OXYGEN INJECTION SYSTEMS

Stimulates Biodegradation Under Aerobic Conditions

The Matrix Oxygen Injection System produces oxygen gas on-site for pulse injection into groundwater contaminant plumes at controlled rates or volumes. The oxygen is dispersed into the saturated zone where it dissolves at high transfer efficiency resulting in saturation levels up to 40 mg/L. Applied at more than 300 remediation sites over 15 years.

- Robust, low maintenance system generates a safe supply of oxygen on site, eliminating any concerns about oxygen storage or transport
- Sustainable high levels of dissolved oxygen prevents contaminant rebound and biodegrades MTBE without TBA accumulation
- Dispersion of oxygen with control of radius of influence and oxygen mass transfer
- Injection permits generally not required because oxygen is produced with ambient air
- Air permits and vapor control not required

Matrix provides trailer, skid & building mounted systems.

- MET Laboratories certified systems built to NEC General Purpose standards
- MET certified to UL508A standard Direct Logic PLC control system
- Oxygen flow/volume control to each injection point
- Adjustable frequency and duration of injections
- Pressure swing adsorption oxygen generator and rotary screw compressor
- Rotary scroll booster pump for deep injection
- Safe low volume/low pressure oxygen storage
- Components are cleaned for oxygen service
- Low sound attenuating enclosures
- Wireless remote access with call out alarms and the ability to monitor and restart from your laptop or handheld device

Matrix Oxygen Injection Systems are available for purchase, rental or lease.
Trailer Mounted Rental Systems

Nationwide rental fleet includes pilot test systems configured for testing multiple injection points under a wide range of operating conditions as well as full scale systems for operation on 6, 12, 16 or 32 injection points.

Key Aspects of Rental Systems

- Affordable rental rates
- Strategically located nationwide fleet results in low mobilization cost & quick delivery
- Flexible short term rental and long term lease agreements
- 230V/120V single-phase power requirements
- No recurring fees; license to operate included with system
- Engineering and technical support provided
- Detailed specifications, schematics, and AutoCAD drawings available
- Pilot test work plan and groundwater monitoring data sheets provided

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environmental solutions for a cleaner world