



The Proven Leader. Reenergized



Vactor Manufacturing developed the ExcaVactor, a dedicated pneumatic vacuum excavator in 1969 – that's over 45 years of experience. The Vactor HXX HydroExcavator[®] the leader in hydroexcavators, is a powerful machine that safely tackles major excavations while also managing smaller jobs with precision. The HXX HydroExcavator comes from Vactor Manufacturing who for over 50 years has been supplying contractors and municipalities with durable, reliable products using air conveyance, high pressure water and vacuum technology. The Vactor facility is ISO 14001:2004 and ISO 9001:2000 certified.

The Vactor HXX was designed and engineered as a purpose built hydroexcavator with contractor input throughout the process. Now with nearly 20 years of proven performance, the HXX is tough and reliable, built to work in sub-zero conditions as well as in the extreme heat of summer.

The Vactor HXX increases worksite safety and decreases the cost of digging by avoiding the tremendous expense associated with power outages, burst waterlines or gas explosions that can result when a backhoe, trencher or other mechanical earth mover hits a buried utility. And the Vactor HXX's hydroexcavator's precision excavating is a lessinvasive method causing less surface damage than traditional mechanical digging methods.



SAFE – SMART – RUGGED – RELIABLE VACUUM EXCAVATION











DigRight™ Technology



Standard Wireless Controls



MAKING THE BEST EVEN BETTER.

EXCLUSIVE INTELLIVIEW[®] ELECTRONIC CONTROL & MONITORING SYSTEM

IntelliView, a centralized data system that monitors and displays real-time equipment performance data such as blower RPM, blower temperature and fuel consumption in gallons/hour is standard. This feature provides instantaneous fuel consumption data that allows you to determine the most fuel efficient operation of the unit for the application. System integrity is continually monitored to prevent misuse of the equipment, protecting both the machine and operator in an intuitive and simple-to-learn control system. Chassis information is also monitored through the IntelliView allowing the operator quick visibility of chassis engine RPM, fuel level, and more! The centralized location on the control panel allows the operator realtime feedback of equipment without having to look in multiple locations, monitoring operations and quickly troubleshooting the system if necessary. The electronic control system is located away from the water pump and other water components to prevent electronic failure in the event of a water leak.

WATER SYSTEM WITH DIGRIGHT[™] TECHNOLOGY

The variable water multi-flow pump with the new patent pending DigRight[™] technology allows the operator to select a maximum water pressure limit to prevent the pressure from exceeding site or industry requirements. This technology includes:

- User-selectable maximum water pressure setting that controls the water pump's max water pressure output. The system has three default selectable pressure limitations based on industry best practices for digging around underground utilities: 1,500 PSI, 2,500 PSI, 3,000 PSI with the option to turn the feature off.
- The default settings are custom-configurable to the customer's needs.
- A simple 'double-click' on the control brings the system to a pre-set pressure level.
- Automatic adjustment of the pump's water displacement to match the user's nozzle selection.
- Prevents wear and tear on check valves, unloader valves, and relief valves by avoiding bypassing water, which is typical with other multi-flow systems. Preventing bypassing of water also saves fuel and money by eliminating wasted energy.
- Automatically adjusts water flow when using two operator stations.

The standard water system is rated at 10 gpm @3000 PSI* (37.85 L), the maximum pressure recommended for safe excavation. It is powered by a hydraulically operated triplex piston water pump. Each unit includes a standard handgun hose 3/8 in x 75 ft (.95 cm x 22.86 m) mounted on a heavy duty retractable reel. The handgun and water pump can be mounted in an optional heated cabinet for protection against cold weather conditions. The Vactor HXX can be configured to include an additional handgun reel, hose, and digging lances for improved productivity.

*Production Q2/3 2015



VACTOR HXX HYDROEXCAVATOR SAFE – SMART – RUGGED – RELIABLE VACUUM EXCAVATION

The Vactor HXX HydroExcavator uses high pressure water or optional pressurized air to break up and loosen soil, while a powerful vacuum system lifts the soil up and out of the excavation area.



Non-Destructive E-Stop Function



Lifting Debris Body

Electrical:

The electrical system is moisture and vapor sealed, and protected by resettable circuit breakers. All wiring is through specifically designed, function stamped and color coded OEM wiring harness for reliability and ease of use and troubleshooting. Wire harnesses feature a protective snake skin covering to ensure a reliable and rugged electrical system. At the heart of the system are the solid-state control modules which are designed for the application and feature no moving parts, unlike relays, switches, timers, and flashers seen with other systems, which are prone failure from vibrations. The Vactor HXX control modules are designed for use on mobile equipment, are vibration and temperature resistant, and have reduced electrical wiring for less potential of shorts.

Paint:

The Vactor HXX features a 4-stage, paint before assembly, automotive quality paint finish. This process features sand blasting and acid washing to remove oils for proper paint adhesion. The components are then primed and painted with 2 coats of automotive grade polyurethane paint for an outstanding fit and finish. Black components feature a baked on powder coat finish.

Hydraulic System:

The Vactor HXX utilizes an on-demand hydraulic system for an energyefficient and reliable system. The hydraulic system is protected by a 10-micron spin-on type hydraulic filter designed for the application.

Boom & Vacuum Hose:

The 7 ft (2.13 m) top mounted, hydraulic extendable boom, provides 320° of rotation to provide full working coverage around the unit to maximize the work area. An optional telescoping boom is also available to meet your application need. The 8 in (20.3 cm) inside diameter hose allows easy passage of large, thick material for maximum productivity. Work area is large with a 22 ft (6.71 m) reach from the centerline of the truck. Various vacuum tubes and storage are also available.



Vactor's new boom turret design improves operator performance and productivity with increased vertical range of motion. The boom's turret features a removable transition which is easily replaced or removed. The increased range of motion enables the operator to complete most applications with only one dig tube, reducing setup and tear down time by eliminating the need to add additional vacuum tubes.

Vacuum dig tubes are quickly and easily stored in optional fold-down pipe racks with Vactor's patented* Twist-and-Lock pipe locking system. This eliminates the use of bungee straps which can be difficult to operate.

Over 21 feet of vertical motion

Water Tanks:

1200 gallon (4,542.5 L) High Density Polyethylene (HDPE) thermoplastic water tank retains heated water temperature longer than other style tanks, reducing the likelihood of freezing during operation in harsh winter weather, ideal for extreme cold weather applications. It is UV stabilized and can be recycled. The reduced weight decreases fuel consumption while increasing payload availability and hauling capacity. The system comes with a water level indicator with low level alarm. Two 10 in (25.4 cm) quick access openings on top of the water tank allow for quick and easy alternate filling of the water tanks via gravity fill station or pumped in from an auxiliary pump. The water tanks have a 5-year warranty against corrosion and cracking.

Debris Body:

The 12 cubic yard (9.2 cu m) debris body fabricated from corrosion and abrasion resistant steel is well matched for the application. Optional 15 cubic yard (11.47 cu m) debris body available. A 50 degree dump angle and electronically operated vibrator facilitate fast and easy removal of material, out-performing pusher plate and sweeper arm style models. The raising body also allows the operator to control their offload over other methods. The 1/4 in (6.35 mm) thick Ex-Ten steel and rib reinforced body meet designed operating vacuum of 30 in Hg minimum. A hydraulically activated, flat style 3/4 rear door, hinged at the top with replaceable neoprene seal and four rod and receiver locks ensure a tight close. Dual, 10 in (25.4 cm) stainless steel float balls in the debris tank allow maximum air flow through the system to minimize pressure drop while also blocking off vacuum when the tank is full preventing carryover.



Operator's Station & Controls:

A user-friendly, ergonomically designed control box is located curbside for easy access and efficient operation. Enclosed in an aluminum box, it is protected from environmental elements and is located away from the water pump and other water components to prevent electronic failure in the event of a water leak. Controls include a tachometer and hour meter for both chassis and blower, temperature indicators for various systems, water system on/off with multiflow, complete boom and body dump functions, E-Stop and more. A wireless remote is standard, putting all of the controls in the operator's hands directly at the worksite. The operator can control the boom up/down, in/out and left/right with the wireless controls.



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VACUUM SYSTEMS

The Vactor HXX HydroExcavator features flexible vacuum system options including chassis powered positive displacement blowers or a centrifugal compressor fan system for a simple, single engine vacuum source.

There are three positive displacement blower choices: the Hibon 8702 Tri-lobe, the Roots 824, and the new Robuschi RBDV 145

Hibon 8702

- Hibon 8702 Tri-Lobe (28 in Hg) 5250 cfm @ max. speed 2000 rpm
- Ultra-quiet inlet and outlet silencers acoustically matched to blower
- Direct drive, heavy-duty transfer case
- Vacuum relief located at the inlet of final filter to fully relieve vacuum

Roots 824

- Roots 824 rotary lobe (18 in Hg) 4970 cfm @ max speed 2360 rpm
- Three vacuum reliefs incorporated and set at 18 in Hg for added protection of vacuum system
- Vacuum relief located at the inlet of final filter to fully relieve vacuum
- Includes a micron final filter screen and housing, located prior to the blower inlet
- Direct drive, heavy-duty transfer case
- Lighter weight enhances fuel economy and payload

Robuschi RBDV 145 – NEW

A quieter and more powerful offering

- Robuschi RBDV 145 Tri-Lobe (28 in Hg) 6,176 cfm @ max. speed 2000 rpm
- Ultra-quiet inlet and outlet silencers acoustically matched to blower
- Under 90 dBA at all operating RPM per SAE J1372 test
- Direct drive, heavy-duty transfer case
- Vacuum relief located at the inlet of the final filter to fully relieve vacuum
- Ideal for work at higher altitudes due to ability to produce increased cubic feet per minute (cfm) which aids in compensating for the reduced atmospheric pressure
- Superior in long horizontal runs of four and six in vacuum hose or deep vacuum applications
- Tested up to 35% performance improvement over other blowers in class

All Vactor HXX vacuum systems are protected by application sized centrifugal cyclones for improved filtration, minimizing material pass through to ensure a long lasting vacuum excavator.

FAN VACUUM SYSTEM

- Ideal for most vacuum excavation applications
- Dual 38 in (96.52 cm) aluminum two-stage centrifugal compressor/fan system
- Hydrostatic fan drive system

- Vacuum relief located at the inlet of debris tank to allow operator to vent to atmosphere
- Lighter weight enhances fuel economy payload capacity









Stainless Steel Water Tank



7 ft Hydraulic Telescopic Boom



Warming Box

OPTIONAL FEATURES

The Vactor Hydroexcavator's modular design allows you to select options that meet your specific needs so you can achieve the maxiumum productivity you expect.

- 400,000 BTU/hr or 800,000 BTU/hr water heater helps cut through frozen ground and clay
- Cold Weather Package includes a heated pump and hose reel cabinet to protect against winter weather
- Walk-in warming cabinet
- 20 gpm water pump
- Hydraulic tool package
- Second operator's station
- Additional tool boxes
- Heated, lockable storage
- Stainless steel water tank
- 15 cubic yard volumetric capacity debris body
- 7 ft hydraulic telescopic boom with 320 degree rotation
- Wireless remote for debris body dump functions
- Many chassis axle configurations to meet your requirements
- Many additional cold weather features



PROVEN PERFORMANCE IN:

excavating remotely at long distances • precision excavations • exposure of live gas distribution lines utility, pipe and line location • daylighting underground infrastructure • excavation in frozen ground directional drilling mud recovery • pipe and line installation • tank cleaning • utility excavation valve box clean out • drill rig cleanup • emergency response • water-line repair • slot trenching potholing • pit cleaning • spill cleanup

ADDITIONAL SPECS:

DEBRIS BODY

12 cu yd volumetric debris body

1/4 in round design, abrasion and corrosion resistant Ex-Ten steel

Flat style, 3/4 rear door, hinged at top with replaceable neoprene seal

Hydraulic rear door open, close, locking

Front mounted hydraulic dump cylinder, 50 degree dump angle, power up / power down

WATER TANKS

1200 gal capacity

High Density Polyethylene (HDPE)

Anti-siphon device and anti-splash valve

25 ft water fill hose and connectors

Water-level indicator with low level alarm

5-yr warranty against corrosion and cracking

WATER SYSTEM

Rated at 10 gpm @ 3000 PSI

Hydraulically-operated triplex piston water pump

Handgun hose 3/8 in x 75 ft operating pressure of 3500 PSI burst pressure of 14,500 PSI





BOOM & VACUUM HOSE

7 ft hydraulic extendable boom, top mounted, with 320 degrees of rotation

22 ft reach from the centerline of truck

HYDRAULIC SYSTEM

PD: Hydraulic reservoir capacity of 50 gal with strainers on all suction lines

FAN: Hydraulic reservoir capacity of 65 gal with strainers on all suction lines

Oil-level sight gauge/10 micron spin-on type filter

ELECTRICAL

Entire system will be moisture and vapor sealed and protected by circuit breakers

Electrical connections require no exposed wires or terminals

Light bulbs will be shock mounted

PAINT

Prior to painting, all metal surfaces will be shot blasted and phosphate washed

Module components will be painted prior to assembly

WARRANTY

The Vactor HXX series is warranted against defects in material or workmanship for a period of 12 months from the date of delivery to the original purchase and 5 years on the water tanks. Optional extended warranty packages are available. Consult Vactor for complete warranty information.



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