

SMARTER AIR. STRONGER WATER

Designed around your water chemistry and pit dynamics to deliver real, measurable performance.

OVERVIEW

Redeemer Resources engineers high-efficiency pond aeration systems using Canadian Pond Bubble Tubing® linear micro-diffusers to maximize oxygen transfer and circulation. Through computer modeling, we design systems that optimize bubble contact time and create controlled “air curtain” flow patterns to increase residence time, improve ORP response, and enhance oxidation performance. For higher-demand applications, our OctoAir industrial diffuser platforms deliver substantial air volume in a compact footprint — concentrating oxygen transfer power where it’s needed most while maintaining durability and ease of deployment.

BUBBLE TUBING

- 1/2", 3/4", 1", and 1 1/4" applications
- supplied in weighted, non-weighted, or cabled formats and in custom lengths for specific basin layouts
- flexible, kink-resistant, and designed to produce micro-bubbles
- Ability to directly inject chemicals into the airstream

OCTOAIR INDUSTRIAL DIFFUSERS

- industrial-grade aeration platforms that incorporate Bubble Tubing® within a stainless-steel frame for larger aeration/deicing applications.
- OctoAir-10 – uses ~100 ft of Bubble Tubing® for moderate airflow
- OctoAir-60 – uses ~300 ft of 3/4" Bubble Tubing®, capable of higher air volumes and deeper applications
- corrosion-resistant, robust for industrial use, and simple to install and maintain, with adjustable legs and integrated support structure
- Ability to directly inject chemicals into the airstream



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BENEFITS

- Linear diffuser layout delivers uniform oxygen distribution across the entire pit, eliminating dead zones common with point diffusers
- Fine micro-bubbles increase gas-liquid surface area, maximizing dissolved oxygen transfer and oxidation performance
- Designed to promote full water column circulation and destratification without disturbing settled solids
- No moving parts in the water — low maintenance, high reliability, long service life
- Effective in shallow or irregularly shaped pits where traditional diffuser systems underperform
- Computer-modeled system design allows us to predict oxygen transfer rates, bubble rise velocity, and water-to-air contact time
- We engineer systems to optimize residence time and reaction efficiency, not just airflow volume
- Ability to create an engineered “air curtain” that guides hydraulic flow through the pit — increasing contact time, improving ORP response, and enhancing iron oxidation and gas stripping
- Integrated with field chemistry monitoring to provide data-driven performance optimization

