



MAZZEI PIPELINE FLASH REACTOR™

More efficient
wastewater aeration
system.
Eliminates the
need for basins.



How the System Works

Municipal wastewater plants employ multiple treatment methods to increase dissolved oxygen prior to final discharge into receiving waters. Mazzei Injector's Pipeline Flash Reactor™ (PFR) provides rapid oxygen transfer within a compact footprint. A small sidestream is passed through a Mazzei injector to draw in ambient air. The aerated sidestream is then delivered to the Pipeline Flash Reactor where it aggressively mixes with the main flow, uniformly transferring the oxygen in the effluent pipeline. This eliminates the need for additional tanks or basins required by other technologies. The Pipeline Flash Reactor can also be utilized with oxygen feed gas for systems with high dissolved oxygen requirements.

Efficient Wastewater Mixing

- ▶ Fabricated in 316L Stainless Steel
- ▶ Rapid oxygen transfer in a small footprint design
- ▶ Increases dissolved oxygen distribution and uniformity
- ▶ Eliminates need for basins for new or retrofit systems
- ▶ Custom design to meet plant performance requirements
- ▶ Eliminates high maintenance cost associated with blowers and bubble diffusion basins

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

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

© 2019 Mazzei Injector Company, LLC. MAZZEI®, MIC®, AIRJECTION®, and TRU-BLEND® are registered trademarks of Mazzei Injector Corporation, as is the trade dress of the Mazzei injector under United States Registration No. 3170225. Mazzei products, and processes utilizing those products, are protected under various U.S. and non-U.S. patents and patents pending, including U.S. Patent Nos. 9,744,602; 9,744,502; 9,643,135; 9,643,134; 7,779,664; 7,040,839; 6,890,126; 6,866,703; 6,730,214; 6,193,893.