



VACTOR[®]
HXX
VACUUM EXCAVATORS

Vactor HXX Prodigy



APPLICATIONS

Municipal, Utility, Oil & Gas



Key hole repairs



Water or air excavation



Precise excavation



Slot trenching



**Water valve box repair or
utility & line locating**



**Visually locate underground
utilities in tight spaces**

HDD drilling mud recovery

VECTOR HXX Prodigy®

Compact and maneuverable with big machine power and performance



The HXX Prodigy® vacuum excavator, from Vector Manufacturing, is based on the popular Vector® HXX Hydroexcavator® and years of vacuum excavation research, customer input, testing and experience. The HXX Prodigy mid-sized vacuum excavator is the perfect non-destructive machine for a wide range of utility and municipal applications including safer potholing, key hole repairs, precise excavation, slot trenching, HDD drilling mud recovery, water valve box repair or utility and line locating. Small and compact, the Prodigy combines big machine performance at a fraction of the cost.



With more than 19 million miles of buried utilities in the United States and utility marking location accuracy often in question, the Prodigy vacuum excavator quickly and efficiently locates underground utilities while protecting the vulnerable and expensive infrastructure. Utility companies, utility service contractors and municipalities will appreciate the ease of operation, lighter operating weight and maneuverability of the Prodigy when working in tight spaces. Excavating using either air or water as a digging medium is an added advantage for utility contractors who often require air excavation for locates and line repairs.



The Prodigy provides powerful performance with a lower operating cost than the larger counterparts, and more productivity than the trailer-type models. Equipped with application-specific enhancements, it can perform in the toughest climate and soil conditions while maintaining maximum uptime.

The Vector HXX Prodigy gives you the quality, durability, productivity, and performance you have come to expect from Vector.





Precise Excavation Using Water or Air

The Prodigy uses hydro-excavation, blasting away soil with jets up to 10 gallons of water per minute, at rates from 1,500 to 2,500 psi. The variable-pressure triplex pump allows the operator to adjust water pressure with the push of a button. For applications where dry digging is preferred, an optional air excavation system is available. In certain areas, air excavation can be the preferred method of excavation. The Prodigy with air excavation option allows the operator both capabilities to meet the job's requirements.



Innovative Design

Mounted on a 33,000-pound gross vehicle weight Class 7 truck chassis (non-FET), the HXX Prodigy features a user-friendly control system and a standard extendable boom with 320-degree rotation that provides full coverage of the working area. An optional telescopic boom is also available.



Ample Water and Debris Capacities

The Prodigy is able to carry up to 600 US gallons (2271 L) of water and 6 cu. yards (4.6 m³) of debris and can perform in the toughest climate and soil conditions, for more uptime and lower operating costs. An optional 400,000 BTU water heater helps cut through frozen ground and clay. And the optional cold weather package which includes a heated pump and hose-reel cabinet protects against winter weather.



Superior Vacuum Performance

The Prodigy features a powerful 16-inch Hg, 3,200 CFM PD blower with a custom-designed and optimized filtration system that can handle both digging mediums—air (185 cfm/150 psi) and water (10 gpm/ 2500 psi)—without a bag house. The 3,200 CFM blower and 6-inch hose provide the operators with increased performance when compared to smaller trailer units

The vacuum system features ultra-efficient airflow, a Vactor trademark. The simplified airflow path maximizes pickup and filtration effectiveness, while minimizing the amount of material that passes through the blower. This, in turn, reduces the likelihood of premature wear or extensive repairs.



To learn more, visit www.vactor.com



User-Friendly Controls



The ergonomically designed control box is located curbside for easy access, efficiency and improved operator safety. Enclosed in an aluminum box, it is protected from environmental elements. Controls include water system on/off with variable flow, complete boom and body dump functions, E-Stop and more. The variable flow pump system allows you to adjust water pressure with the press of a button for digging in various conditions. A standard wireless remote puts all of the controls in the operator's hands.



A centrally-located IQAN display panel monitors performance of all functions, including engine rpm, blower speed, engine load, water pump hours, a tachometer and hour meter for both chassis and blower, temperature indicators for various systems, and more. It also provides the blower over speed and temperature protection, hydraulic overheat protection, and water temperature protection guarding the equipment from potential abuse from inexperienced operators.

Quality, durability, productivity, performance



Debris Body

- 6 cu yd volumetric capacity debris body
- 1/4 inch 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, and locking system
- Front mounted hydraulic dump cylinder, 50 degree dump angle, power up / power down

Water Tanks

- 600 gal capacity
- #304 3/16 inch stainless steel water tank
- Anti-siphon device & anti-splash valve with 25 ft water fill hose and connectors
- Electric water-level indicator with low-water warning system
- 10-yr warranty against corrosion and cracking

Water System

- Water system design rated at 10 gpm @ 2500 psi
- Hydraulically operated triplex piston water pump with electronic flow management
- Handgun hose 3/8 inch x 75 ft with operating pressure rating of 3500 psi and burst pressure rating of 14,500 psi

Vacuum System

- Roots 624 (16 inch Hg) 3200 cfm @ max speed 2800 rpm
- Direct drive OMSI transfer case
- Vacuum relief located at the inlet to the final filter to quickly relief system vacuum
- Remote-control operated
- 6" top mount boom with 320 degree rotation

Hydraulic System

- Hydraulic reservoir capacity of 50 gallons with strainers on all suction lines
- Oil-level sight gauges on hydraulic reservoir
- Inspection port for maintenance
- 10 micron spin-on type filter

Electrical

- Entire system is moisture and vapor sealed
- All wires function stamped and color coded
- Electrical connections require no exposed wires or terminals
- Light bulbs are shock mounted
- Solid state electronic control system

Paint

- All metal surfaces shot blasted prior to painting
- All metal surfaces are phosphate washed prior to painting
- Module components painted prior to assembly

Options

- Air excavation package
- Telescopic boom
- Vacuum enhancer
- Air purge system utilizing chassis air system
- Water heater - 400,000 BTU / hr
- Additional toolboxes
- Cold weather options



Specifications subject to change without notice. Some products shown with optional equipment. Vactor® and HXX Prodigy® are registered trademarks of Vactor Manufacturing. Vactor is a subsidiary of Federal Signal Corporation. Federal Signal is listed in the NYSE by the symbol FSS. Effective 09/13 P/N 00071-A ©2013 Vactor Manufacturing



Vactor Manufacturing, Inc.
1621 South Illinois Street, Streator, IL 61364 U.S.A.
(815) 672-3171 Phone • (815) 672-2779 Fax
www.vactor.com

For more information on the Vactor HXX Prodigy vacuum excavator or to schedule a demonstration, please visit www.vactor.com