you need.

### Does it need any maintenance or servicing?
Absolutely none at all. You set it and forget it.
It has a design life in excess of 25 years.

### Does Aqua-Rex get rid of all scale?
Aqua-Rex will get rid of Calcium scale but will have little or no effect on Silica scale. Silica scale is only an issue in a few areas of the country where Silica rich water is drawn from wells. Silica scale won't react to acids such as Vinegar or Muriatic and can only be removed with abrasives. Sometimes you will find all the scale disappears and then a thin layer recurs and this is likely to be Silica. Scale around the grout line comes from behind the tile and is mostly silica so Aqua-Rex won't get rid of it.

### Are there any harmful side effects?
None

### Will it work on the home as well?
Aqua-Rex works as an alternative to a conventional water softener in the home. See our website




**Aqua-Rex works for the home as well.**




- **Cleans shower heads and faucets.**
- **Softer water for skin and hair.**
- **Clears scale from heaters.**

**For more information visit www.aqua-rex.com**