Aquarius Drilling & Water Treatment

BORE, DAM & RAIN WATER TREATMENT ☎ 03 9555 2524

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Re: Car Wash Water Quality.

In a car wash cars need to be cleaned in the best possible way without any dirt, white spots or residue.
Your water quality is one of the main parameters to the successful operation of your car wash cleaning performance.
To achieve this target, you need a proper water treatment equipment and regular maintenance.

Water treatment in a car wash is divided into 3 sections:

1. Soft water:

Soft water is town or bore water with 0 Total Hardness = Calcium ($CaCO_3$) and Magnesium Hardness ($MgCO_3$).
This is achieved by using a good quality volume counter (not timed) water softener before all wash cycles and the results are:

- No white spots or marks (calcium bio-carbonates) on cars.
- Your soaps will suds and clean better using soft water.
- Less maintenance and problems on your auto wash system.

2. Spot free water:

Spot free water (pure water) is town or bore water with 0 Salinity levels of TDS (Totally Dissolved Salts).
0 Salinity levels is achieved by using a good quality spot free system the results are:

- No white spots or marks (calcium bio-carbonates) on cars if any left from privies wash cycles.
- Aggressive water (low ph) on the last cycle will make sure no dirt or spots left on the cars.
- Shiny and clean finish look for the cars.

3. Chlorine media filter:

- Filtrations down to 1-3 micron and 0 ppm of chlorine. This produces exceptionally clean and chlorine free water.
- No loss of pressure.
- Automatic backwash on volume count or timer or both.

AQUARIUS
Drilling & Water Treatment

Servicing all your bore, dam, rain & town water treatment needs.

FULLY AUTO DOMESTIC & COMMERCIAL WATER SOFTENERS

UNDERSTANDING WATER SOFTENING:



To understand the process and the need for water softening, first we need to understand what makes hard water.

Hard water is caused by an excess of calcium and magnesium ions in a water supply that mix with oxygen in water and the calcium precipitates to a white crystal quite readily.

Calcium and magnesium ions are the cause of water to be considered hard and are actually major base ions and also called metals in water chemistry.

It is generally considered in most uses that water becomes hard at about 100ppm of total hardness and the problem shows in these ways:

- The water is difficult to lather
- The water leaves white marks
- The water coats elements when heated such as the kettle or Jets
- The hard water supply can cause calcium build up in pipes and hot water services
- It is the heart of most salinity problems in irrigation.
- It is unpleasant to drink

Water softening is the best-known method using cation exchange resin.

This method removes the calcium and magnesium ion to very low levels and will also oxidize other metals such as iron, manganese, copper and silver. Cation exchange resin is placed into a pressurized vessel and the hard water is passed through.

The resin is coated with sodium beads Na+ and what then occurs in the exchange process is known as the action of a competitive environment. We use the Fleck Pentair control valves as they are the world leaders in reliability and performance in electric control valves and sheer simplicity.

We use Structural pressure vessels for reliability and build. Fine mesh cation resin is used in the vessels. The systems are built in Melbourne and warranty is national and support is excellent. We have a full range of water softeners from 20mm systems to 100mm in single or twin tanks. We are offering the widest and the most reliable range of water softeners on the market.

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