



VAC-CON

www.vac-con.com



COMBINATION SEWER PRODUCT GUIDE



**At Vac-Con we develop
products that clean and
dig smarter through
innovative design
and manufacturing**



WELCOME

At Vac-Con, we care deeply about the protection of the environment and our communities. That's one reason we build the equipment that we do.

Our machines assist public and private entities in maintaining collection systems and treatments facilities, flood remediation and prevention, and non-destructive excavation. With proper maintenance and training, Vac-Con machines help protect the world's potable water supply and other important resources for future generations.

At Vac-Con, we aim to increase our customers' efficiencies and cost-savings by providing machine solutions that bring value to the job site... and the bottom line.



Vac-Con has been making a positive impact on communities and environments around the world for over four decades.

Vac-Con rises above the competition for the following reasons:

Tailored Innovation – Vac-Con has a reputation of innovation that is cultivated by a mission to exceed customer expectations. We've developed many firsts in the industry such as the dual engine machine, 3-stage fan, hydrostatic drive systems, hi-dump, Omnibus Precision Power, the articulating hose reel, plastic water tanks, the Aeroboost Fan, and the Precision Reel Operation (PRO) hose reel. We are committed to introducing new and improved products each year to better improve operator ergonomics, machine performance, and overall aesthetics.

Delivery – Vac-Con is known for the ability to build and turn a machine around faster than any other competitor. When a customer has a rush order or needs a unit by a certain date, Vac-Con will have 'wheels on the ground' before or by that date. We can meet these deadlines due to exceptional relationships with vendors and suppliers as well as a plentiful stock of pool chassis available on-site at the manufacturing facility.

Support – From engineering, sales, parts, and technical service, once a Vac-Con customer, always a Vac-Con customer. Our teams provide personal, unparalleled product and sales support with expert knowledge from the field and the manufacturing facility. In addition, Vac-Con is supported by a worldwide network of dealers that provide front line parts, service, and sales support daily.

Product Offering – Vac-Con offers a complete portfolio of combination, hydro-excavation, and jetter equipment in truck, trailer, and skid-mounted configurations. We boast one of the most comprehensive offerings on the market and continue to evolve and add products each year to meet customer needs and fill product gaps.

Experienced – Vac-Con started in 1986 with 12 employees and a network of representatives in the sewer and wastewater industry. We're proud of our roots and the people that have grown us to where we are today.

From engineering, sales, parts, and technical service, once a Vac-Con customer, always a Vac-Con customer.

100% Employee-Owned – Vac-Con employees have ownership in the operation, ensuring a culture of accountability and quality that can be seen in every unit. Our jobs are more than just a paycheck – they are an investment in our future, and we strive to be the best in the industry.





Bringing value and efficiency to our customers' operations is the mission of our equipment.

THE DNA OF VAC•CON COMBO MACHINES

Vacuum – At the heart of our combination machines, Vac-Con has perfected the vacuum system. We offer positive displacement blowers and fan configurations to meet any requirement or application.

Water – Capacity and power are the most important factors regarding water for combination machines. We offer a range of water tank capacities and jetting settings specifically tailored for the applications of every unit. We also understand the importance of reusing water and offer the most reliable, highest performing water recycling system on the market.

Payload – Bringing value and efficiency to our customers' operations is the mission of our equipment. For that reason, we offer a range of debris tank sizes and will work with you to custom configure a machine that legally meets your payload expectations.

Filtration – If the heart of our machines is the vacuum, then the circulatory system is filtration. To offer the most reliable, highest performing machines on the market, we have engineered filtration systems that effectively collect and separate particles before they can reach the vacuum system. In addition, we promote wet/vac operations to reduce dust production, extending the life of the vacuum system.

Operation – We know a machine is idle without an operator. For this reason, we prioritize improving operator efficiencies and ease-of-use across all our product lines. We're proud to be the innovators of some of the most user-friendly components on the market.

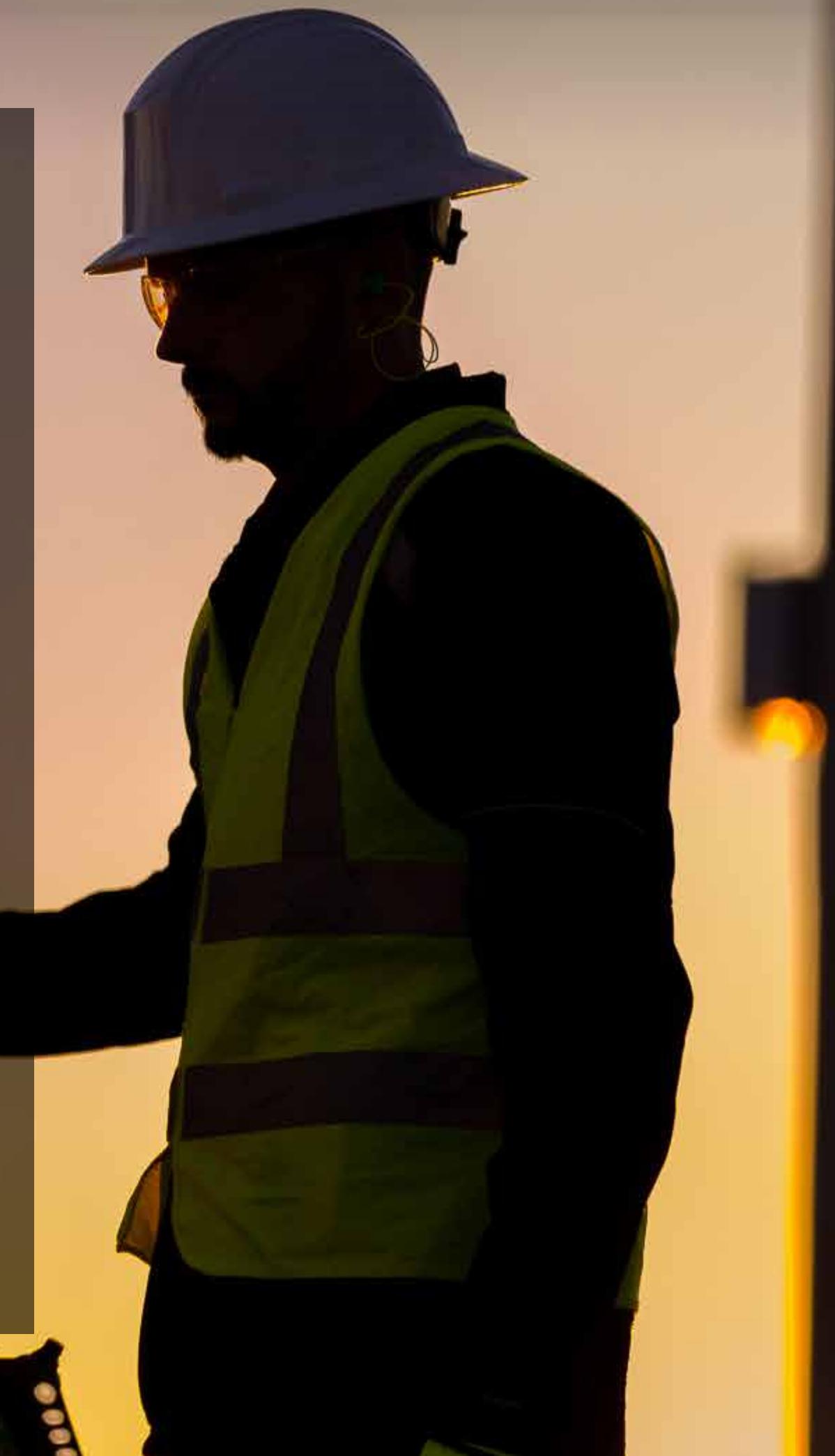
THE INNOVATIONS BEHIND OPERATOR SATISFACTION

PRO Reel – This revolutionary, patent-pending hose reel is like nothing ever before seen in the market. With 16-feet of side-to-side traversing motion across the front of the cab, PRO increases work area by approximately 270% as compared to traditional articulating hose reels. That's almost 70 square feet of flexible work area. An in-cab camera manhole placement systems and monitor reduce setup time by 50%. Operators will find the controls to be easy and conveniently adjustable to various heights and angles. There are no other products that compete against the PRO Reel on the market!

Articulating Hose Reel – Vac•Con was the first to develop the standard articulating hose reel, which articulates 180 degrees towards the driver's side of the cab. A hydraulically operated outrigger leg provides additional stability and support to the system. A standard configuration that's proven and trusted by operators in the field!

Wireless Operation – All Vac•Con machines are available with wireless remote-control operations, increasing operator efficiency and unit ease-of-use. Our wireless remotes offer operation at an extreme range and are designed to withstand the harshest conditions, water, dirt, and debris. An integrated battery ensures that your power source is protected from the elements and recharges by magnetics on your machine.

Remote Transfer Case Engagement – This feature is located on the front of the hose reel and allows operators to start and stop the engine as well as engage and disengage the transfer case in one convenient location. Operators no longer need to return to the cab and add extra steps to the process to get their work started.





DUAL ENGINE COMBO

The combination sewer cleaner that has been setting industry standards since 1986.

The Vac-Con line of combination machines were designed, tested, and built by the sewer cleaning experts at Vac-Con with feedback from our operators in the field. Our latest models offers a wider range of size configurations.

Vac-Con combines the flexibility of a two-engine design to get the toughest jobs done right. Our efficient design, allowing the chassis engine to drive either the 3-stage fan or positive displacement blower vacuum system, actually saves you fuel and general wear and tear in the long run. Using a standard hydrostatic drive, this design can engage the industry's most powerful vacuum. Offering a wide array of options, this is truly a "go anywhere, do anything" machine.

- Gas or diesel auxiliary engines available
- Single axle or tandem axle
- PD blower or Aeroboost fan
- Variety of debris tank and fresh water capacity options
- Hydro excavation package available





SINGLE ENGINE COMBO

Our single engine combination machines stand out amongst a crowded field of “me too” offerings.

The Vac-Con line of combination machines were designed, tested, and built by the sewer cleaning experts at Vac-Con with feedback from our operators in the field. Our latest models offers a wider range of size configurations.

Vac-Con uses the simplicity of a hydrostatic drive to power both the vacuum and water systems with a single engine. Both systems can be independently operated for multiple applications, while allowing for maximum flexibility. Looking for your single-engine machine in a sea of single-engine machines? Vac-Con's unique design offers the best value without sacrificing performance, power or ease of operation.

- Single axle or tandem axle
- PD blower or Aeroblast fan
- Variety of debris tank and fresh water capacity options
- Hydro excavation package available

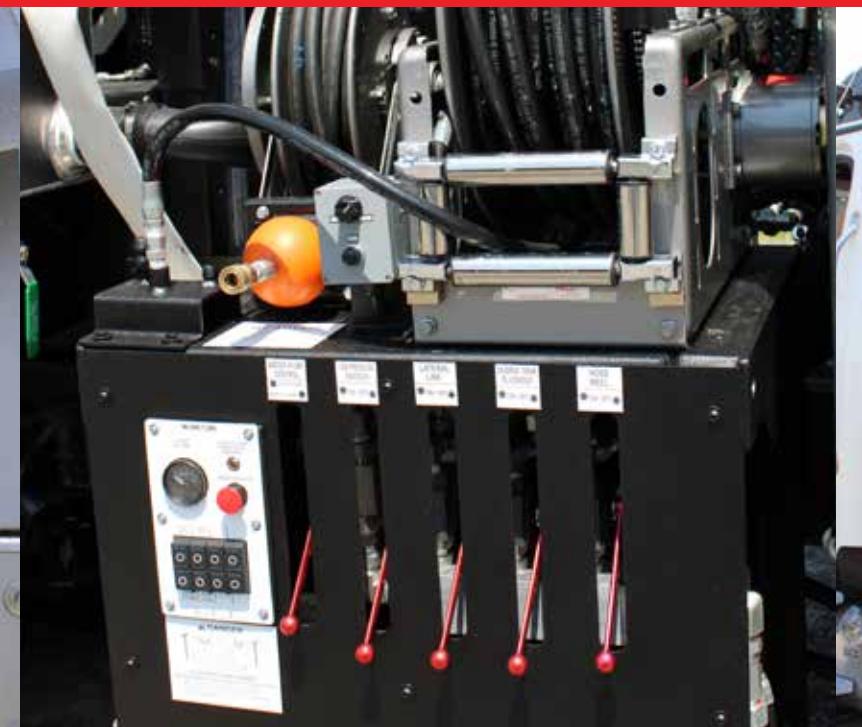


NON-CDL COMBO

A Truly non-CDL truck designed for optimal performance and minimal footprint.

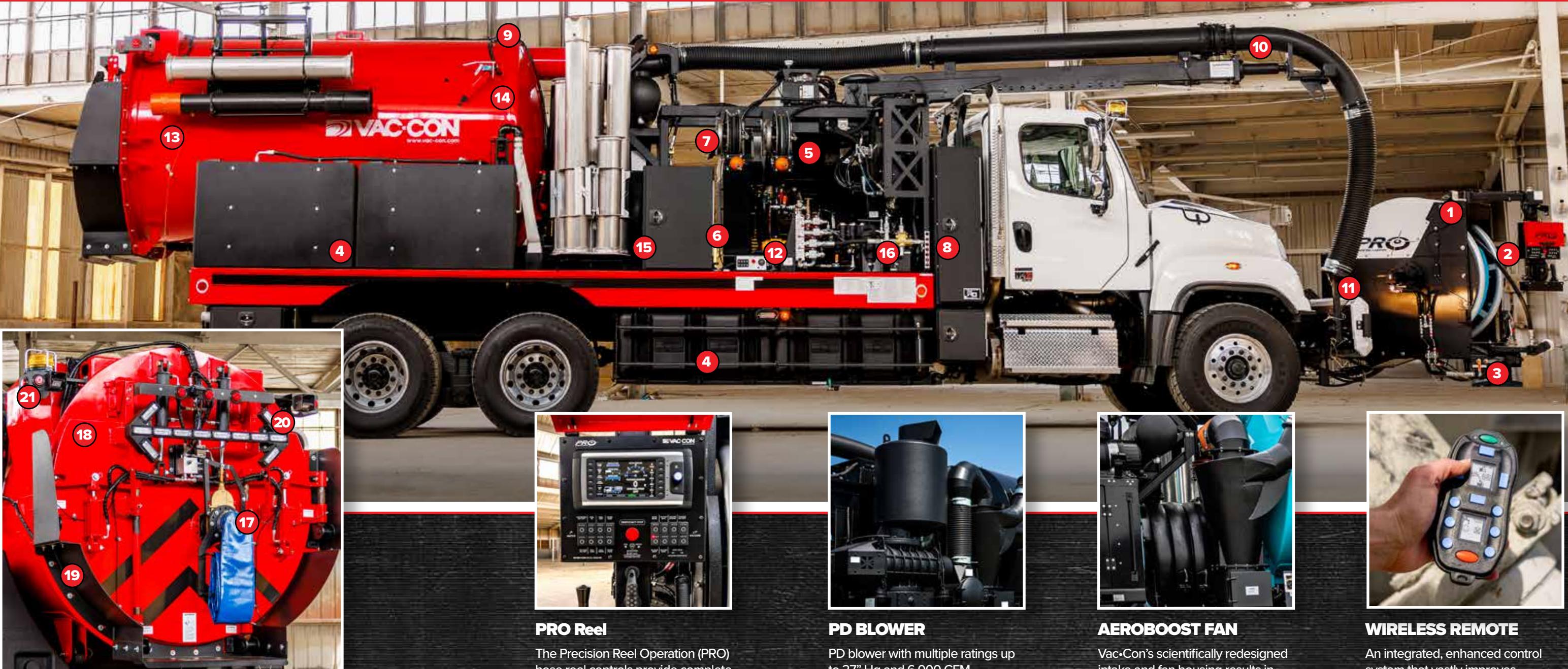
This Non-CDL version of our combination machine provides the performance you'd expect from a Vac-Con with minimal footprint. This is an ideal option for smaller organizations and those who need to have anyone on the team jump in the truck and go, no CDL required.

- No CDL license required to operate
- 3 yard weighs under 26,000 GVWR with full freshwater capacity
- 3.5-yards of capacity in the debris tank
- Simple operating system designed for all skill levels
- Hydro excavation package available
- 5 yard debris tank also available
- Flat-style rear door is available (will affect overall weight)



TOUGH, INNOVATIVE, AND EFFECTIVE COMBINATION MACHINES BUILT TO MEET YOUR NEEDS.

*ITEM ON DRIVER'S SIDE OF VEHICLE



REAR DOOR

Operator friendly rear door features 5-in. butterfly decant valve, hydraulic locks, and splash shield.

AS SHOWN:

1. 180-degrees Articulating Hose Reel
2. PRO Reel Contols
3. Winter Recirculation
4. Cross-Linked Polyethylene Water Tanks
5. Gas Auxiliary Engine *
6. Aeroboost Fan with Centrifugal Separator *
7. Hydraulic Reservoir
8. Aluminum Tool Boxes
9. Positive Seal Vacuum Breaker
10. 10-ft. Telescopic Boom with 270-degree rotation
11. Hinged Boom Tie Down

12. Debris Body Dump Controls

13. Corten Steel Debris Tank
14. External Load Level Indicator
15. Lateral Line Cleaning Kit
16. Water Pump with Suction Strainer

REAR DOOR:

17. 5-in. Butterfly Decant Valve
18. Full-opening Rear Door with Hydraulic Locks
19. Splash Shield
20. Arrow Stick Lighting
21. Strobe Light

OPTIONS:

- A. PRO Reel, Advanced Controls, or Hardwired
- B. PD Blower
- C. Centrifugal Compressor Quiet "Q" Drive (With Aeroboost Fan Only)
- D. Wireless Remote
- E. Hydro Excavation Package
- F. Safety Light Packages
- G. 3-yd to 15-yd Debris Tank
- H. 500 to 1,500-gal. Water Capacity

PRO Reel

The Precision Reel Operation (PRO) hose reel controls provide complete control of machine functions from one centralized location, all with real-time diagnostics.

PD BLOWER

PD blower with multiple ratings up to 27" Hg and 6,000 CFM.

AEROBOOST FAN

Vac-Con's scientifically redesigned intake and fan housing results in a balanced airflow, decreasing turbulence and noise while increasing power, and reliability.

WIRELESS REMOTE

An integrated, enhanced control system that vastly improves usability and efficiency.



RECYCLER

Bringing you the industry's best, most productive work day your water and sewer operations have ever experienced.

The combination machine you trust is available with the recycling system you need for endurance and performance. Designed from proven European technology and the durability to keep you on the job working longer, the Vac-Con Recycler has made its mark on the industry. The Vac-Con Recycler boasts features providing operators with functional flexibility saving you time and increasing your efficiency.

- 73% (or higher) reduction in freshwater usage
- Increased production and better line cleaning without stopping to refill water
- Hydro excavation package available



NEPTUNE

A powerful and simple to operate combination water and vacuum system on a trailer-mounted steel frame.

The Neptune was purpose built for the trailer market with the power of portability of a Vac-Con combination machine. These machines combine a high-pressure water jet system with a high-performance industrial vacuum and provide the same rugged construction, quality and field-tested durability that Vac-Con owners have relied upon for decades.

- Simple design and operation
- Strongest trailer frame on the market, with structural steel tubing
- Standard, tandem axle dually wheels
- Tier 4 diesel auxiliary engine
- Hydro excavation package available



PRODUCT OVERVIEW

COMBINATION SPECIFICATIONS

At Vac-Con we pride ourselves on building machines that are custom built to fit the needs of our customers. As a result, Vac-Con wins out on value, performance, and reliability every single time.



Dual Engine Combination Sewer Cleaning Truck

Axle Setup	Auxiliary Engine	Hose Reel Type	Vacuum Type / Drive	Filtration Type	Water Capacity / Pump	Debris Capacity
Single or Tandem	Gas or Diesel	Standard, Advanced, or PRO Reel	AeroBoost Fan or PD Blower — Hydrostatic	Cyclonic Separator — PD Blowers Include Final Filter	800–1,500 Gallons — 30–100 GPM Up to 1,000 PSI	5, 10, 12, and 15 (Cubic Yards)



Single Engine Combination Sewer Cleaning Truck

Axle Setup	Auxiliary Engine	Hose Reel Type	Vacuum Type / Drive	Filtration Type	Water Capacity / Pump	Debris Capacity
Single or Tandem	N / A	Standard, Advanced, or PRO Reel	AeroBoost Fan or PD Blower — Hydrostatic	Cyclonic Separator — PD Blowers Include Final Filter	800–1,500 Gallons — 30–100 GPM Up to 1,000 PSI	5, 10, 12, and 15 (Cubic Yards)



Non-CDL Combination Sewer Cleaning Truck

Axle Setup	Auxiliary Engine	Hose Reel Type	Vacuum Type / Drive	Filtration Type	Water Capacity / Pump	Debris Capacity
Single	N / A	Rotating	PD Blower — Transfer Case	Cyclonic Separator — PD Blowers Include Final Filter	500 Gallons — 30–40 GPM Up to 3,000 PSI	3 or 5 * (Cubic Yards)



Recycler Combination Sewer Cleaning Truck

Axle Setup	Auxiliary Engine	Hose Reel Type	Vacuum Type / Drive	Filtration Type	Water Capacity / Pump	Debris Capacity
Tandem	N / A	Standard or Advanced	3-Stage Fan — Hydrostatic	Cyclonic Separator — 2-Stage Water Recycling System	1,000 Gallons — 50–80 GPM 2,000–3,000 PSI	10, 12, and 15 (Cubic Yards)



Neptune Combination Sewer Cleaning Trailer

Axle Setup	Auxiliary Engine	Hose Reel Type / Spec	Vacuum Type / Drive	Filtration Type	Water Capacity / Pump	Debris Capacity
Tandem	Diesel	Retractable 50' Capacity 3/8" High-Pressure	PD Blower — Auxiliary Engine	Cyclonic Separator — PD Blowers Include Final Filter	225 or 325 Gallons — 15–20 GPM Up to 3,000 PSI	535 or 845 (Gallons)

Rear Door Type / Locks	Dump Angle / Height	Boom Type / Rotation	Excavation Package	Wireless Remote	Dimensions Height / Length	Additional Options
Flat Industrial — Hydraulic Wedge Locks	50° Angle — 60" Height *	6' or 10' Telescopic — 270° Rotation	Available	Available	Max Height: 12' * — Max Length: 40'	Safety lighting package, Safety camera package, Anti-freeze water pump system, Winter recirculation, On-board storage, Mainframe deck coating, Lateral line kit, Pump-off system, Nozzle storage box, Diamond plate package, Additional high-pressure hand gun hose reel, Cone rack storage, Additional pipe storage, Air excavation

* 60" dump height not available on 15-yard models / 15-yard model exceeds 12-ft max height

Rear Door Type / Locks	Dump Angle / Height	Boom Type / Rotation	Excavation Package	Wireless Remote	Dimensions Height / Length	Additional Options
Flat Industrial — Hydraulic Wedge Locks	50° Angle — 60" Height *	6' or 10' Telescopic — 270° Rotation	Available	Available	Max Height: 12' * — Max Length: 40'	Safety lighting package, Safety camera package, Anti-freeze water pump system, Winter recirculation, On-board storage, Mainframe deck coating, Lateral line kit, Pump-off system, Nozzle storage box, Diamond plate package, Additional high-pressure hand gun hose reel, Cone rack storage, Additional pipe storage, Air excavation

* 60" dump height not available on 15-yard models / 15-yard model exceeds 12-ft max height

Rear Door Type / Locks	Dump Angle / Height	Boom Type / Rotation	Excavation Package	Wireless Remote	Dimensions Height / Length	Additional Options
Round — Hydraulic Cam Locks	50° Angle — 60" Height *	5' Extendable — 200° Rotation	Available	Available	Max Height: 11' 5" — Max Length: 28'	Flat rear door*, Safety lighting package, Safety camera package, Anti-freeze water pump system, Winter recirculation, Mainframe deck coating, Lateral line kit, Pump-off system, Cone rack storage, Additional pipe storage

* 5-yard debris tank / flat rear door may affect CDL weight requirements

Rear Door Type / Locks	Dump Angle / Height	Boom Type / Rotation	Excavation Package	Wireless Remote	Dimensions Height / Length	Additional Options
Flat Industrial — Hydraulic Wedge Locks	50° Angle — 48" Height	6' or 10' Telescopic — 270° Rotation	Available	Available	Max Height: 12' 5" — Max Length: 40'	Safety lighting package, Safety camera package, Anti-freeze water pump system, Winter recirculation, On-board storage, Mainframe deck coating, Lateral line kit, Pump-off system, Nozzle storage box, Diamond plate package, Additional high-pressure hand gun hose reel, Cone rack storage, Additional pipe storage, Air excavation

* All models exceed 12-ft max height

Rear Door Type	Dump Angle	Boom Type / Rotation	Excavation Package	Wireless Remote	Dimensions Height / Length	Additional Options
Round — Hydraulic Cam Locks	55° Angle	9' Telescopic with 2' Extension — 270° Rotation	Available	Available	Max Height: 9' 5" — Max Length: 22' 5"	Safety lighting package, Anti-freeze water pump system, Winter recirculation, On-board storage, Lateral line kit, Pump-off system, Diamond plate package

ADDITIONAL INFORMATION

Vacuum Options

PD Blowers are best used in applications dealing with liquids, sludge, or thick materials – vacuuming over a long distance horizontally. A PD has a finite lifting capability. Once a PD reaches its lift capacity, an operator must fluidize (add air) to continue conveying material to the machine.

Centrifugal Fans are capable of vacuuming material under water either with or without air induction. Fans work well moving liquids and solids at more than 100-ft. vertically or horizontally.

Capacity Options

Various Debris Tank Sizes – It doesn't matter what the job is, Vac-Con has a machine for you. With a full line of skid, trailer, and truck-mounted configurations, we can meet your debris tank requirements. Choose your debris tank size based on your application and environment, time needed out in the field, and payload requirements.

Water Options

Water Capacities – Vac-Con offers users a range of water tank capacities to best fit their applications and job requirements. Water capacity may change the overall configuration of a unit, including going from a single to tandem axle chassis.

Recycler – Vac-Con boasts the best performing Recycler Combination Machine on the market. This component allows for 73% or higher reduction in freshwater usage depending on conditions. All components of our system are designed for recycled water use – no fast-moving water pumps or components re-purposed from freshwater systems. Coarser filtration allows for a greater range of operating conditions such as heavily sedimented and small or large diameter lines. The Vac-Con Recycler can use water from ANY source, including lift stations.

Hose Reel Options

PRO Reel – A traversing motion across the front of the cab allows for almost 70 square feet of coverage within operator reach. This reel is designed for those that need to get on the job quickly with an in-cab manhole placement camera system that allows the driver to pull up to the manhole and park it, reducing setup time by 50%.

Advanced Controls – Using an industry standard CAN bus electronic controller system this setup includes a 4" color monitor at operator's station with integrated footage counter, 7" in-cab mounted color monitor for lighting controls, and systems monitoring and one-button transfer engagement (if equipped). Also included are pressure compensated hydraulics with dual proportional joysticks for independent control of hydraulic boom and hose reel functions.

Hardwired Controls as simple as it gets in a 12v classic operating system that is easy to setup, easy to use, and easy to maintain.

Additional Options

Noise Reduction – The Vac-Con combination machine boasts a noise reduction of 8% compared to traditional combination machines. The Aeroboost 3-stage fan with Quiet Drive are revolutionary components that bring a multitude of benefits to operators, fleets, and communities alike.

Temperature Controlled – Vac-Con understands that operators are working in some of the harshest conditions imaginable. That's why we offer various options for temperature-controlled enclosures for both operators and important machine operations. Many of our units have the option for climate-controlled cabinets for water and electrical systems.

Boilers can be added to many units, ideal for work in cold conditions and winterization kits are available on all products.

Carbon Infused Tungsten Elbow – Working in some of the harshest conditions imaginable, this elbow provides the extra strength and durability to get the job done.

Efficiency

Fuel Savings and Operational Efficiency – If fuel-savings and operational efficiency are your priorities, then the Vac-Con was designed for you. The Vac-Con combination machine boasts premium innovations in vacuum and filtration systems that have been proven to result in the following:

- 44% Fuel savings with Quiet Drive
- 43% Decrease in operating RPM with Quiet Drive
- 25% Increase in airflow with Aeroboost Fan
- 20% More horsepower with Dual Engine machines
- 8% Decrease in noise pollution with Quiet Drive
- 5% Increase in overall vacuum pressure (lift) with Aeroboost Fan

Built to Your Needs

Custom Comes Standard – At Vac-Con we have over 40 years of experience in designing, manufacturing, and supporting combination, hydro-excavation, and jetter machinery. We work with our customers as consultants, helping you determine what machine will best suite your needs. With Vac-Con you will not be picking your next truck off the lot or compromising by picking from a few existing models... Your Vac-Con will be custom built just for you.

Plus, we are continuously innovating new solutions for our customers in an effort to provide them with a complete offering of reliable, high-performing products.



PRECISION REEL OPERATION



PRO REEL

The PRO Reel is the most versatile, operator conscious hose reel on the market.

Vac-Con is proud to introduce the first of its kind, PRO Reel. Featuring a bolt-on all-aluminum design resulting in a 500-lbs. weight reduction, new ergonomic operator controls, and almost unlimited adjustability.

- Most hose reel work area coverage in the market
- 7" digital display at the operator station
- One button jet hose on / off
- In-cab camera manhole placement system reduces setup time by 50%
- Front and rear camera
- All digital hose footage counter, water level gauge, and debris tank level gauge
- Planetary gear for hose reel pay out / retrieve
- Rotary actuator for hose reel articulation
- Emergency back-up auxiliary hydraulic pump



CONCLUSION



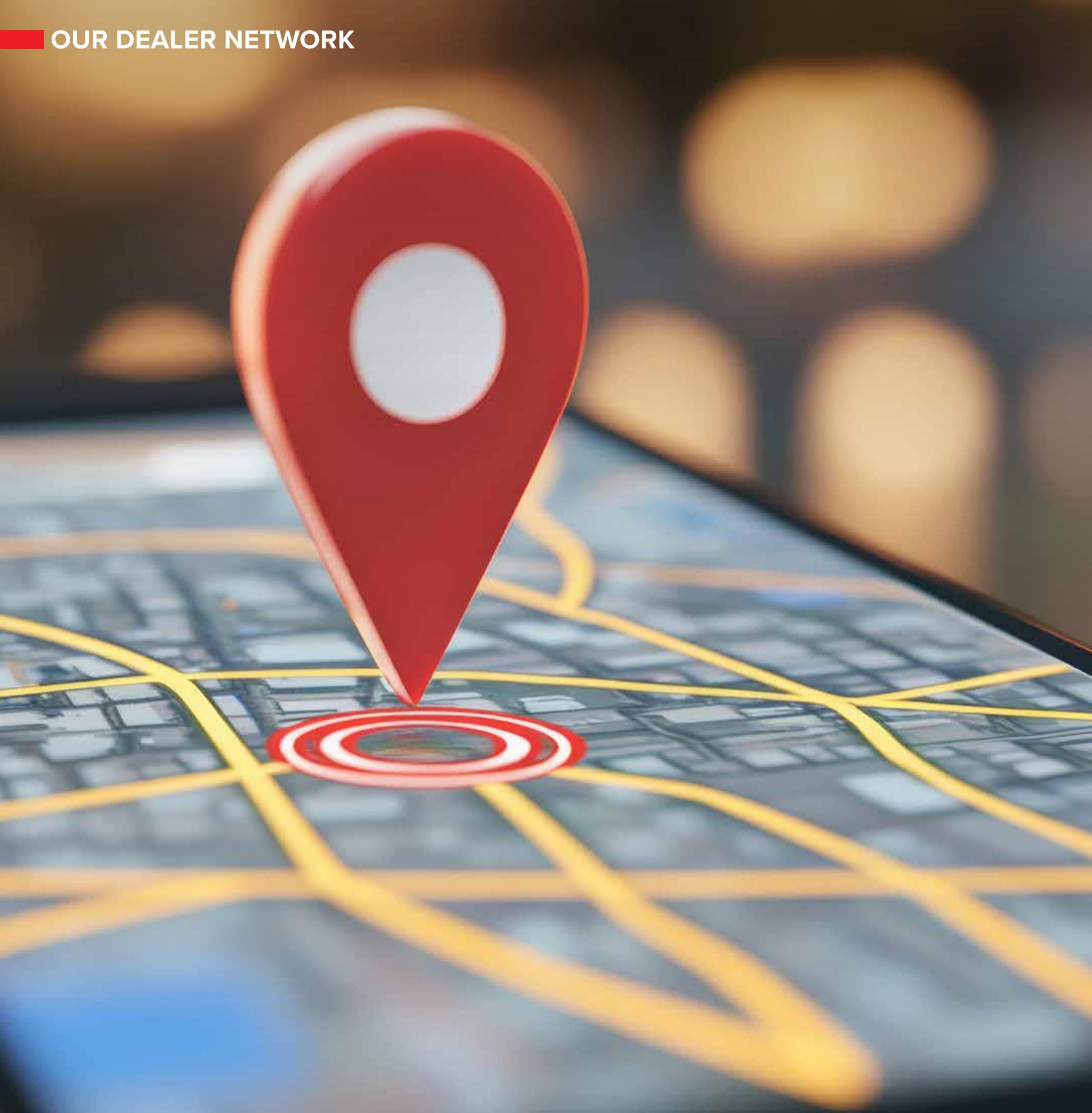
When it comes to the best environmental machinery solutions for any application, there is no comparison to Vac-Con.

As the proven experts in the industry since 1986, our product offering has been carefully designed, engineered, built, and tested to exceed expectations and bring value to our customers.

Not only do we build the best machines in the market, we provide unparalleled customer support for our equipment leading to lifelong relationships.

**Once a Vac-Con customer,
always a Vac-Con customer.**

OUR DEALER NETWORK



A WORLDWIDE NETWORK OF DEALERS

While we build the best machines in the industry, our dealers build the best support network in the field. Our global, full-product-line network of dealerships has the expertise to guide you through any buying or servicing scenario... Wherever your work leads you, you are never far from a Vac-Con expert.



To find a dealer near you, please
visit our online dealer locator

www.vac-con.com



 **VAC-CON**
www.vac-con.com