

Pothole *Aerodynamically!*



VACMASTERS SYSTEM 3000

AIR-VACUUM EXCAVATION



VACMASTERS SYSTEM 3000

Pothole Safely, Efficiently, Economically



Affordable power on a compact, maneuverable, heavy-duty platform.

VACMASTERS, the leader in air-vacuum excavation, has pioneered the use of air technology for potholing. Compressed air packs all the power of water yet is much safer, cleaner, faster, and easier to use. Unlike water, air won't cut buried utilities or conduct current. It flows around the lines but explodes the surrounding soil from within (see illustration) by filling the earth's minute fissures with high-pressure air delivered from our own proprietary Air-Tec™ nozzle. Since the soil remains dry, vacuuming is easy and backfilling can be immediate. There is no mud to haul off and dispose of and clean up is fast.

All soils contain minute cracks and fissures.



VACMASTERS supersonic air stream, delivered through its Air-Tec™ nozzle at 180 psi, is forced into these microscopic Pockets.



The crevices explode from the energy built-up from the forced compressed air, crumbling the soil and leaving it dry for easy vacuuming and backfilling.



SYSTEM 3000 Combines Versatility with Efficiency.

Whether you are upgrading from water to air, or replacing one of our earlier systems with the SYSTEM 3000's latest advancements in air-vacuum technology, you will find this mid-sized unit perfect for potholing in a variety of applications. It's neither too big for those small, single potholing jobs, nor too small to do multiple holes in a hurry. And there's high-pressure water on board just in case you run into sticky, wet clay or hard caliche. 95% of



the time you'll rely on air to get the job done quickly, economically, and safely.

A Mid-priced System with Big-time Power.

Pound for pound, the SYSTEM 3000 is a dynamo. It does what you want it to do and goes where you need to go ... on small side streets, down alleys, over back lots and it's easy to jockey into position on its heavy-duty one-ton chassis. The SYSTEM 3000 digs quietly with air at 180 psi. On average, you can excavate a 12" x 12" x 5' deep pothole in 7-8 minutes. The SYSTEM 3000 packs a powerful punch on a highly maneuverable platform.

Potholing with Air Allows You to Reduce Costs.

- Digs faster than water in most soils
- Collected spoils remain dry for fast, efficient backfilling
- Eliminates mud disposal problems
- Safer for utilities and operator
- Air won't damage roadbase

Join the VACMASTERS Air Force.

More than 250 companies around the country and abroad appreciate the benefits of potholing with air and use one of VACMASTERS Air-Vacuum Excavation Systems. If you are still wallowing in the mud, isn't it time for you to get up to speed and start potholing Airodynamically?

There's a VACMASTERS System* designed to do your jobs, big or small.

SYSTEM 4000 – Largest and most powerful, digs in all soil conditions

SYSTEM 3000 – Powerful, compact and maneuverable

SYSTEM 1000 – Affordable, trailer, truck, or skid mounted

* All have water on board as a backup

To see VACMASTERS air in action, view our demo at www.vacmasters.com or for more information, call 1-800-466-7825 or e-mail us.

VACMASTERS

The Leader in Air-Vacuum Excavation

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SYSTEM 3000 Benefits

SELECTABLE AIR OR WATER

- Select the digging medium best suited to soil conditions.

SINGLE-ENGINE DESIGN

- A powerful, reliable John Deere turbo-charged diesel engine drives all systems: vacuum, air and water.
- Only one engine to operate and maintain.

SELF-PURGING, WASHABLE FILTERS

- Powerful reverse flow air quickly cleans the filter.
- For additional cleaning simply remove, clean and re-install.
- Less downtime means more time on the job.

HYDRAULIC-POWERED DUMPING

- Quick, easy emptying of the large 200-gallon spoils tank

SUPERVISORY CONTROL PANEL

- Automatic monitoring of all systems with auto-shutdown allows a two-man crew to operate the system.

REMOTE OPERATION

- Operates up to 200 feet away from the truck when access to areas is difficult.

WET OR DRY OPERATION

- No need to change filters if wet conditions are encountered.

HIGH-EFFICIENCY ABSORPTION CHAMBER SILENCER

- Quieter operation allows you to be a good neighbor.

SLURRY VACUUM MODE

- Quickly and easily cleans up directional boring bentonite mud slurry
- Clean out valve boxes, catch basins, etc.

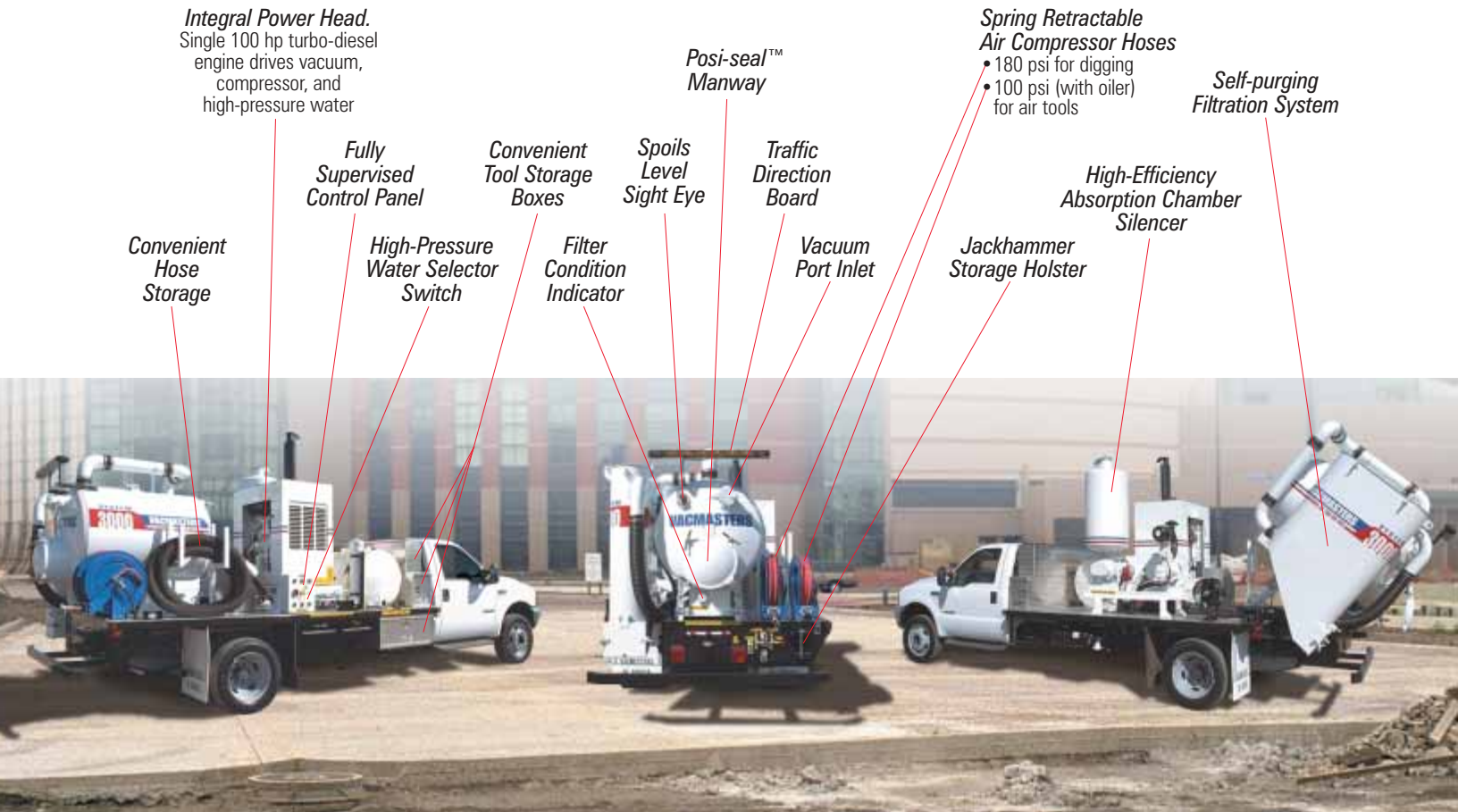
TOP-OF-THE-LINE COMPONENTS

- Our John Deere diesel engine means service is always nearby, if required.

LOW-MAINTENANCE DESIGN

- Monitor and maintain oil levels, follow recommended checks and adjustments... that's it!

SYSTEM 3000 Features



Integral Power Head.
Single 100 hp turbo-diesel engine drives vacuum, compressor, and high-pressure water

Fully Supervised Control Panel

Convenient Hose Storage

High-Pressure Water Selector Switch

Convenient Tool Storage Boxes

Filter Condition Indicator

Spoils Level Sight Eye

Posi-seal™ Manway

Traffic Direction Board

Vacuum Port Inlet

Spring Retractable Air Compressor Hoses
• 180 psi for digging
• 100 psi (with oiler) for air tools

Jackhammer Storage Holster

High-Efficiency Absorption Chamber Silencer

Self-purging Filtration System

SYSTEM 3000 Specifications

POWER SOURCE

Engine Type: 4-cylinder turbo diesel
Model: John Deere 4045T
Power rating: 100 hp
Fuel System: interconnected to truck system
Power Transfer: manual clutch, belt drive

OPERATIONAL DATA

Vacuum: 1000 cfm, 15"Hg, 4" hose
Compressor: 165 cfm @ 180 psi (Air Lance)
165 cfm @ 100 psi (Air Tools)
High-Pressure Water: 0–3000 psi @ 3 gpm
Low-Pressure Water: 0–1000 psi for clean-up

TANK CAPACITIES

200-gallon spoils tank w/hydraulic hoist
110-gallon water tank

OPERATOR CONTROL PANEL INSTRUMENTATION

Fully Supervised, Automatic Shut-Down

- Engine RPM, temperature, oil pressure
- Compressor air pressure, temperature

DIMENSIONS and WEIGHTS

Length: 25' 3"
Width: 7' 4"
Height: 8' 6"
GVW: 19,000
Empty Wt. (lbs.). 14,000

HOSES

33' of 4" Smooth-Bore Vacuum Hose
50' of 3/4" High-Pressure Air Hose for air lance
50' of 3/4" High-Pressure Air Hose for air tools
50' of 3/8" High-Pressure Water Hose

STANDARD EQUIPMENT

- Retractable Air Compressor Hose Reel
- Fiberglass Air Lance With Air-Tec™ Nozzle
- 1 Underbody Storage Box
- 2 Crossbody Storage Boxes
- 1 Step Box
- Traffic Direction Board
- High-Pressure Water Wand
- Low-Pressure Water Wash-Down Wand
- Jackhammer Holster
- Winterizing Kit for Water System
- Vacuum Hose Rack

OPTIONAL EQUIPMENT

- Sandblast System
- Towing Hitches
- Work Lights
- Barrel-top Soil Interceptor