

Magnum Accelerator

In-line, motionless chemical mixer



APPLICATIONS

Chemical and water mixing for treatment of:

- Rapid oxidation of iron, manganese and hydrogen sulfide
- pH and corrosion control
- Tannin removal
- Blending polymers and flocculants
- Disinfection
- Reverse osmosis pre- and post-treatment
- Boilers and cooling towers
- Waste water treatment
- Pools, spas and fountains
- Car washes. Soap mixing
- Agriculture. Mixing fertilizers and chemicals
- Mass transfer improvement of ozone and air injection
- Destruction of polyphosphates
- Any chemical feed application

BENEFITS

The **Magnum Accelerator™** has totally revolutionized the chemical feeder portion of our industry. Operating in-line and continuously with **NO moving parts**, the mixer will instantaneously and **completely mix any combination of gas or liquid with the water stream**. The unique baffle design continues to redivide and recombine the streams as it passes through, generating a lot of turbulence, ensuring complete mixing with no energy, moving parts and very low pressure loss.



Each unit is **compact** for **easy installation** and constructed of **durable** PVC for **long life**. Some models include an **injection port** for easier installation. In most cases, costly retention tanks are eliminated. However, the Magnum will ensure an effective application if one is used. Not only is the Magnum **economical**, it helps to **reduce cost** of supplemental equipment, normally required.

**Installed in thousands of homes and businesses since 1989*

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Commercial Sizes and Special Configurations

Special Applications:

- ✓ Special materials are available for applications with higher temps, aggressive chemicals, high pressures, etc.
- ✓ Multiple injection ports are available on some smaller and all larger mixers for simultaneous multiple chemical feeds
- ✓ Larger sizes available for higher flow rates. We are capable of providing mixers for applications up to 12" in diameter
- ✓ Custom lengths in even the tightest space can be configured on larger units, as well as different ends such as flanged for ease of installation

Results using a static mixer

Magnum Accelerators are designed for household and commercial chemical feed applications producing maximum effect. They are easy to install and will help save time, money, and space.

Because different chemicals can have different densities compared to water, it is possible for the two not to completely mix. Even with retention tanks, they can separate from the water to some degree.



Without a mixer

Under the same water flow velocity using a static mixer, the chemical will completely and rapidly mix with the water stream as illustrated in these pictures. As a result, a contact tank may not be required.



With a mixer

Dissolving gases is another benefit to using a static mixer. This can be used to maximize the effect of dissolving ozone or air, even with an injector. Splitting the gas bubbles multiple times increases the surface area and allows more gas to dissolve.



Dissolving gases

SPECIFICATIONS

MODEL #	FLOW RATE(GPM)	IN/OUT SIZE	MAX TEMP/PRESS	INJECTION PORT	DIMENSIONS
ES-MA-1	2 - 20 GPM	¾" FPT	110°F/100 PSI	½"	2" x 12 1/2"
ES-MA-4	3 - 25 GPM	1" FPT	110°F/100 PSI	½"	2" x 12 1/2"
ES-MA-6	5 - 30 GPM	1¼" Slip	110°F/100 PSI	N/A	2" x 11"
ES-MA-7	20 - 85 GPM	2" Unions	110°F/100 PSI	N/A	4 1/8" X 14"

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