

The Advantages Of Air-Vacuum Excavation

Saving Fresh Water

Water is a precious resource and should not be abused. By not using water in the daylighting process we save huge amounts of fresh water and the time needed to retrieve it. Mud-less daylighting maintains secure footing around the excavation area, reducing the potential for slipping.



Once the mud has been vacuum-extracted, it becomes difficult to dispose of. The water is difficult to recover and could be contaminated. Contaminated water can also increase the potential for leaching. It often must be transported to a waste handling facility to be disposed of, creating more costs in trucking and handling. If dumped in an open area, the mud dries into a rock hard spill.

Air Is Non-Conductive

The Air-spade digging tool has a **insolated fiberglass barrel** so the use of bonding mats are not required. It's engineered design also prevents the formation of static electricity. Dually safe.

Air's Gentle Touch

The supersonic effect of the air leaving the wand converts the compressed air into digging power, yet it will not damage **sensitive pipe coatings, utilities** or even **tree roots**. We have done tests on different items with suprizing results.

Saves Time

The use of an AIR-VAC saves time by not having to leave the job site to dump the mud slurry or to get more water. This means that we have more **on site** working time. The collected **soil remains dry** for fast effective backfilling or disposal. **We can even separate top soil and sub soils.** If excavating in contaminated soil, soil can dump into a bermed area, containers or mini-bulk bag to be treated or disposed of at a later time.

Limitations of Air VAC Excavation

If the soil is too wet from either precipitation or natural ground water, it becomes difficult to vacuum up and may not be suitable to dump for backfilling. The use of air is a DRY method. If water is present, then the use of water may be needed to excavate it. Our units are dual purpose for this matter.