



MAZZEI PIPELINE FLASH REACTOR™

Rapid Ozone
Mass Transfer
in a Small
Footprint



Contact us today.

Mazzei Injector Company LLC

500 Rooster Drive

Bakersfield, California 93307-9555

TEL 661-363-6500

FAX 661-363-7500

www.mazzei.net



Optimum Ozone Transfer

The Pipeline Flash Reactor™ (PFR) utilizes patented technology supported by extensive research at leading universities. Providing high ozone mass transfer in a small footprint design, the PFR is ideal for municipal plant flows ranging from 2 to more than 200 MGD.

- ▶ Fabricated in 316L Stainless Steel
- ▶ Mass transfer efficiencies meet or exceed 95%
- ▶ Increases CT credits of existing ozone contacting basins
- ▶ Reduces basin size requirements for new ozone systems
- ▶ Custom design to meet plant performance requirements
- ▶ Consistent full flow gas mixing with minimal pressure loss at all plant flow conditions
- ▶ Eliminates high maintenance costs associated with fine bubble diffusion basins

How the System Works

A small portion of the main pipe water flow is diverted into a sidestream. Using the patented and innovative Mazzei venturi injectors, ozone gas is injected into the sidestream. This two-phase flow is then sent to the Pipeline Flash Reactor. The Pipeline Flash Reactor utilizes high velocity mixing to transfer the ozone enriched sidestream into the bulk water flow. Ozone mass transfer occurs within seconds and eliminates the need for additional basin gas contacting.

The result is clean, pure water ready for finishing and distribution.

To learn more about the Mazzei PFR, view our [PFR animation](#)

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