Applications

- Groundwater /wastewater treatment
- Radon removal
- Removal of dissolved chlorinated organic compounds from water (TCE, PCE, TCA, DCA…)
- Removal of gasoline range organics (BTEX compounds), DRO & other hydrocarbons from water (including MTBE)
- Iron oxidation for subsequent filtration
- H2S Removal
- Carbon dioxide removal
- Methane removal
- THM’s

Features & Specifications *(Patent pending)*

- 304 Stainless steel welded tank construction
- Clearwell for pump out or gravity drain discharge
- (2) 304 Stainless steel fouling-resistant coarse bubble diffusers per chamber with PVC risers and unions above the water line for easy removal
- Centrifugal pressure blower operating under forced or induced draft, welded steel volute and stand, aluminum wheel, special coatings available
- Full removable top cover for easy access to entire cross section, D-ring buna-N cover gasket
- Over and under weirs and baffles to distribute water across each chamber for maximum residence time, aeration and removal efficiency
- Stainless steel hermetically sealed float rod assembly (single or multiple floats for pump control)
- 6” High steel skid125 lb flanged influent & effluent connections with conical gussets
- Flanged air inlet with diffuser for distribution
- Steel skid with C6x8.2 joists and frame members continuously welded at the ends, 3/16” steel deck with 1” fillet welds every 12” on center, fork pockets
- PVC air inlet transition piping with flexible coupling for vibration isolation
- Polypropylene demister on vapor discharge to remove 99% 0f 10 micron and larger droplets
- ¾” Drain valves for sump and aeration chambers
- Internal PVC air distributor header
- Clearwell for pumping directly from unit
- 2” PVC Sump level site glass with flange connections for easy removal
Diffused Tank Aerator Removal Efficiency of Benzene at 55°F water temperature, limited to 25% of solubility limit

Options

- Epoxy painted steel, fiberglass reinforced plastic construction or welded polypropylene construction
- Larger clearwell for more pump down volume
- High flow units up to 300 gpm
- Sound enclosure with urethane sound insulation to reduce sound level 10-15 dBA at 3
- Centrifugal discharge pump & level controls
- Heat trace or immersion heaters for classified or non-classified electrical areas for freeze protection
- Induced draft blower configuration for humidity
- R-5 insulation with jacket, (FRP or aluminum jacket)
- Custom control panel to control blower, pump and other equipment if required
- Process duct heater to lower humidity in off gas vapor before vapor GAC treatment
- Off gas ducting, FRP, PVC, coated or hot dipped galvanized steel construction
- Enclosures or trailer for freeze protection or mobility
- Flow, pressure, level & temperature gages or transmitters