



# **chemical** **FREE** **electricity** **algarid™** magnetic water stabilizers

Environmentally friendly water treatment with non-invasive magnetic technology for POOLS, PONDS, ALL WATER FEATURES, BORES, TANKS, IRRIGATION, COOLING TOWERS, LABORATORIES or anywhere you need to improve water purity, clarity, softness, filtration and quality.

## **ALGAE CONTROL**

The magnetic field in the Algarid acts as a catalyst combining one or more of the essential nutrients into a molecule, which cannot be assimilated by the organism, effectively creating a trace element deficiency. To understand this effect on algae, bacteria and fungi, these micro-organisms require food and a balanced diet the same as humans. All living organisms require at least 14 essential nutrients and if any of these are missing from their diet, trace element deficiency occurs so they certainly will not multiply and will most likely die.

## **IN-LINE FITTING FOR SUPERIOR PERFORMANCE**

### **SCALING & FILTRATION**

The Algarid technology controls scaling in pipe and fittings, also stains, smells, and blockages. The magnetic field has an effect on the scale-forming ions in hard water converting them from an adherent to a non-adherent form. This conversion aggregates the molecules into larger structures that aids sedimentation and improves filtration, prolonging the life of the filter media.

## **NEW PLASTIC MODELS**

### **3000 series**



32mm solvent weld connection or 1 1/4" BSP  
1", 3/4", 1/2" NPT  
Female Iron Adapters  
SUITABLE FOR SMALLER APPLICATIONS

### **4000 series**



40mm solvent weld connection or 1 1/2" BSP Female Iron Adapter  
SUITABLE FOR BORES, IRRIGATION, PONDS & FEATURE APPLICATIONS

### **5000 series**



50mm solvent weld connection or 2" BSP Female Iron Adapter  
SUITABLE FOR SPAS, SWIMMING POOLS, PONDS & FEATURES

**algarid** has helped many clients improve water purity, clarity, softness and quality.

**algarid** treatment differs from conventional water treatment. Utilizing magnetic water treatment brings about subtle changes in the water chemistry, which reduces the availability of minerals and nutrients for participation in trouble causing reactions and processes. Algae, bacteria and fungus are all living things, requiring food the same as you and I. They also require a balanced diet. All living things require a list of 14 essential nutrients such as nitrogen, phosphorus, potassium manganese, boron, etc. If any one of these essential nutrients is missing from their diet they will die, and certainly they will not multiply (trace element deficiency). Therefore **algarid** does not kill algae and bacteria outright, but starve these micro-organisms of nutrients that deny them the ability to grow and flourish. The magnetic field acts as a catalyst, combining one or more of the essential nutrients into a molecule, which cannot then be assimilated by the organism, thus effectively creating the trace element deficiency.

Magnetic water treatment, apart from inhibiting algal and bacterial growth also reduces scaling and promotes sedimentation. The magnetic technology is a result of the physics of interaction between a magnetic field and a moving electric charge, in this case in the form of an ion. When ions pass through the magnetic field, a force is exerted on each ion. The forces on ions of opposite charges are in opposite directions. The redirection of the particles tends to increase the frequency with which ions of opposite charge collide and combine to form a mineral precipitate or insoluble compound. The scale formed is non-adherent and remains suspended in the water that is preferred over the adherent form, which attaches to pipe surfaces.

**algarid** treatment has also proved effective in reducing bacterial counts in water supplies for households and dairies, and has allowed the use of bore water to be extended. Slime growth (and the resultant blockages etc.) can be checked in most kinds of equipment, for example; irrigation equipment in the field or in greenhouses, hydroponics and aquaculture installations, heat exchangers, control valves etc.

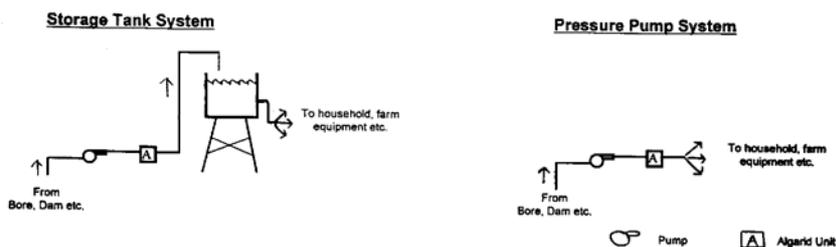
Striking results have been obtained by users in areas where problems are caused by high levels of iron in the water. Farmers report the elimination of iron staining on farm equipment (eg. In dairies), in domestic fixtures (eg. toilet pans & baths), and in washed linen and clothing after fitting an

**algarid** unit to their water supply. Mineralized water is said to taste 'sweeter' after treatment. It has been reported that cattle have been observed to drink treated water more readily than untreated water, a result which has apparently led to increased milk yield of up to 2 litres per day.

[www.algarid.com](http://www.algarid.com)

**algarid** water stabilizers have many applications in rural communities.

Fitting an **algarid** in a line supplying water from a bore or dam will control the growth of algae and bacteria in tanks and drinking troughs. The treatment will also enhance sedimentation if the treated water passes through a tank or reservoir before it is used.



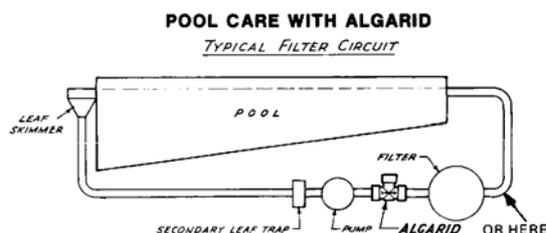
These illustrations refer to treatment of an entire water supply. If one piece of equipment has a problem, optimal results may be obtained by installing an **algarid** in the line immediately before that equipment. Recirculating systems eg. cooling circuits or swimming pools, should have a unit installed in the recirculating line. Best results are achieved when all water entering a system or device is treated.

The versatile and inexpensive plastic series are suitable for most domestic and small-medium farm applications (up to 300 litres/m), and can easily be installed in most systems. It is also adapted to fit plumbing fittings from 12mm to 50mm size and, providing the unit is completely filled with water during operation, it is effective even at very low flow rates.

**algarid** treatment differs from conventional water treatment procedures. Utilizing magnetic water treatment brings about subtle changes in the water chemistry, which reduces the availability of minerals and nutrients for participation in trouble causing reactions and processes.

**algarid** treatment also offers great benefits when coupled with filters used to extract sediment or contaminants (eg. chlorine residues) from water. If bacterial slime growth is controlled by installing an **algarid** unit before a filter, the filtering medium is able to do its intended job of removing unwanted impurities for much longer periods than would otherwise be possible. This results in great savings on filter cartridges and/or reduced maintenance. In hard water areas, users find that soap lathers better and is more effective than in untreated water, and also that bath rings and toilet rings have been eliminated by installing **algarid**.

Crystal clear water with **algarid** magnetic water stabilizers for pools, spas, tubs, fountains, ponds and water features.



Less backwashing will result if the **algarid** unit is installed between the pump and filter. If this is not possible then the unit can be fitted in the return to pool line.

**P.H.:** It is essential to keep the P.H. level correct. If it is not, then apart from irritating the swimmers eyes, the clarity of the water cannot be maintained, as flocculation will occur if the P.H. is out of balance.

**FLOCCULATION:** In tap water there are usually present many fine particles that are smaller in size than the filter is capable of removing. By adding a flocculent these particles are attracted to each other and form larger particles, which the filter can remove.

**CHLORINATION:** When chlorine is added to the water it is used up in two ways, (a) by attacking the living organisms, and (b) by escaping from the water due to light, especially sun light. (Better to add chlorine after sunset) Adding just sufficient chlorine to kill the living organisms and having just a small margin over reaches breakpoint chlorination. Your test kit measures this residual chlorine. Ideally a little chlorine regularly is better than big doses occasionally.

**FITTINGS:** Either your pool supplier or plumber can sort out the correct fittings for your installation.

**REFILLING:** If filling the pool it is best to remove the **algarid** from the circulating system and fill the pool through it attached to the end of the hose on the bottom of the pool. When full, replace the **algarid** in the circulating system, add recommended dose of chlorine compound and start the pump. Run the pump and filter until the water is clear.

#### WHEN THE POOL IS ALREADY FULL

After the **Algarid** has been fitted run the pump as normal at least 2-3 hours a day. It could take 2-3 weeks before all the water has been circulated. If possible move the water round as dead spots occur frequently in corners and at steps etc. Note: Swimming is a good way to mix the water. Continue adding chlorine but always test first because as the water becomes more fully treated the demand becomes less and when fully treated approximately 50% less chlorine will be required to maintain breakpoint chlorination. Now that all the water is treated it is not necessary to maintain breakpoint chlorination but a little chlorine is needed for flocculation and also to bleach the water to retain the blue appearance. If the pool is in constant use then more filtering will be required, but when the pool is not in use, provided the leaves and other solid particles are vacuumed out and the water is clear, then there is no need to run the filter at all.

During winter, a pool fitted with **Algarid** may be left unattended without addition of any chemicals for as long as 8-10 weeks. Should the colour change then all that need be done is to add chlorine, sweep the bottom and turn on the filter until clear again. Vacuum if necessary.

After 3-4 weeks brown or black stains may appear in depressions or blemishes in the pool surface, mainly on the bottom. These are dead bacteria. It can easily be removed by sprinkling chlorine powder on the surface of the water above the affected area and after ten minutes, sweeping up the solution. They will not reappear.