

Hydro-Techniques M.P.B. inc.

Serving Industry and the Environment

**Presents
aguatron**



UTILIZATION

- ★ The goal of the **aguatron** electronic apparatus of **Hydro-Techniques MPB Inc.**, is to control calcium deposits without using chemical products (to condition drinking water).



DEFINITION OF WATER HARDNESS

- ✦ **Total hardness is defined as the sum of the calcium and magnesium concentration, both expressed as calcium carbonate, in milligrams per liter**

ELIMINATE CALCIUM PROBLEMS AND HARD WATER

WITH *aguatron*

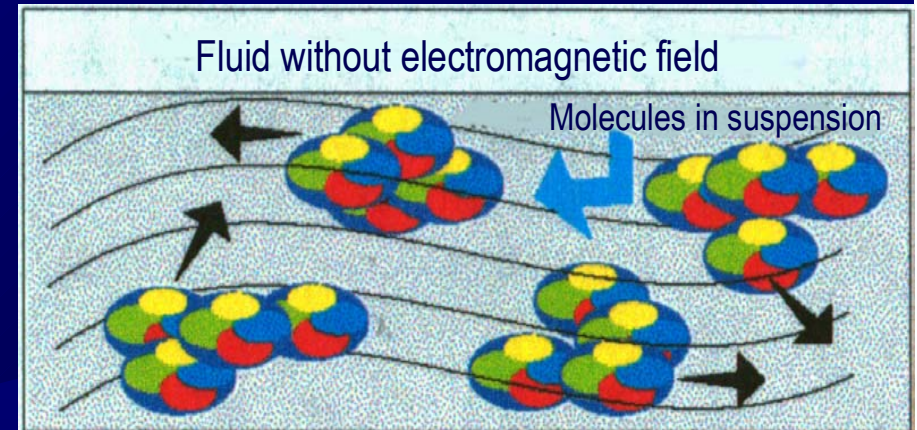
Innovative technology (patented)...

- **aguatron** is product of the latest technology. It is an advanced design of integrated circuit (digital electronics) electromagnetic field generator, which generates a vast spectrum of frequencies.
- The electronic circuitry changes in amplitude, polarity and frequency so that calcium compounds in the water are fragmented. Also, the same process eliminates existing calcium deposits.



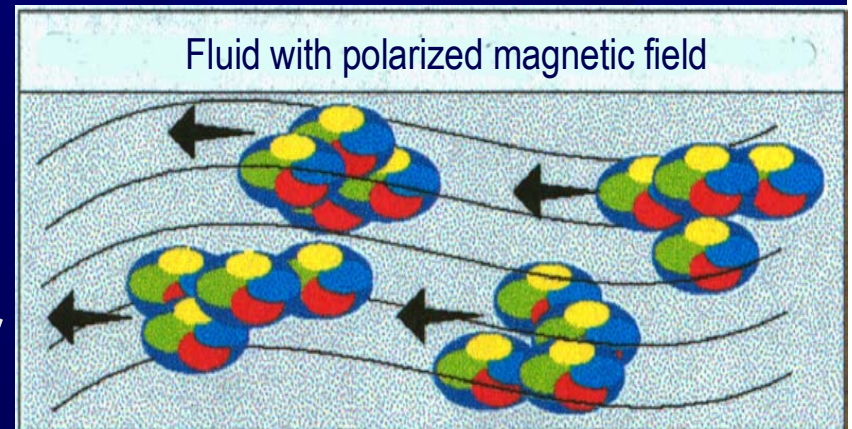
HOW aquatron REDUCES AND ELIMINATES CALCIUM FORMATIONS

- ★ The circulating fluid is composed of minerals (calcium and other solids) in free suspension.
- ★ Eventually the molecules will cluster and adhere to the surface of the pipes or machinery obstructing the flow and affecting performance



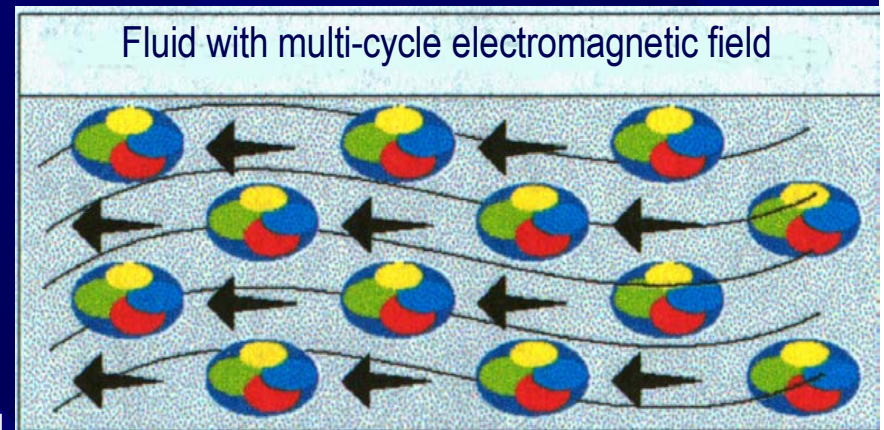
HOW aquatron REDUCES AND ELIMINATES CALCIUM FORMATIONS

- ★ In the case of a uniform magnetic field (bar magnets), the molecules will migrate in the same direction.
- ★ The polarized magnetic field will not keep the molecules from sticking to each other or from sticking to the inside of the
- ★ This technology is limited by certain conditions (flow rate, mineral concentration and temperature).



HOW aquatron REDUCES AND ELIMINATES CALCIUM FORMATIONS

- ★ aquatron, with its multi-frequency electromagnetic field generator is not limited to ideal conditions of flow rate, mineral concentration and temperature.
- ★ It breaks the attraction between the molecules and keeps them from sticking to each other and from sticking to the inside of the pipes and machinery.
- ★ The size of the molecule clusters is greatly reduced and accumulation will not occur.



aguatron

- Restores peak performance
- Easily installed
- Substantial energy savings
- Reduces downtime
- Reduces breakdowns
- Reduces maintenance costs
- Non polluting
- Frees scale and slime
- 100% safe
- Extends equipment life
- Eliminates or reduces chemical treatment
- Continuous operation
- Supervision-free
- Extremely low current consumption
- May be used on drinking water systems
- Available for high temperature applications.

ADVANTAGES of aquatron

CRITERION	Chemical Products	aquatron
100% efficiency	No	Yes
Frequent repetitions	Yes	No
Downtime production	Yes	No
Removes old deposits	No	Yes
Equipment returns to original effectiveness	No	Yes
Protects the equipment (motors, pumps, etc.)	No	Yes
Suppresses bacteria proliferation	Partially	Yes
Health hazard	Often	No
Is environmentally friendly	No	Yes

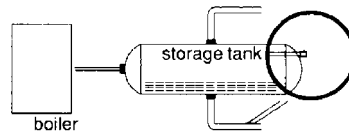
EXAMPLES OF APPLICATIONS COMMERCIAL & RESIDENTIAL

- ★ Heating tables
- ★ Autoclaves
- ★ Water heaters
- ★ Dishwasher boosters
- ★ Chromalox style small water heaters
- ★ Air Compressors
- ★ Cooling towers
- ★ Wells (eliminates water softeners)

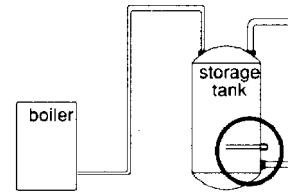


5 YEAR WARRANTY

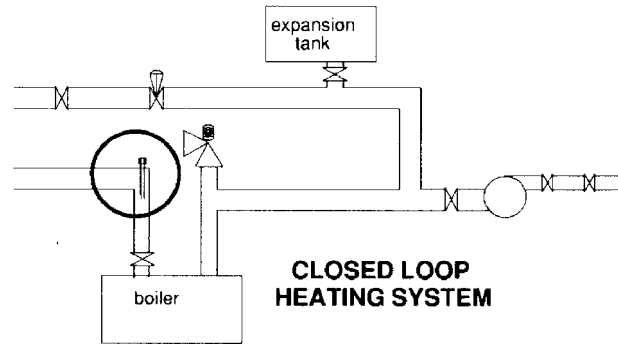
Industrial Applications



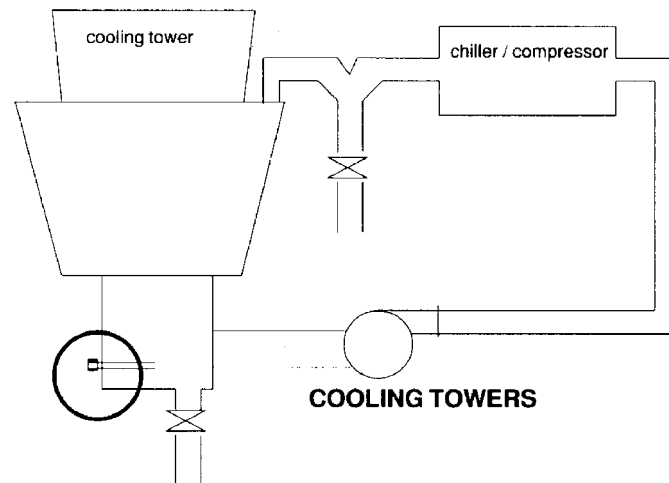
**GAS / OIL
INDIRECT FIRED**



GAS / OIL DIRECT FIRED



**CLOSED LOOP
HEATING SYSTEM**



COOLING TOWERS

Installation



Installation step 1



Installation step 2



Installation step 3



Installation step 4

Installation continued



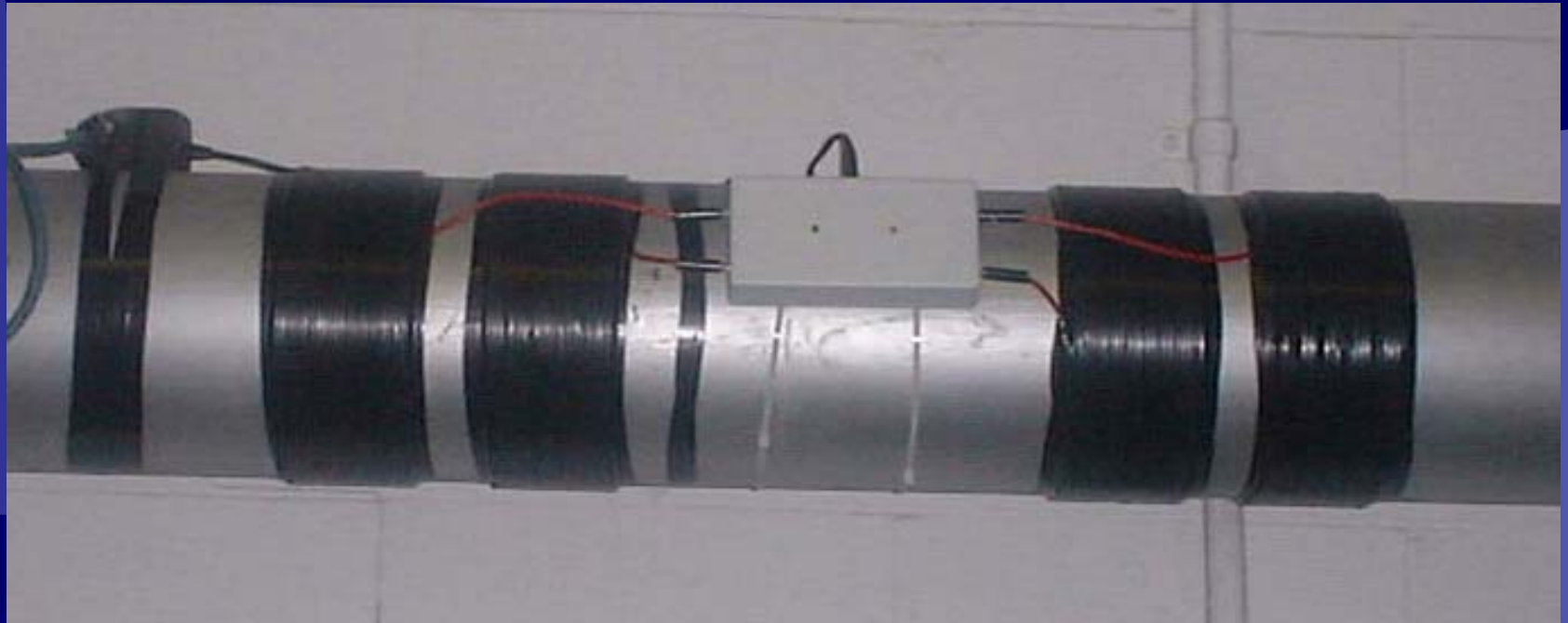
Installation step 5



Installation step 6

Installation on a 4 inch water entry

Installation on a water tower, 350 tonnes, 8 inch dia. pipe



6 inch diameter copper pipe with calcium accumulation on a fresh water exchanger over a period of 12 years.



aguatron solves all of these problems



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