



Rural Applications

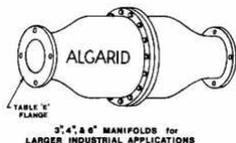
algarid has helped many clients improve water purity, clarity, softness and quality.

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 liters per day.

algarid water stabilizers are available for larger applications to suit pipe sizes 80mm, 100mm and 150mm allowing treatment of up to 4800litres/min.



Constructed from the highest quality bronze with state of the art ceramic magnets, the units are easily installed in either metal or plastic pipelines.

algarid water stabilizers need never be touched while in service providing it is protected against blockages by larger objects. No power or chemicals are required and optimum performance can be expected with a minimum field expectancy of at least 25 years.



algarid

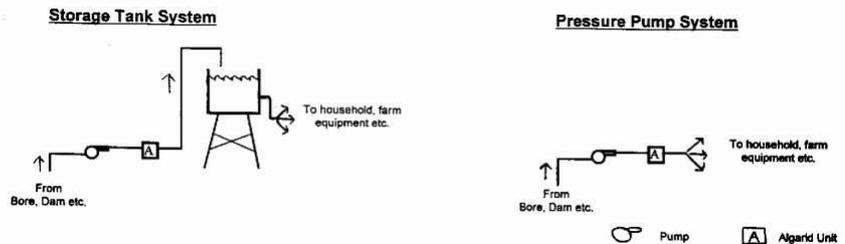
Magnetic Water Stabilizers

www.algarid.com

RURAL

algarid water stabilizers have many applications on farms and 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 40mm (1½") model ALG05 is suitable for most domestic and small-medium farm applications (up to 300 litres/m), and can easily be installed in most systems. It can also be adapted to fit plumbing smaller than 40mm 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.

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 microorganisms (including Legionella bacteria) of nutrients that deny them the ability to grow and flourish. The magnetic field in the algarid 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 obviously is preferred over the adherent form, which attaches to pipe surfaces.

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 have been eliminated by installing algarid.

Proudly Manufactured in Australia by:

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