



M.A.I.C. Water Softening Treatment System

HIGH POWER LINE

The M.A.I.C. water treatment system is a new revolutionary method of water conditioning created specifically in order to eliminate water hardness DEFINITELY.

M.A.I.C. conditioning is carried out through the synergic and continuous action of a series of powerful permanent magnets and an induction catalyzer.

M.A.I.C. breaks down via cold process rather than hot the calcium bicarbonate molecules into many small ions so that when heating water there is no formation of Calcium carbonate, also known as calcite responsible for calcareous deposits. On the contrary, with M.A.I.C. the formation of new and harmless crystal, Aragonite, is determined.

In fact, if the calcite deposits lead to persistent encrustation especially on heated metallic elements, Aragonite remains dissolved and is not deposited but eventually expelled by the normal flow of running water.

We can thus summarize what happens in the two cases.

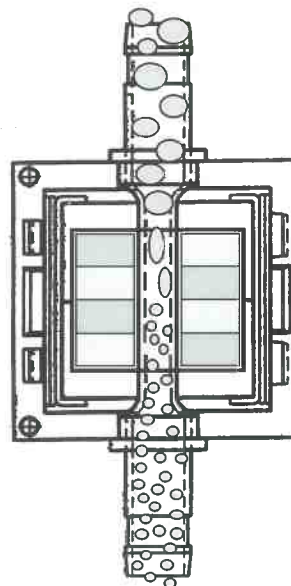
- ① $\text{Ca}(\text{HCO}_3)_2$
Calcium bicarbonate
- ② Heating water = CaCO_3
- ③ Deposits

M.A.I.C. DOES NOT MODIFY WATER HARDNESS

Moreover, it is innocuous to health, does not contain additives, chemical products or harmful substances. M.A.I.C., in fact, does not modify biological structure of water and intervenes exclusively on Calcium carbonate molecules.

M.A.I.C. is autonomous and does not require the addition of salt or other substances. It is also maintenance free.

M.A.I.C. is manufactured in conformance with decree 443 of 21.12.90 and obtained approval certification for potable water treatment from the Ministry of Health 21.10.94 (authorization 400.4/18.10.A/3385). All M.A.I.C. products are furthermore in conformance with EEC directives, DIN VDE 0700/EN 50084/10.92 norms and all National Association for Industrial Uniformity norms. For further information and for examination of authorization certification obtained, please consult "M.A.I.C. Global Projects for Physical Anti- Limestone Treatment" documentation.



	Without M.A.I.C.	With M.A.I.C.
①		
②		
③	Resistance Encrustation 	Resistance Clean



NORM
443
M.D.
21.12.90

DOMESTIC
HOUSEHOLD
APPLIANCES
FOR WATER
TREATMENT OF
DRINKING WATER



DIN
VDE 0700
EN 50089/
10.92

NATIONAL
ASSOCIATION
FOR INDUSTRIAL
UNIFORMITY
NORMS

CESI

HIGH POWER LINE

Created for those who need to unite to the by now unquestionable reliability of M.A.I.C. products superior performance and the selection of quality materials (i.e. stainless steel), the HIGH-POWER line lends itself as the top of the M.A.I.C. series.

M.A.I.C. HIGH-POWER is the ideal solution for all professional-industrial applications such as:

- Applications on hot water utilization industrial cycles;
- Closed circuit cycles with heat exchangers;
- Industrial cycles with steam production;
- Cooling tower;
- Cooling electric tools;
- Civic plants of medium-large dimensions;
- Applications on coffee machines, irons, steam cleaning machines, etc.;
- Application on steam furnaces;
- Application on industrial restaurant equipment (dishwashers, boilers, etc.);
- Ice making machines;
- Medical and dental sector electrical apparatus (dental chairs);
- Other applications.

All the principal applications mentioned above have been tested by our technicians and have furnished excellent results.

In determining the most suitable product for your needs and for advice concerning installation consult your nearest M.A.I.C. HIGH-POWER distributor or our technical department.

M.A.I.C. HIGH-POWER line products are known for their unmistakable warranty seal of compliance to HIGH-POWER requisites and are available in different versions of which the principal ones shall be reported in the following.

Furthermore, it is possible upon request to realize models for specific application necessities.



CODE	DIMENSIONS (CM)	ATTACHMENTS	*POWER DFR	**POWER DFT	NO. OF MAGNETS	LITER HOURS
001-HP	13.5 x 7 x 3.7	3/4FX3/4M	4000	16000	8	1000
001S-HP	13.5 x 7 x 3.7	1/2MX1/2F	4000	16000	8	1000
001X-HP	13.5 x 7 x 3.7	3/8FX3/8F	4000	16000	8	1000
002Y-HP	36 x 6.5 x 3.7	1/2 or 3/4	4000	40000	20	2000
004-HP	40 x 4.5 x 10	1" or 1 1/4	6000	60000	20	6000
005-HP	8 x 4.2 x 2.6	DIAM. 8	5500	22000	8	200
005X-HP	8 x 4.2 x 2.6	1/8MX1/8M	5000	22000	8	350

*DFR = Fluid density (power) at center of tube

**DFT = Sum of DFRs (total density or total power).

M.A.I.C.2 and M.A.I.C.4 are also available in stainless steel



M.A.I.C. HIGH-POWER IS PRODUCED BY

