

Air Sparge Systems

Geotech Rotary Vane Blower 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.

FEATURES

- Rotary vane compressor with coupled explosion-proof motor
- Delivery of oil-free air into the subsurface
- Pulse-free air flow
- Heavy-duty filters
- Inlet particulate filter
- TEFC motors

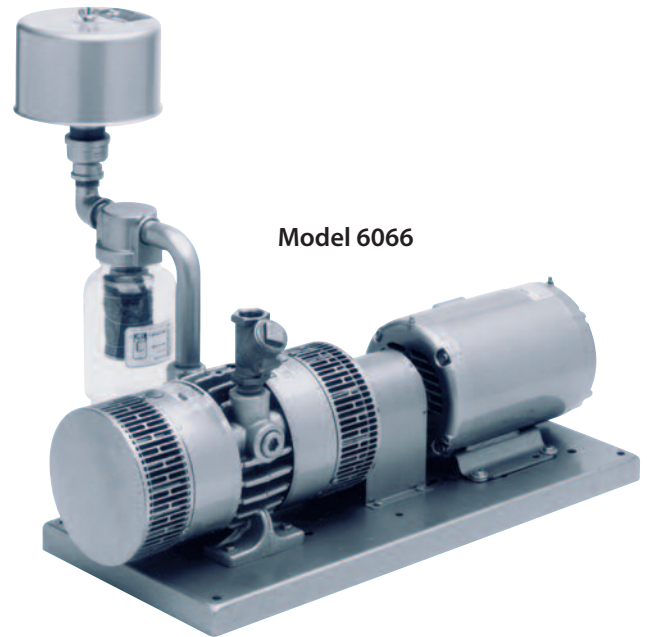
OPTIONS

- XP motors available
- Pressure gauges/switches
- Temperature gauges/switches
- Pressure relief valves
- Discharge check valve
- CFM meter
- Control panels – to integrate with soil vapor extraction systems and other equipment

OPERATION

Pumping action is produced by a series of sliding, flat vanes as they rotate in a cylindrical housing. An eccentrically mounted rotor turns and the individual vanes slide in and out of their slots by centrifugal and pressure loading forces. This creates a series of air compartments of unequal volume against the wall of the housing. These compartments get larger during the suction part of the cycle, creating vacuum at the intake port and smaller during the discharge portion of the cycle, creating pressure at the exhaust port.

The vacuum and pressure flows are free of pulsation because the inlet and outlet ports do not have valves and the air is moved continuously rather than intermittently.



APPLICATION

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 & Description	Max Flow (CFM)	Max Pressure (PSIG)
6066-P122 EM7144T-C	Pump w/5 hp explosion-proof motor	55	15
6066-P122A EM7144T-C	Pump w/5 hp explosion-proof motor	37	20
6066-P122A EM7147T-C	Pump w/7.5 hp explosion-proof motor	55	20
1290-P110 EM710T-C	Pump w/10 hp explosion-proof motor	112	15
1290-P110A EM7054T-C	Pump w/15 hp explosion-proof motor	112	20

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