

MAGNA-FLOW FLUID CONDITIONER



MAGNA-FLOW is a versatile new device for the magnetic treatment of fluids. A major advance from past designs, the Magna-Flow incorporates 12,300 Gauss neodymium magnets in a bipolar, axial alignment. This unique new design produces powerful, focused, reversing magnetic fields with a resonating effect that has a significant impact on fluids or gas passing through the device. This fluid treatment system is so unique it was awarded U.S. Patent # 4,995,425

HISTORICAL USE OF MAGNETIC FLUID TREATMENT

The application of magnetic fields to treat hard water to eliminate scale build-up in pipes has long been known. Magnetically treated water is more soluble, which makes soap and detergents more effective. Magnetic devices are used in the oil industry to prevent sulfur and paraffin build up in crude oil pipelines. Much of the world's ocean shipping uses magnetic treatment on desalinating equipment and salt water cooling systems to prevent the encrustation of salt. Magnetic devices are known for their capabilities to reduce fuel consumption and emissions in internal combustion engines.

RECOMMENDATIONS

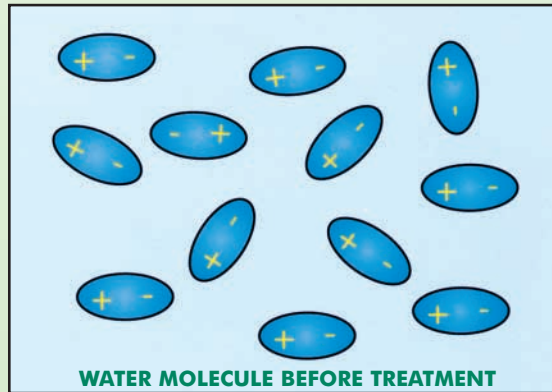
The U.S. Department of Energy encourages the use of magnetic devices as a non-chemical alternative for the treatment of hard water scale. This was detailed in the Federal Technology Alert, 1986, "Non-Chemical Technologies for Scale and Hardness Control".

WHAT IS MAGNETIC RESONANCE?

Magnetic Resonance is the physical effect applied to the atoms of fluid as it passes from one magnetic field into the reverse magnetic field of the opposite polarity. This produces a resonating, polarizing effect on the atoms of hydrogen, oxygen and mineral in water and on the hydrocarbon atoms of fuel. This principal is somewhat similar to that used in MRI (magnetic resonance imaging). A major advance in diagnostic medicine, MRI uses the differing images produced by applying a strong magnetic field (60,000 times as strong as that of the Earth) on the hydrogen atom, to produce an image far superior to what had been possible before. (Medicine's New Vision - National Geographic, January 1987)

HOW THE MAGNA-FLOW AFFECTS WATER

Scientific studies conducted for the U.S. Department



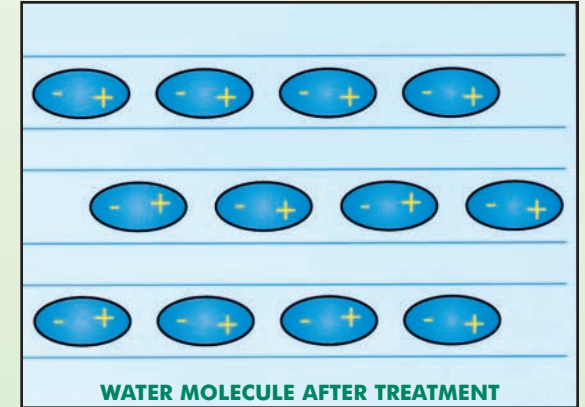
of Energy by Tulane University show that water molecules with a normal random polar arrangement passing through an alternating magnetic field become polarized so that molecules become aligned.

After exposure to the magnetic field, molecules that cause scale tend to remain in suspension attracting each other instead of being attracted and attaching to pipe walls and plumbing surfaces. These scale-causing molecules are then carried out through the system, settling in areas such as the bottom of the hot water tank where they can be easily flushed.

Though the Magna-Flow does not remove the mineral content of hard water like salt water softeners, many feel magnetic treatment is an acceptable and more

environmentally friendly alternative to the use of chemicals.

Salt water softeners, though efficient, are expensive to operate and in time, pollute the environment with salt from back washing. Several localities in the U.S.A.



currently ban or plan to ban the use of salt water softeners for this very reason.

BENEFITS

The benefits are the potential cost savings from reduction and/or elimination of the use of chemicals and reduced environmental pollution. There is great potential for savings due to more efficient heating and lower cooling costs from the reduction of scale. (US Dept. Of Energy, Federal Technology Alert from 1986)

HOW THE MAGNA-FLOW AFFECTS FUELS

Using the same basic principals, magnetized fuel inhibits varnish forming in injectors and carburetors, removing existing accumulation of carbon from the combustion chambers and valves. Magnetized fuel appears to combine more completely with oxygen in the combustion chamber. The result is a more complete burn, producing a more efficient use of fuel and a reduction in hydrocarbon emissions.*

The benefits are increased power, enhanced fuel economy, lower costs and a cleaner environment.

***EMISSION TEST RESULTS - COMPLETED IN OCT. 2001**

Though the Magna-Flow is designed for the magnetic treatment of all fluids including water and fuels, we decided to utilize the strict government supervised, Ontario, Drive Clean, Vehicle Emissions Inspection Program, to prove the efficacy of the design on fuel. The test results from testing 4 vehicles before and after (a 2 to 3 month period) are as follows:

- HC PPM** -Average reduction 15 %
- CO%** -Average reduction 24 %
- NO PPM** -Average reduction 24.5%

Explanation of terms;

- HC PPM - Hydro Carbons in parts per million
- CO% - Carbon Monoxide in percentage
- NO PPM - Nitric Oxide in parts per million
- PPM - Parts per million

These tests proved the MAGNA-FLOW dramatically reduced hydrocarbon emissions in automobile engines.

BENEFITS

The resulting efficiencies of cleaner burning fuel and more complete combustion and its relationship to fuel consumption are obvious.

APPLICATION POSSIBILITIES

Using the Magna-Flow in individual or multiple sets, it is possible to apply any selection of polarities and resonance factors for the treatment of both fluids and gasses. The Magna-Flow unit can be applied on pipe sizes from 1/4" up to and exceeding, 4" in diameter.

The instructions, which accompany the Magna-Flow, detail standard polarity layouts for the treatment of water used for de-scaling, irrigation, to enhance plant and animal growth, and to provide North pole, magnetic drinking water.

Various layouts and configurations are provided for treating fuels for internal combustion engines and for natural gas and propane appliances.



Kenworth Diesel 3306



2003 Infiniti G35



2000 Dodge Van



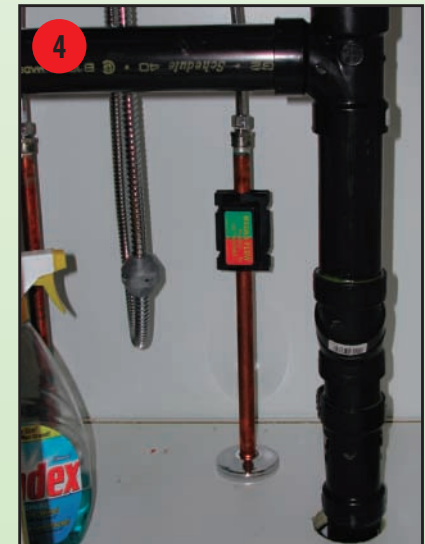
1



2



3



4

Typical Residential system requires 3 to 4 sets of Magna-Flow

- 1** Incoming cold water line installation
- 2** Incoming cold water line with tandem installation
- 3** Hot water line installation
- 4** Under sink drinking water installation

Satisfaction Guarantee—If not fully satisfied the Magna-Flow may be returned within 180 days (6 Months) from purchase for a full refund, less 15% restocking fee, shipping & handling. Magna-Pak Inc. further warrants the quality of materials and workmanship for ten (10) full years.

MAGNA-FLOW

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1-800-361-1387

www.magnapak.com