



Memo

TO: Committee of the Whole
FROM: Ed Andrews, Public Works Director
DATE: June 9, 2017
SUBJECT: Vacuum Truck

Through discussions during the budgeting session for this fiscal year, the replacement of the City's 2008 dual-engine Vactor truck was discussed. It is under a 10-year replacement schedule replacement, advanced by two years to allow for upgrade to tandem unit with additional capacity. This unit serves as frontline for not only jetting sewers but also hydro excavating, potholing for critical JULIE locates and other UG infrastructure.

The current budgeted amount of the upgrade is \$400,000, forecasted with a minimum trade-in of \$77,500 and an accrued MERF replacement budget of \$287,900 leaving a nominal outlay to be split by 75%-12.5%-12.5% (Sewer-Streets-Water) depending on the option selected. See pricing below:

Manufacturer & Model	Vendor	Price	Trade	Total
Vactor 2100+ (Chassis Powered)	COE	\$367,610	\$ 90,000	\$277,610
Vac-Con 1500LXHP (Chassis Powered)	EJ Equipment	\$374,460	\$100,000	\$274,460
Vac-Con 1500LXHP (2 Engine Powered, Diesel & Gas)	EJ Equipment	\$393,374	\$100,000	\$293,374
Vac-Con 1500LXHP (2 Engine Powered, Dual Diesel)	EJ Equipment	\$408,797	\$100,000	\$308,797

Vactor and Vac-Con demonstrated their units to the City in mid-May at various real-world situations directed by staff, i.e. a lift-station drawdown and hydro exaction. While the City has had a longstanding relationship with Vactor, their move to a single engine chassis power was of concern. Vac-Con demonstrated their unit with dual-engine (gas option) and was felt to retain the advantage over the two units.

For comparison purposes, staff had Vac-Con generate a quote with a chassis powered option for a better side by side comparison. Ultimately however, it is staff's feeling that that the dual engine Vac-Con unit at \$293k is the recommended option.

This consideration is being brought before Committee of the Whole for discussion.

cc: File



Presents a Proposal Summary

of the



2100 Plus

Combination Single Engine Sewer Cleaner with Positive Displacement Vacuum System Mounted on a Heavy Duty Truck Chassis

for

City of Washington
107 Legion Rd.
Washington, Illinois 61571

Brad Franklin
Tel:

PRODUCT DESCRIPTION

- 2100 PLUS with Roots 824-16" Hg. Blower, 12 Yard Debris body, 1500 Gallons of Fresh Water

STANDARD FEATURES

- 48" x 22" x 24" Curb Side Aluminum Toolbox
- Aluminum Fenders
- Mud Flaps
- Electric/Hydraulic Four Way Boom
- Color Coded Sealed Electrical System
- Remote Pendant Control w/35' Cord
- Vansco-Electronic Package
- Double Acting Dump Hoist Cylinder
- Handgun Assy. w/1/2" x 35' Hose w/Quick Disconnects
- 3" Y-Strainer at Water Pump Inlet
- Ex-Ten Steel Cylindrical Debris Tank
- Flexible Hose Guide
- 30 Deg. Sand Nozzle w/Carbide Inserts
- 30 Deg. Sanitary Nozzle w/Carbide Inserts
- 15 Deg. Penetrator Nozzle w/Carbide Inserts
- Nozzle Storage Rack
- Vacuum Tube Storage: Curbside (2) Pipe, Rear Door (2) Pipe
- 1" Nozzle
- 1" X 10' Leader Hose
- Flat Rear Door w/Hydraulic Locks and Door Power-up/Down, Open/Close Feature
- Dual 10" Stainless Steel Float Shut Off System/Rear Mounted
- Debris Body Vacuum Relief System
- Debris Deflector Plate
- 60" Dump Height
- Water Sight Gauge DS/PS
- Liquid Float Level Indicator
- Boom Transport Post Storage
- 3" Y-Strainer @ Water Pump w/3" Drain Valve
- Performance Package: (Hyd Variable Flow, Dual PTO's. Dual Hyd. Pumps)
- 1" Water Relief Valve for Vactor Water Pump
- Stainless Steel Microstrainer
- Blower Air Shift Controls
- Hydraulic Cooling Package
- Midship Handgun Coupling
- Side Mounted Water Pump
- Hose Wind Guide (Dual Roller)
- Hose Footage Counter - Mechanical
- Hose Reel Manual Hyd. Extend/Retract
- Hose Reel Chain Cover (Full)
- Tachometer/Chassis Engine W/Hourmeter
- Circuit Breakers
- LED Lights. Clearance, Back-Up, Stop, Tail & Turn
- Tow Hooks, Front and Rear
- Electronic Back-Up Alarm
- Hydraulic Tank Shutoff Valves
- 8" Vacuum Pipe Package
- Emergency Flare Kit

- Fire Extinguisher 5 Lbs.
- Water Pump Hour Meter
- PTO Hour Meter
- Vactor 2100 Plus Body Decal - Silver
- Chassis Modifications
- Vactor Manual, Partial Manual and USB Version - 1 + Dealer

ADDITIONAL FEATURES

- 3" Y-Strainer w/25' Fill Hose
- 304 Stainless Steel Water Tanks Upgrade in lieu of Aluminum
- Roots 824-16" Hg. Blower
- 180 Degree Rotation, 10 Ft. Hydraulic Telescoping Boom, Front Loading 8" Suction Hose
- 80 GPM Variable Flow Water System
- 2500 PSI Water Pressure
- 1" x 600' Sewer Hose, 2500 PSI
- Hydraulic Extending/Rotating 15" Hose Reel (1" x 800') Capacity
- Module Paint, Dupont Imron Elite - Sanded Primer Base
- Debris Body Flush Out System
- Full Rear Door Swinging Screen
- Centrifugal Separators
- Folding Pipe Rack, Curbside
- Folding Pipe Rack, Streetside
- Rear Door Splash Shield
- Lube Manifold
- Plastic Lube Chart
- Low Water Light w/Alarm and Water Pump Flow Indicator
- Hot Shift Blower Drive
- Front Joystick Boom Control
- Wireless Controls, including hose reel controls
- Cold Weather Recirculator, PTO Driven, 25 GPM
- Rodder System Accumulator- Jack Hammer on/off control w/ manual valve
- Automatic Hose Level Wind Guide, Indexing
- Digital Hose Footage Counter
- Handgun Hose Reel w/Spring Retract
- Rodder Pump Drain Valves
- Rear Directional Control, Split LED Arrow Traffic Controller, 10 Lights
- Hand Light w/Retractable Reel
- DOT 3 Lighting Package, 4 Federal Signal Strobe Lights, LED
- Worklights (2), LED, Telescoping Boom
- Toolbox, Front Bumper Mounted, 16 x 12 x 18 w/(2) LED Side Markers
- Toolbox, Behind Cab
- Toolbox, Driver Side Chassis Frame, 24w x 24h x 24d
- Toolbox, Driver Side Subframe, 18w x 24h x 24d
- (4) Long Handle Tool Storage Locations Behind Cab
- Camera System, Front and Rear
- Digital Water Pressure Gauge

Additional options included in this proposal:

- Hydro Excavation Kit/Retract Reel. Note: 75'x 1/2" HXX reel in lieu of standard
- 450GPM, 4" Trash pump mounted on rear door
- 5-year warranty on Vactor jet rodder pump

Cab Color - White
Module Paint Color - Red
Module Paint Color Code - L3781EB Viper red

Chassis:

One New 2018 Freightliner FL114SD 6x4 tandem axle chassis
370HP Cummins engine
Allison Automatic transmission
Color: White
(Please see attached truck specification for full chassis details)

Vactor module Price..... \$ 270,392.00
2018 Freightliner FL114 chassis \$ 97,218.00
Less trade in allowance for city's 2008 Sterling/ Vactor \$(90,000.00)
Subtotal..... \$ 277,610.00

**Price includes delivery and operator training
Note: License and title to be billed separate.

Option 1

2 Stage fan Vacuum system in lieu of PD Blower. Add \$ 3600.00

Price valid for 30 Days from date of 5/19/2017

Product Model: 2100PLUS

P.O. Number: _____

Payment Terms: net

Proposal Notes:

1. Changes or deviations to any unit of a multiple unit order will require a new signed proposal.
2. Chassis specifications and data codes for customer supplied chassis must be submitted to and approved by Vactor Manufacturing prior to submittal of customer purchase order
3. All prices quoted are in US Dollars unless otherwise noted.

SIGNED BY:

Date: _____

LIMITED WARRANTY

Limited Warranty. Each machine manufactured by VACTOR/GUZZLER MANUFACTURING (or, "the Company") is warranted against defects in material and workmanship for a period of 12 months, provided the machine is used in a normal and reasonable manner and in accordance with all operating instructions. In addition, certain machines and components of certain machines have extended warranties as set forth below. If sold to an end user, the applicable warranty period commences from the date of delivery to the end user. If used for rental purposes, the applicable warranty period commences from the date the machine is first made available for rental by the Company or its representative. This limited warranty may be enforced by any subsequent transferee during the warranty period. This limited warranty is the sole and exclusive warranty given by the Company.

STANDARD EXTENDED WARRANTIES (Total Warranty Duration)

2100 Series, HXX, Series and Jetters

10 years against water tank leakage due to corrosion. Nonmetallic water tanks are covered for 5 yrs. against any factory defect in material or workmanship.

2100 Series and HXX only

5 years against leakage of debris tank, centrifugal compressor or housing due to rust-through.

2100 Series and Jetters

2 years - Vactor Rodder Pump on all unit serial numbers starting with 13##V#####.

Exclusive Remedy. Should any warranted product fail during the warranty period, the Company will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company's examination discloses to be defective in material or factory workmanship. Repairs or replacements are to be made at the selling Vactor/Guzzler distributor's location or at other locations approved by the Company. In lieu of repair or replacement, the Company may elect, at its sole discretion, to refund the purchase price of any product deemed defective. The foregoing remedies shall be the sole and exclusive remedies of any party making a valid warranty claim.

This Limited Warranty shall not apply to (and the Company shall not be responsible for):

1. Major components or trade accessories that have a separate warranty from their original manufacturer, such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires and batteries.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as, but not limited to, oils, fluids, vacuum hose, light bulbs, fuses, gaskets.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by the Company.
5. Repairs, modifications or alterations without the express written consent of the Company, which in the Company's sole judgment, have adversely affected the machine's stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident or improper maintenance.

NOTE The use in the product of any part other than parts approved by the Company may invalidate this warranty. The Company reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make the Company liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

THIS WARRANTY SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE DISCLAIMED.

This warranty is in lieu of all other obligations or liabilities, contractual and otherwise, on the part of the Company. For the avoidance of doubt, the Company shall not be liable for any indirect, special, incidental or consequential damages, including, but not limited to, loss of use or lost profits. The Company makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assume any other liability on behalf of the Company in connection with the sale, servicing or repair of any machine manufactured by the Company. Any legal action based hereon must be commenced within eighteen (18) months of the event or facts giving rise to such action.

The Company reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.

GUZZLER

VACTOR

VACTOR/GUZZLER MANUFACTURING

1621 S. Illinois Street
Streator, IL 61364

TERMS AND CONDITIONS

ORDERS: All orders are subject to acceptance by Vactor Manufacturing, Inc. or Guzzler Manufacturing, Inc. (hereafter referred to as Vactor). Orders for products not normally carried in stock or requiring special engineering or manufacturing is in every case subject to approval by Vactor's Management.

PRICES: All orders are subject to current prices in effect at the time of order acknowledgement.

F.O.B. Point: Unless otherwise stated, all prices listed are F.O.B. factory.

PAYMENT TERMS: The company's payment terms are due upon receipt, unless otherwise stated. However, until such time as Vactor receives full payment, Vactor shall maintain a purchase money security interest in the product.

CANCELLATION: Orders regularly entered cannot be cancelled except upon terms that will compensate Vactor for any loss or damage sustained. Such loss will be a minimum of 10% of the purchase price.

SHIPMENT: All proposals are based on continuous and uninterrupted delivery of the order upon completion, unless specifications distinctly state otherwise. In the event that agreement is reached for Vactor to store completed items, they will be immediately invoiced to the customer and become due and payable. Storage shall be at the risk of the customer and Vactor shall be liable only for ordinary care of the property.

STORAGE CHARGES: Vactor shall charge the customer at current rates for handling and storing customer's property (e.g. truck chassis) held for more than thirty (30) days after notification of availability for shipment. All customer's property, or third party's property, that is stored by Vactor is at the customer's or other party's risk. Vactor is not liable for any loss or damage thereto caused by fire, water, corrosion, theft, negligence, or any caused beyond its reasonable control.

PERFORMANCE: Vactor shall not be liable for failure to complete the contract in accordance with its terms if failure is due to wars, strikes, fires, floods, accidents, delays in transportation or other causes beyond its reasonable control.

EXPERIMENTAL WORK: Work performed at customer's request such as sketches, drawings, design, testing, fabrication and materials shall be charged at current rates.

SKETCHES, ENGINEERING DRAWINGS, MODELS and all preparatory work created or furnished by Vactor, shall remain its exclusive property; and no use of same shall be made nor may ideas obtained therefrom be used except with the consent of and on terms acceptable to Vactor.

TAXES: The pricing attached does not include Federal, State or local taxes which are the buyer's responsibility. However, Vactor/Guzzler Manufacturing, Inc. shall be responsible for Federal Excise Tax (F.E.T.) unless it is separately stated on the invoice and added to the selling price. If F.E.T. is not separately stated on the invoice it has not been included in the price and Vactor/Guzzler will pay any F.E.T. due itself and bear the cost of the tax. Any refunds or adjustments to the F.E.T. in such cases belong to Vactor/Guzzler.

PRODUCT IMPROVEMENTS: Vactor reserves the right to change manufacturing specifications and procedure in accordance with its product improvement policy.

MOUNTING PRICES: Mounting prices assume normally factory installation on a truck chassis suitable for the unit purchased. Relocation of batteries, fuel tanks, mufflers, air tanks, etc. will be an additional charge, billed at the standard factory labor rate.

WARRANTY: Vactor warrants its products to be free from defects in material and workmanship, subject to the limitations and conditions set forth in its current published warranty. Other than those expressly stated herein. THERE ARE NOT OTHER WARRANTIES OF ANY KIND EXPRESS OR IMPLIED, AND SPECIFICALLY EXCLUDED BUT NOT BY WAY OF LIMITATION, ARE THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MECHANABILITY.

IT IS UNDERSTOOD AND AGREED THE SELLER'S LIABILITY WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY IN NEGLIGENCE OR OTHERWISE SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY THE PURCHASER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE PRICES STATED FOR THE EQUIPMENT IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. NO ACTION REGARDLESS OF FORM, ARISING OUT OF THE TRANSACTION OF THE AGREEMENT MAY BE BROUGHT BY PURCHASER MORE THAN ONE YEAR AFTER THE CAUSE OF ACTION HAS ACCURED.

SELLER'S MAXIMUM LIABILITY SHALL NOT EXCEED AND BUYER'S REMEDY IS LIMITED TO EITHER (I) REPAIR OR REPLACEMENT OF THE DEFECTIVE PART OF PRODUCT, OR AT SELLER'S OPTION (II) RETURN OF THE PRODUCT AND REFUND OF THE PURCHASE PRICE AND SUCH REMEDY SHALL BE BUYER'S ENTIRE AND EXCLUSIVE REMEDY.

E J EQUIPMENT, INC.
 PO Box 665 • 6949 N. 3000 E. Rd.
 Manteno, IL 60950
 PH: (815) 468-0250 • Fax: (815) 468-8055
 www.ejequipment.com



Ship To: SAME AS BELOW

Invoice To: CITY OF WASHINGTON
 301 WALNUT
 WASHINGTON IL 61571

Branch 01 - CENTRAL		
Date 06/07/2017	Time 8:05:55 (Q)	Page 1
Account No. WASH001	Phone No. 3097453503	Estimate No. 000706
Ship Via		Purchase Order
CRAIG SUHRE		Salesperson S21 / S21

Attention: KEVIN SCHONE

EQUIPMENT ESTIMATE - NOT AN INVOICE

Description ** Q U O T E ** EXPIRY DATE: 07/07/2017 Amount

VAC-CON MODEL PD3612HEN/1500LXHP COMBINATION SEWER CLEANER 374460.00
 MOUNTED ON A FREIGHTLINER MODEL 114SD CHASSIS

|
 SEE ATTACHED BUILD SHEET FOR EQUIPMENT SPECS

Trade Ins
 =====

VACTOR MODEL 2110J6
 Serial #: 08-07V11306 100000.00-

Subtotal: 274460.00
 Quote Total: 274460.00

Authorization: _____
 |
 AVAILABILITY: 90-120 DAYS AFTER RECEIPT OF CHASSIS

|
 PLEASE NOTE: PER MIKE KAUTZ, LIFETIME WARRANTY ON WATER
 TANKS INCLUDED

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Received By



Vac-Con Combination Sewer Cleaner

- Single Engine, Roots 824 – 16" Hg Blower, 12-Yard Debris Body, 1500 gallons for fresh water capacity

Base Features

- 35" x 14" x 24" Curb Side Aluminum Toolbox
- Aluminum Fenders
- Mud Flaps
- Electric/Hydraulic Four Way Boom
- Color Coded Sealed Electrical System
- Remote Pendant Control w/35' Cord
- Omnibus Precision Power System
- Double Acting Dump Hoist Cylinder
- Handgun Assembly with 1/2" x 35' Hose w/Quick Disconnects
- Pre-Tank Y-Strainer at Water Pump Inlet
- Corten Steel Cylindrical Debris Tank
- Flexible Tiger Tail Hose Guide
- 30 Deg. Sand Nozzle
- 30 Deg. Sanitary Nozzle
- 15 Deg. Penetrator Nozzle
- 1" Nozzle Storage Rack
- Vacuum Tube Storage: Curbside (2) Pipe, Rear Door (2) Pipe
- 1" Nozzle
- 1" X 10' Leader Hose
- Flat Rear Door w/Hydraulic Locks and Door Power-up/Down, Open/Close Feature
- Debris Deflector Plate
- 60" Dump Height
- Water Sight Gauge
- Liquid Float Level Indicator
- Boom Transport Post Storage
- Strainer at Water Pump
- Hydraulic Variable Flow
- 1" Water Relief Valve
- Stainless Steel Micro Strainer
- Blower Air Shift Controls
- Hydraulic Cooling Package
- Midship Handgun Coupling
- Side Mounted Water Pump
- Hose Wind Guide (Dual Roller)
- Hose Footage Counter - Mechanical
- Hose Reel Manual Hyd. Extend/Retract
- Hose Reel Chain Cover (Full)
- Tachometer/Chassis Engine W/Hourmeter
- Circuit Breakers
- LED Lights. Clearance, Back-Up, Stop, Tail & Turn

- Tow Hooks, Front and Rear
- Back-Up Alarm
- Hydraulic Tank Shutoff Valves
- 8" Vacuum Pipe Package
- Emergency Flare Kit· Fire Extinguisher 5 Lbs.
- Water Pump Hour Meter
- PTO Hour Meter
- Vac-Con Manual, USB Version

Additional Features

- 3" Y-Strainer w/25' Fill Hose
- Roots 824-16" Hg. Blower
- 180 Degree Rotation, 10 Ft. Hydraulic Telescoping Boom, Front Loading 8" Suction Hose
- 80 GPM Water System
- 2500 PSI Water Pressure
- 1" x 600' Sewer Hose, 2500 PSI
- Hydraulic Extending/Rotating 15" Hose Reel (1" x 800') Capacity
- Module Paint, Dupont Imron Elite
- Debris Body Flush Out System
- Full Rear Door Swinging Screen
- Centrifugal Separators
- Folding Pipe Rack, Curbside
- Folding Pipe Rack, Streetside
- Rear Door Splash Shield
- Lube Manifold
- Low Water Light w/Alarm and Water Pump Flow Indicator
- Hot Shift Blower Drive
- Front Joystick Boom Control
- Wireless Controls
- Cold Weather Recirculator, PTO Driven, 25 GPM
- Automatic Hose Level Wind Guide, Indexing
- Digital Hose Footage Counter included with Omnibus Precision Power System
- Handgun Hose Reel w/Spring Retract
- Drain Valves
- Rear Directional Control, Split LED Arrow Traffic Controller, 10 Lights
- Hand Light w/Retractable Reel
- DOT 3 Lighting Package, 4 Federal Signal Strobe Lights, LED
- Worklights (2), LED, Telescoping Boom
- Toolbox, Front Bumper Mounted, 16 x 12 x 18 w/(2) LED Side Markers
- Toolbox, Behind Cab
- Toolbox, Driver Side Chassis Frame, 24w x 24h x 24d
- Toolbox, Driver Side Subframe, 18w x 24h x 24d
- (4) Long Handle Tool Storage Locations Behind Cab
- Camera System, Front and Rear
- Digital Water Pressure Gauge included with Omnibus Precision Power System
- Hydro Excavation Kit/Retract Reel. Note: 75'x ½"
- 450GPM, 4" Trash pump mounted on rear door
- 5-Year Warranty on Water Pump
- Cab Color – White
- Body Color – Red; Color Code: L3781EB Viper Red

Chassis

2017 Freightliner FL114SD 6x4 tandem axle chassis

370HP Cummins engine

Allison Automatic transmission

Color: White

Please Note: Delivery and Training for Operators and Technicians is included

License and Title Fees will be billed separate

E J EQUIPMENT, INC.
PO Box 665 • 6949 N. 3000 E. Rd.
Manteno, IL 60950
PH: (815) 468-0250 • Fax: (815) 468-8055
www.ejequipment.com



Ship To: SAME AS BELOW

Invoice To: CITY OF WASHINGTON
 301 WALNUT
 WASHINGTON IL 61571

Branch 01 - CENTRAL		
Date 05/26/2017	Time 11:42:06 (O)	Page 1
Account No. WASH001	Phone No. 3097453503	Estimate No. 000686
Ship Via		Purchase Order
CRAIG SUHRE		Salesperson S21 / 304

Attention: KEVIN SCHONE

EQUIPMENT ESTIMATE - NOT AN INVOICE

Description ** Q U O T E ** EXPIRY DATE: 06/25/2017 Amount

VAC-CON V312LHA/1300 393374.00
 MOUNTED ON A FREIGHTLINER 114SD CHASSIS
 PLEASE SEE ATTACHED BUILD SHEET FOR EQUIPMENT SPECS
 |
 AVAILABILITY: 90-120 DAY AFTER RECEIPT OF CHASSIS

Trade Ins
 =====

VACTOR MODEL 2110J6
 Serial #: 08-07V11306 100000.00-

Subtotal: 293374.00
 Quote Total: 293374.00

Authorization: _____
 |
 PLEASE NOTE: PER MIKE KAUTZ, LIFETIME WARRANTY ON WATER
 TANKS INCLUDED

OPTIONAL EQUIPMENT, NOT INCLUDED IN ABOVE PRICING

CAMERA, FRONT AND REAR ADD \$2,222.00

JD AUX ENGINE (IN LEAU OF GAS) ADD \$15,423.00

X

Received By



Vac-Con Model Number - V 312E/1300 L H A -P

Main Information

Model	312E/1300
Blower	Hydrostatic Drive
Boom	10' Aluminum Telescoping Boom with Pendant Control Station
Hose Reel	Front Mounted, Articulating to Driver Side (Std Pivot)
Jet Rodder Hose	600' x 3/4" Jet Rodder Hose
Water System	50 gpm/3000 psi Pump
Auxiliary Engine	Ford Power Products Gas WSG-1068, 6.8 Liter, (415 CID) (10)-Cylinder, V-10 222HP @ 3200RPM/360 ftlbs at 3200RPM
Water Pump	GIANT

Debris Body Options

Qty Description

- 1 6" Air operated knife valve/Front Drivers Side Mounted w/Cam-lock and 25' of layflat hose with Cam-lock
- 1 A Flat Style Rear Door
- 1 Rear splash guard (2 - 10 O'clock) - tank mounted
- 1 Rear, Hydraulic Pump Off System, 575 GPM w/20' lay flat Hose

Water System Options

Qty Description

- 1 50' Capacity Retractable Hand Gun Hose Reel
- 1 Air Purge System
- 1 Auxiliary Engine Driven Hydraulics
- 1 Debris Body "Power Flush" System, 8 jets
Hydroexcavation package includes: 50' retractable handgun hose reel with 50' of 1/2" high pressure hose,
- 1 HP/Quick disconnect, heavy duty HP unloader valve, main control ball valve, 72"x1/2" Sch. 80 Lance w/Quick Dcn., Sngl. Fwd. Spray Nozzle, Horiz. Hand.
- 1 Variable Flow Valve (Valve Only) - nozzles required
- 1 Water Pump Remote Oil Drain
- 1 Winter Recirculating connection for high pressure circuit.
- 1 Winter Recirculating connection for low pressure circuit.
- 1 Winter Recirculating System for Rodder Hose

Hose Reel Options

Qty Description

- 1 Automatic Level Wind

Misc Machine Options

Qty Description

- 1 Automatic Lube Kit for Centrifugal Compressor
- 1 Auxiliary Engine Remote Oil Drain
- 1 Grease Assembly Articulating Hose Reel
- 1 Heavy Reinforced Elbow "Wear Back"
- 1 Remote Boom Grease Zerk Assembly (Ground Level)
- 1 Remote Debris Tank Grease Assembly (Ground Level)

Lighting Options

Qty Description

- 1 LED 4 Strokes - (2) front bumper / (2) rear bumper - Whelen 50A03ZCR - Amber
- 1 LED Arrow stick - Whelen TAM85 Traffic Advisor
- 1 LED Boom Mounted Flood Lights with Limb Guard - Whelen NP6BB Worklight
- 1 LED Midbody Flood Lights with guards - Whelen NP6BB (Driverside and Curbside)
- 1 LED Rear Mounted Flood Lights with Limb Guard - Whelen NP6BB Worklight
- 1 Midbody LED Strokes - Frame Mounted - Whelen 50A03ZCR - Amber

Electrical Options

Qty Description

- 1 Omnibus Precision Power™ System (OPP)-Electronic Controller System-Includes: a color monitor, electronic footage counter, and pressure compensated hydraulics. AVAILABLE: DUAL AND SINGLE ENG MACHINES.
- 1 Remote Control (Wireless): Boom, Vacuum Breaker, Throttle & Debris Body (includes Hi-Dump, if applicable). Does not include remote cable pendant controls for boom or hi dump.

Spare Rolls of Jet Rodder Hose

Qty Description

- 1 600' Spare Roll of Jet Rodder Hose

Spare Nozzles

Qty Description

- 1 3/4" 50 gpm Penetrator Chisel - Standard, spare

Root Cutter

Qty Description

- 1 3/4" Bulldog 400.060A

Pipe Storage Racks

Qty Description

- 1 Lazy Susan Pipe Rack (Holds 5 Pipes)

Tool/Storage Boxes

Qty Description

- 1 (2) Roll out shelves for storage box behind cab

Paint

Qty Description

Paint color to be determined.

Extra charge will apply for custom or specialty colors.

Truck Chassis Information

Pool Truck Chassis Model

Freightliner 114SD 6x4 66000GVWR ISL370 3000RDS with Remote Chassis Engine Start Switch