

Soil & Groundwater Remediation

Bio-Venting/Air Injection

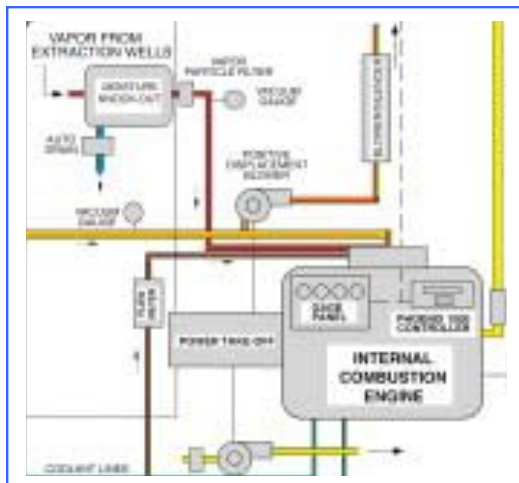
RSI's system is also used for Bio-Venting, which involves the flow of fresh air through the vadose zone to increase oxygen content and accelerate bioremediation. In Air Injection mode, heated air from the blowers, or compressors, can be routed via reinjection wells.

The above modules can be combined with the spray aeration system, the ICE and/or catalytic oxidizers to completely remove and destroy all of the contaminants. The ICE provides power to all components and in the case of petroleum hydrocarbon contamination, the extracted contaminants are used as fuel by the ICE.

Natural gas or propane may be needed as supplemental fuel if the amount of fuel extracted is below the ICE requirements. RSI's system's diversity provides truly innovative environmental solutions to the most challenging site conditions.

U.S. Patent: 4,846,134; 4,979,886

Canadian Patent: 1,287,805



Note: Total air throughput remains constant at set RPM and manifold vacuum. Engine manifold vacuum is a function of rpm, load, timing, and air-fuel ratio. Typically systems are operated at high RPM, minimal load, advanced timing, and at or near stoichiometric air-fuel ratio, which results in high engine manifold vacuum.

