

Air Sparge Systems

Geotech Rotary Claw Compressor Packages

The Geotech Air Sparge System is designed to provide positive air pressure into the subsurface thus aiding the volatilization and biodegradation process associated with soil vapor extraction technology.

Geotech rotary claw compressor systems are custom designed to meet your air flow and air pressure requirements where rotary lobe and rotary vane systems can not economically meet the discharge flow/pressure requirements, for example over 30 cfm (.85 cmm) and pressure ranges of 15-30 psig (1-2 bar).

FEATURES

- TEFC motor
- Heavy duty rotary claw compressor
- Compact size
- Low maintenance

GENERAL PRINCIPLE

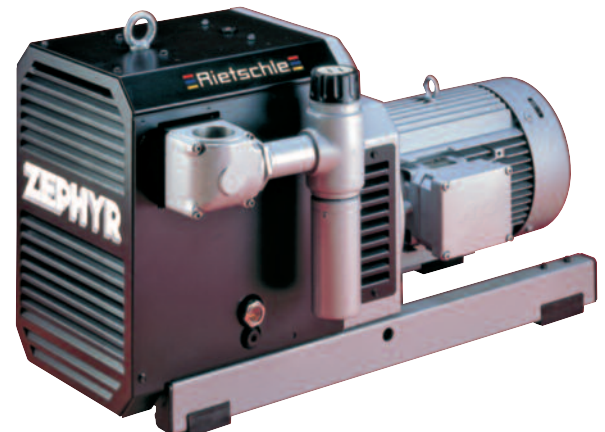
The Rietschle Zephyr Rotary Claw utilizes two nearly symmetrical, non-contacting claw rotors that sweep the inlet of the compressor creating internal compression without friction or lubrication, creating two discharge strokes per revolution. The dry, contactless design eliminates pollution, product contamination, and other environmental issues.

APPLICATIONS

By injecting air directly into the groundwater, the Geotech Air Sparge System remediates groundwater by volatilizing contaminants and enhancing biodegradation. Contaminants are removed from groundwater by physical contact with air and are carried up into the unsaturated zone (i.e., soil). As the contaminants move into the soil, a Geotech provided soil vapor extraction system can be used to remove vapors from the subsurface.

SPECIFICATIONS

Model	Horsepower Range	Max Flow CFM	Max Pressure PSIG
DLR 60	5	40	29.0
DLR 100	5, 7.5, 10	70.6	11.6, 23.5, 31.9
DLR 150	10, 15	100	17.0, 29.0
DLR 301	15, 20, 25	190	14.5, 26.0, 32.0
DLR 401	25, 30	272	23.0, 29.0
DLR 501	30, 40	353	20.0, 29.0



OPTIONS

- Explosion proof motor
- Pressure switches
- Temperature gauges
- Temperature switches
- Pressure relief valves
- Discharge check valve
- CFM gauges
- Control panels – to integrate with soil vapor extraction systems and other equipment

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