

# Air Sparge System

## Geotech Positive Displacement 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.

Geotech positive displacement blower systems are custom designed to meet your air flow and air pressure requirements where pressure ranges are within 15 psig (1 bar) and flow rates up to 2000 cfm (56.63 cmm).

### FEATURES

- Positive displacement rotary lobe blower
- Inlet air filter
- Discharge silencer
- TEFC motor
- Horizontal inlet silencer
- V-Belt drive system
- OSHA belt drive
- Motor slide base
- Interconnecting fittings
- Discharge pressure gauge
- Pressure relief valve
- Discharge temperature gauge
- Discharge check valve

### OPERATION

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.

### OPTIONS

- High pressure switch
- High temperature switch
- XP motors
- Control panels
- CFM gauges



### SPECIFICATIONS

Model	Horsepower	Blower RPM	Flow Range CFM (CMM)	Pressure Range PSIG (Bar)
2LP	3-7.5	4750	144-124 (4-3.5)	2-7 (.14-.48)
3LP	5-15	3240	303-273 (8.6-7.7)	2-7 (.14-.48)
4LP	5-20	3240	504-464 (14.3-13.1)	2-7 (.14-.48)
5LP	7.5-40	2565	835-781 (23.6-22.1)	2-7 (.14-.48)
6LP	7.5-50	2115	1416-1326 (40.1-37.5)	2-7 (.14-.48)
7LP	25-75	1845	2085-1991 (59-56.4)	2-7 (.14-.48)
2MP	3-7.5	4750	58-51 (1.6-1.4)	7-12 (.48-.83)
3MP	3-15	3240	153-140 (4.3-4)	7-12 (.48-.83)
4MP	5-20	3240	316-304 (8.9-8.6)	7-10 (.48-.69)
5MP	7.5-40	2565	460-431 (13-12.2)	7-12 (.48-.83)
6MP	10-60	2115	692-643 (19.6-18.2)	7-14 (.48-.96)
7MP	15-75	1845	1186-1153 (33.6-32.6)	7-10 (.48-.69)
3HP	3-15	3240	112-96 (3.2-2.7)	7-15 (.48-1)
4HP	5-20	3240	182-162 (5.1-4.6)	7-15 (.48-1)
5HP	5-30	2565	303-277 (8.6-7.8)	7-15 (.48-1)
6HP	7.5-40	2115	401-364 (11.4-10.3)	7-15 (.48-1)
7HP	7.5-50	1845	579-533 (16.4-15.1)	7-15 (.48-1)

Flow rates and pressures are based on sea level altitude.

Call Geotech technical sales representatives for consultation on proper sizing for your site specific application.

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