

Direct Push Analytical Corp.

Vacuum Excavation System-Soft Dig Technology



The vacuum excavation system, or air knife is used for potholing, daylighting, or otherwise making a hole in the ground in the safest, most time efficient way possible. This unit pictured on the left has been used effectively at gas stations, where health and safety concerns often require its use, consists of the equipment that is pictured to the left, a truck, and a trailer mounted air compressor, making it one of, if not the most, compact vacuum excavation systems available on the market today. The unit is equipped with 5, 7, and 9 foot lances and is capable of making a hole up to 9 feet deep. The equipment pictured is supplied by up to 100 feet of air supply line, making indoor work, if necessary, a breeze where traditional units would have great difficulty working. Another advantage of this unit is that the spoils are kept adjacent to the hole. Call today for a free price quote!

Figure 1: Vacuum Excavation System

877-372-1937

	Our System	Truck Vac Unit	Trailer Mud Unit
Size	Small. Small enough to fit in narrow alleys, on roadway medians, and other tight spots. Footprint is roughly 2' x 5' .	Large. Typical platform is a one ton or larger truck. Footprint is roughly 8' x 22'.	Medium to Large. Usually needs a one ton truck or larger to transport. Footprint (including truck) is 8' x 37'.
Weight	Under 160 lbs , fully assembled including hoses.	20,000 lbs or more. Requires special vehicle and operator licensing.	2,500 lbs or more.
Portability	Excellent. Easily handled by one person.	Poor. Must stay on paved or highly compacted surfaces, and may cause site damage. Profile (height and width) limits access to tight spots.	Poor. Same restrictions as Truck Vac Unit. Trailers are difficult to maneuver.
Applications	Dry soil, wet soil, water, mud and aggregate.	Dry soil, wet soil, water, mud and aggregate.	Water and mud.
Performance	850 cfm vacuum flow. 22" Hg vacuum lift (25' water lift)	700 - 850 cfm vacuum flow. 14" - 16" Hg vacuum lift (16' - 18' water lift), 4" vacuum inlet	175-400 cfm vacuum flow. 14" - 20" Hg vacuum lift (16' - 22' water lift), 2" or 3" vacuum inlet
Reach	Up to 1000 feet from the air compressor. As a bonus, the spoils stay close to the excavation.	Less than 20 feet from the hopper. Also, spoils usually wind up away from the excavation, making backfilling cumbersome.	50 to 100 feet from collection tank. Also, spoils usually wind up away from the excavation, making backfilling cumbersome.



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