



WASTEWATER AIRJECTION® SYSTEMS

For Wastewater
Aeration and
Odor Control

*World Leader
in Mixing and
Contacting
Technologies*

Contact us today.

Mazzei Injector Company, LLC

500 Rooster Drive

Bakersfield, California 93307-9555

TEL 661-363-6500

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www.mazzei.net



Mazzei's Wastewater AirJection® System...The Efficient, Low Cost, Quiet Solution.

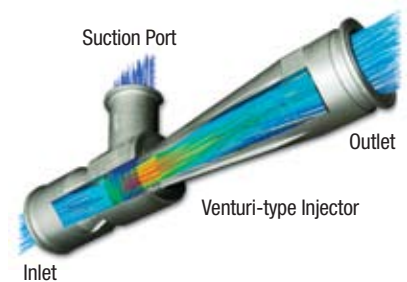
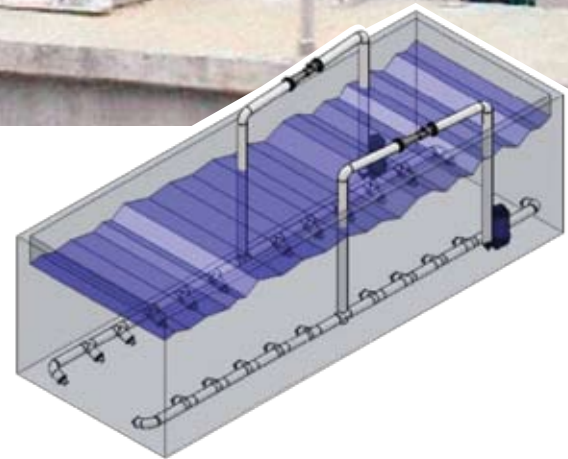
Wastewater is circulated through patented Mazzei® Injectors, creating a vacuum to draw air into the wastewater. The aerated process water is discharged back into the tank through patented Mazzei® nozzles for additional oxygen transfer and mixing.

Benefits

- ▶ Energy efficient
- ▶ Quiet operation – no blowers or compressors
- ▶ Low system maintenance
- ▶ No maximum depth limitations
- ▶ Low operating pressure
- ▶ Low installation cost
- ▶ SOTR tested per ANSI/ASCE 2-91
- ▶ Validated process water efficiencies

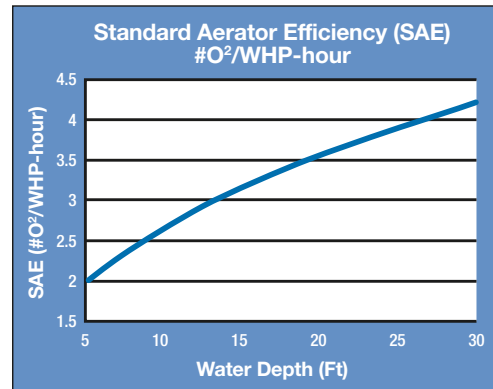
Applications

- ▶ BOD/TOC reduction
- ▶ Odor control
- ▶ Aeration basin
- ▶ Activated sludge digester
- ▶ Sewer main aeration
- ▶ Ponds or lagoons
- ▶ Post-treatment aeration
- ▶ Air or oxygen injection

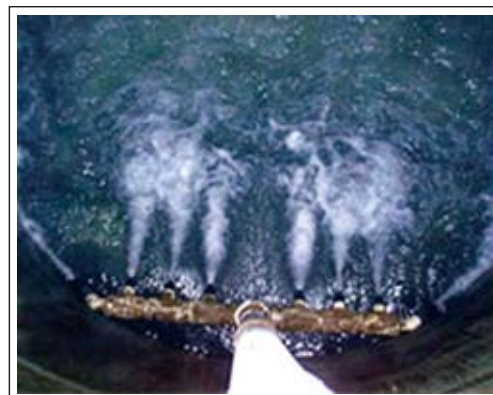


**Easily Adapts For
Multiple Applications**

- ▶ Easily installed in any aeration tank or basin
- ▶ Perfect for supplemental D.O. or to replace existing coarse bubble diffusion systems
- ▶ More oxygen transferred per horsepower than other aeration technologies as basin depths increase



Aerator efficiency increases with greater depths



Industrial Wastewater Systems

Calculations based on BOD Reduction from 1500 to 200, MLVSS=4000, Water Depth=20 ft.

Water Flow (GPD)	Actual O ₂ Trans (lbs O ₂ /hr)	Power (Water HP)	Circulation Rate (GPM)	Air Suction (SCFM)	Injector(s) x Model Number	Nozzle Manifold
10,000	4.52	2.4	223	20	1 x 4091	N45-2
50,000	13.56	7.2	670	60	3 x 4091	N45-6
100,000	31.65	16.8	1563	140	7 x 4091	N45-14
200,000	64.61	33.6	3118	300	3 x 8095	N60-12
350,000	95.15	54.4	5051	400	2 x 12050	N60-16

Municipal Wastewater Systems

Calculations based on BOD Reduction from 350 to 10, MLVSS=2000, Water Depth=20 ft.

Water Flow (MGD)	Actual O ₂ Trans (lbs O ₂ /hr)	Power (Water HP)	Circulation Rate (GPM)	Air Suction (SCFM)	Injector(s) x Model Number	Nozzle Manifold
1/2	43.1	22.4	2078	200	2 x 8095	N60-4
1	95.1	54.4	5051	400	2 x 12050	N60-16
2	110.3	108.8	10101	600	3 x 12050	N60-24
5	428.2	244.8	22728	1800	9 x 12050	N60-72



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