

Testimonial



According to Aaron Blow, Assistant Director Mid-Atlantic Utility Locating L.L.C., Chantilly, VA (703-378-0100) the AIR-VAC is a perfect compliment to their larger air-vacuum excavation truck. In combination with the AIR-SPADE® Series 2000 air excavation tool and an air compressor, the AIR-VAC is ideal for utility locating and potholing where they cannot take their big unit. In the first month with the unit they dug over 50 holes and were very satisfied with the unit's performance.



Concept Engineering Group Inc.
15 Plum Street
Verona, PA 15147-2100

AIR-VAC Air Powered Vacuum Product Information and Pricing



CONCEPT ENGINEERING GROUP, INC.

The air excavation experts

15 Plum Street
Verona, PA 15147
Tel: 412-826-8800 Fax: 412-826-8601
Email: ceg@air-spade.com

www.air-spade.com

Features

- Holds enough spoil to dig a 12 inch diameter pot hole over 6 ft deep
- Readily vacuums 1 to 2 cubic feet per minute of materials such as dirt, sand, gravel, rocks, or water
- Fits through 32 inch wide gates or doors for access to backyards or indoors
- Durable powder coated steel tank
- Dual handles and 13 inch pneumatic tires are placed to allow balanced movement, even when full of spoil
- Replaceable UHMW wear plates at dirt impact points
- Large dump door swings open to allow easy emptying back into hole
- Injector is removable for easy transportation and storage
- Range of suction hose sizes depending on nozzle size and compressed air available (see Table)

Benefits

- Powered by standard portable air compressor; i.e. does not require separate engine and expensive roots blower
- Superior performance where it counts due to use of patented supersonic nozzle in injector
- Dust free operation with washable polyester filter that has high loading capacity
- High suction velocity in hose moves material readily even with long hoses.
- Exhaust silencer provides quiet operation with air and noise directed upward away from personnel
- Efficient performance without dangerously high vacuum levels

The AIR-VAC and AIR-SPADE® form a powerful safe and dry excavation system

How it works

Mach 2 air jet from patented supersonic nozzle flows through stainless steel injector creating powerful combination of vacuum in tank and high transport velocity in suction hose. The high velocity air stream into and through the hose transports the material effectively.



Specifications

Overall size	30 1/2" w by 41 1/2" d by 107" h
Tank only	24" diameter by 58" high
Tank Volume	14 cubic feet (100 gal)
Total Weight	220 lbs
Tank only	160 lbs
Peak suction	9 to 12 in Hg
Hose velocity	9,000 to 11,000 feet per minute
Spoil capacity	1/4 cubic yard
Filter efficiency	99.5% at 0.2 to 2 micron
Noise	Low 80's dBA at 7m

Configurations

Suction hose diameter determines injector and compressed air requirements for peak performance as shown below. Air Vac tank accommodates all hose sizes and injectors.

Hose Diameter (in)	2 1/2	3	4
Air Required (scfm at 90 psig)	150	225	330

Standard AIR-VAC includes:

- AIR-VAC tank with filter and vacuum gauge
- Injector with supersonic nozzle, exhaust silencer, pressure gauge, ball valve, and Air King connector
- 15 foot of clear vacuum hose with metal slip-on connector and 5 foot suction tube

Prices

Standard AIR VAC with:

2 1/2 inch hose	\$ 7,995
3 inch hose	\$ 8,295
4 inch hose	\$ 8,595

Options

- Replacement air filter - \$ 120
- Replacement lid and door gaskets – \$150
- 10 ft lightweight air hose – \$ 65
- Additional vacuum hose – Call for prices

The AIR-SPADE® Industrial Kit is the perfect companion to the AIR-VAC. At \$2015.00 it includes the Series 2000 hand tool, 45° angle adapter, 10 foot lightweight hose, one extension barrel, and storage case with lock.