



Vacuum Sales, Inc.

51 Stone Road, Lindenwold, N.J. 08021
 800-547-7790 Fax: 856-627-3044
 www.VacuumSalesInc.com

Bid Number #ESCNJ 17/18-30
VACALL MODEL AJV610 (180 day delivery)
COMBINATION JET/VACUUM SEWER CLEANER

Intent - The intent of this specification is to define the minimum requirements of the (Town Name Here) for one (1) vacuum air conveying sewer cleaner.

General: This unit is designed for and capable of simultaneous high pressure jetting and vacuuming for the removal of sand, grit, grease, sludge, stones and other materials from sanitary sewers, storm sewers, catch basins, pumping stations, and other facilities. The unit will have a self-contained water supply for use with a high pressure cleaner for breaking of blockages and removal of material contained therein.

The unit will include an air conveying system capable of simultaneous removal of debris flushed to the manhole by the sewer cleaner system, or debris removal from catch basins, sumps, digesters, wet wells, etc. using the single chassis engine as the power source. The vacuum system will include a sealed body for storage and removal of the collected debris.

The unit will be designed for ease of maintenance and be fully operational by one man and all controls will be located at an operator's station in front of the truck for convenience and safety.

This machine will comply with all federal, state and local laws binding upon this type of equipment. Must meet Certified ISO 9001 standards.

Note: Bidders must note their compliance to the specifications in the space provided using the words "YES" or "NO". Deviations or changes must be noted and explained in detail on a separate sheet at the end of each section. The use of words such as "exceeds, equal to or not required" will not be acceptable in lieu of a detailed explanation.

Standard Unit (Does Not Include Cab & Chassis) – List Price \$219,759.72

DEBRIS BODY

Construction: A dual radius designed vessel using high strength ASTM A572 grade 50 steel, 1/4" upper and lower radius section, 1/4" sidewalls, front bulkhead and 3/8" rear bulkhead.

Rear door constructed of 1/2" high strength steel
 ASTM A572 grade 50 steel.

Capacity: 6 cubic yards useable capacity
 (Manufacturers Certification of capacity must be supplied)

The vessel shall be hot dip galvanized in accordance with ASTM A123 standards, including a three (3) step preparatory wash or be constructed of 304 stainless steel. A lifetime limited warranty shall be included. A pro rated warranty is unacceptable.
 A lifetime warranty in lieu of stated materials is unacceptable.

COMPLIANCE/REMARKS

Standard

Standard

Standard

Standard



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DEBRIS BODY - continued

COMPLIANCE/REMARKS

Door: Hydraulically lock/unlock, raise and lower using one (1) Dual Acting Hydraulic cylinder to perform all functions. Cylinder shall be equipped with check valves for multi position door holding, and safety.

Standard _____

Tailgate locking wedges shall have a reverse bevel to maintain a mechanical lock if hydraulic pressure should be lost for any reason.

Standard _____

A replaceable, reversible neoprene seal shall be supplied.

Standard _____

Dumping and door controls will be located forward of the debris body on driver's side for safety, so operator does not have to cross in front or behind of vehicle at dump sight and so driver will not be subject to debris from dumping.

Standard _____

External ground level greaseable float type debris level indicator w/stainless steel ball shall be provided

Standard _____

Debris inlet tube shall enter at top front of tank and continue into tank extending 3/4 of the specified tank length. Airflow shall then exit at the front of tank for best possible material separation.

Standard _____

Debris shall hit bolted on deflector plate at top tank rather than rear bulkhead to prevent premature wear.

Standard _____

Float type automatic vacuum shutdown system with a single stainless steel ball, housed in carbon steel cage. Systems requiring switches or dual float balls to accomplish this are unacceptable.

Standard _____

Body door hinges and pins: Bolted to enable shim adjustment with grease fittings. Lock receivers shall also be shimmed for adjustment as seal wears.

Standard _____

Tailgate will hydraulically open to full width and height.

Standard _____

Decant: 6" butterfly valve mounted at lowest point of rear door, 10' x 6" lay flat hose with rack (includes blaster valve).

Standard _____

Internal carbon steel screen on decant inlet, hinged to swing away for easy cleaning shall be provided.

Standard _____

Safety body prop shall be supplied to secure body during repairs.

Standard _____

External rear door safety prop shall be provided as a secondary device to hold the door open for cleaning of debris body or inspection.

Standard _____

A high pressure ball valve will be installed on a high pressure manifold to control water to the tank flusher for safety and circuit maintenance.

Standard _____



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DEBRIS BODY - continued

The debris body and water tanks shall be affixed on a single but independent frame, separate from the chassis and power frame.

COMPLIANCE/REMARKS

Standard

Debris tank shall be mounted via a 3 point mounting system to allow flexing.

Standard

The debris body hoist cylinder shall be a single post design with NTEA compliant performance range. The double-acting cylinder must use pins that are removable with retaining bolts. Cylinder shall provide a minimum lifting capacity of 56,000 lbs. and a minimum dump angle of 50 degrees.

The hoist cylinder shall have hydraulic check valves to hold the debris body in any angle while dumping.

Standard

DEBRIS BODY OPTIONS

| | |
|--|---------------------|
| • Internal tank flusher full flow | <u>\$ 2,619.60</u> |
| • Carbon Steel splash shield | <u>\$ 1,347.14</u> |
| • Ground level grease fitting for float level indicator | <u>\$ 910.72</u> |
| • Ground Level grease manifold for tailgate hinge and lock assembly | <u>\$ 1,627.92</u> |
| • 8" inspection port top of tank | <u>\$ 699.22</u> |
| • Debris tank Hi-Dump design | <u>\$ 39,135.36</u> |
| • Stainless steel float call cage | <u>\$ 8585.14</u> |
| • Dual debris body safety props | <u>\$ 1,412.34</u> |
| • Dual rear door safety props | <u>\$ 1,103.16</u> |
| • 6" male camlock on decant valve with camlock cap & lanyard also includes 6" lay flat hose with camlock | <u>\$ 434.32</u> |
| • 6" drain valve – manually operated brass slide gate valve | <u>\$ 229.25</u> |
| • 4" sludge pump on rear door | <u>\$ 5,080.42</u> |
| • Sludge pump internal full size decant screen | <u>\$ 521.62</u> |
| • 3" decant line to front with valve at bumper | <u>\$ 2,081.16</u> |
| • 4" valve on sludge pump inlet | <u>\$ 521.62</u> |



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DEBRIS BODY OPTIONS - continued

| | |
|--|--------------------|
| • 6" dia. X 6" tall bolt on standpipe on sludge pump port with strainer | <u>\$ 1,082.13</u> |
| • 6" dia. X 12" tall bolt on standpipe on sludge pump port with strainer | <u>\$ 1,106.31</u> |
| • 6" dia. X 18" tall bolt on standpipe on sludge pump port with strainer | <u>\$ 1,134.70</u> |
| • 6" dia. X 24" tall bolt on standpipe on sludge pump port with strainer | <u>\$ 1,172.58</u> |

DUAL WATER TANKS

Capacity: 1,000 U. S. Gallons
 (Manufacturers Certification of capacity must be supplied)

Constructed of ¼" shell and baffles, ½" end plates aluminum or stainless steel only, Warranty: A lifetime limited warranty will be supplied.

Each tank will be equipped with 2" ball valve low point drains, internal baffles and a six (6) inch crossover tube between tanks for quick and level filling.

Water- tanks will not rise with the debris body while dumping.

Water-tanks will not share common wall with debris tank and will be easily removed in the event of replacement or repair.

Tanks will be located above chassis frame rails to provide a flooded inlet to the water pump and protection from road damage and off-road uses and for ease of service to drive line components.

Anti Splash valve, 4" air gap water fill and a 2 ½" Y strainer

Anti-siphon device, and fill hose storage rack shall be provided.

Water tank digital level indicator located in front control panel shall be provided.

Water tank shall have a lifetime limited warranty against corrosion, cracking, material and workmanship

COMPLIANCE/REMARKS

Standard

Standard

Standard

Standard

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DUAL WATER TANK OPTIONS

- Sight level tube on passenger side water tank

\$ 341.78

HIGH PRESSURE WATER SYSTEM

COMPLIANCE/REMARKS

Myers water pump will produce 85 GPM @ 2000 PSI.

Standard

Will be a triplex, plunger style, smooth, flow design.
 Pumps that require accumulators are unacceptable.

Standard

Starting from high pressure side of water pump 1" I.D. plumbing will be used up to hose reel, including water manifold, control valve and swivels.

Standard

Swivel must be designed so it can be tightened as it wears and be rebuilt.

Standard

The water pump shall be powered by the chassis engine via transmission, heavy duty transfer case, and Hydrostatic Drive.

Standard

Water pump speed shall be fully adjustable without changing the engine RPM and shall provide a variable flow system with the change of the nozzle. Controls for starting and stopping the water pump and varying the flow and pressure shall be at the control panel.

Standard

The water pump hydrostatic system shall have a maximum system pressure of 6,000 PSI and flow capacity of 85 GPM. An integral oil to water heat exchanger with a 143,000 BTU per hour rating shall be provided.

Standard

Water pump will run independently from vacuum pump.

Standard

Will be equipped with full flow adjustable pressure regulator.

Standard

Will be equipped with gate valve on pump inlet

Standard

Pump shall be equipped with drain valves on compression chamber and at the low-pressure side at the bottom center of the pump.

Standard

Will be equipped with drain valve on pump inlet

Standard

Water pump and vacuum system shall be able to simultaneously operate in continuous duty at maximum water pressure and flow while achieving maximum vacuum.

Standard

Pressure and flow controls shall be located at the operator's control station.

Standard



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HIGH PRESSURE WATER SYSTEM - Continued

COMPLIANCE/REMARKS

Pump shall be located in a position to ensures a positive feed from water supply, and allow mechanic access to pump for maintenance without removal from unit.

Standard

The entire high pressure water system shall have an air purge system to dewater all plumbing for winterization. The air shall be supplied by chassis air system that is isolated by a high pressure ball valve and check valve.

Standard

A self-winding handgun reel with 50' of 1/2" hose with a quick connect equipped adjustable hand gun on drivers side of unit shall be provided.

Standard

HIGH PRESSURE WATER SYSTEM OPTIONS

- HXX system off main water pump 15-20 GPM can only have pressure rating less than or equal to main water pump inc. 1/2" x 50' spring rewind hose reel with 50' of 1/2" hose and pistol grip style hand gun with lance nozzle

\$ 4,029.85
- HXX system with independent water pump 10 GPM 3000 PSI 1/2" x 50' spring rewind hose reel with 50' of 1/2" hose pistol grip style hand gun with lance nozzle

\$ 10,635.08
- Soil surgeon – 8'x72" 12 jetted water suction tube used for Hydro-excavating

\$ 4,802.78
- Lat. Cleaning kit, with 150' x 1/2" sewer hose with manual hand Crank with (2) 1/2" nozzles (side mounted)

\$ 2,502.88
- Extra hand gun connection – Front

\$ 340.72
- Extra hand gun connection – Rear

\$ 340.72
- Low point drain – front mount

\$ 744.55
- Water system shall have a cold weather recirculation pump driven by a 12 volt DC electric pump and isolated from main water system by manual ball valves. System must be capable of circulating a min of 20 GPM of pressurized water through entire water system and hose reel without the use of chassis engine.

\$ 2,479.74
- Degreaser injection system with 25 gallon poly tank, electric Pump and shutoff valve

\$ 3,248.48



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VACUUM SYSTEM

COMPLIANCE/REMARKS

The Positive Displacement pump shall be a Roots/Dresser **8X24**

Standard

The vacuum pump provided shall be capable of 4734 CFM inlet volume and minimum 16" Hg.

Standard

Loaded Rating **8X24 4100CFM@16"Hg (217" H2O) 185HP@2470RPM**

Standard

Dual vacuum relief valves with one set at **15.5" Hg. and one at 16" Hg.**

Standard

The vacuum system shall have an air operated 4" vacuum relief valve which vents ambient air to blower intake to relieve vacuum in the body and suction tubes/hoses.

Standard

The blower shall be driven from chassis engine via transmission and heavy duty transfer case. Direct via universal drive shaft. To include a remote mounted transfer case sight glass.

Standard

The cyclone separator shall be built out high strength ASTM A572 grade 50 steel, capable of separating material from air stream, Separator shall remove down to 50 micron particles or coarser. The cyclone shall be 24" wide x 75" high and taper down to a dropout box 18" x 18" x 18" including a clean out hatch. 2" ball valve mounted at the bottom of the cyclone drop box

Standard

Non-skid steps with handgrips allowing safe passage from ground level to a work platform at top of unit.

Standard

The blower shall contain a high efficiency exhaust silencer with an aluminum rain cap. It will have a built-in tube rack that will hold four (4) 8" diameter suction tubes for a total of 24' of tubes. 2" ball valve mounted at the bottom of the exhaust silencer

Standard

VACUUM SYSTEM OPTIONS

- Air operated 6" vacuum relief valve. Controlled at control panel And hand held pendant \$ 3,195.90
- Upgrade to Roots/Dresser 8x24 blower 4000 CFM@ 18" Hg \$ 1,006.41
- Stainless steel strainer basket in cyclone separator \$ 800.28
- Hot dip galvanized cyclone separator \$ 2,674.29



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BOOM

COMPLIANCE/REMARKS

Boom shall be designed for front-end operation with hose mounted and stored at front bumper.

Standard

Hydraulically powered up/down, left/right, and in/out shall be accomplished with a single joy stick.

Standard

Pick-up Hose: 8" ID, front end operation and stored at front of the unit.

Standard

Will be equipped with a true tube in a tube boom telescoping section with a travel of eight (8) feet six (6) inches.

Standard

Boom shall have a total extended length of 24 feet 11 inches from centerline of the unit. Boom coverage area 552 sq. ft., submit diagram.

Standard

1,000 lb. boom lifting capacity with dual hydraulic lift cylinders. Max. lift capacity shall apply even when boom is fully extended.

Standard

Boom shall swing 90 degrees to each side of the truck via a hydraulic driven worm and ring gear.

Standard

Hydraulic cylinders to rotate boom are unacceptable.

Standard

Boom shall remain stationary and not raise with debris body.

Standard

All connections between debris body and vacuum system will be self-aligning.

Standard

Boom with steel elbow must be able to extended and retract without affecting the length of the pickup hose. Rubber hose in place of steel elbow is unacceptable.

Standard

Extra heavy duty boom elbow, shall have a preformed C channel welded to the outside radius of the outside of elbow.

Standard

BOOM OPTIONS

- Remote grease fitting for boom rotation and extension \$ 2,623.82
- Slide valve 8", air operated with switch on pendant and control panel \$ 3,285.29



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ELECTRICAL SYSTEM & LIGHTING

COMPLIANCE/REMARKS

IP66 sealed exterior electrical controls and wiring harness w/ protective cover that exceeds NEMA 4 standards.

Standard

IP 66 sealed exterior wiring harnesses w/ protective cover, with color coded wiring.

Standard

The operator panel shall be of modular design, and protect switches and controls from weather or damage using a hinged, latching steel cover.

Standard

A main power on/off rotary style switch shall be provided at drivers side frame to disconnect power to entire module for maintenance and safety purposes

Standard

LED D.O.T. lighting (includes stop, tail turn and back up)

Standard

Hand spot with 20' cord, plug in

Standard

Boom work lights

Standard

Strobe light – Front – one Whelen L22LAP Class 2 (360 degree super LED with limb guard)

Standard

Rear mounted traffic advisor bar type LED Whelen TACF85

Standard

ELECTRICAL SYSTEM & LIGHTING OPTIONS

- Hand spot with 20' cord, retractable reel \$ 452.20
- Extra spotlight receptacle rear passenger side \$ 149.33
- Rear work light – Two (Halogen) \$ 452.20
- Strobe light – Front - Two Whelen L22LAP class 2 360 degree super LED with limb guard \$ 568.93
- Strobe light – Body - One Whelen L22LAP class 2 360 degree super LED with limb guard \$ 410.14
- Strobe light – Body - Two Whelen L22LAP class 2 360 degree super LED with limb guard \$ 568.93
- Wig-Wag headlight controller \$ 966.53



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ELECTRICAL SYSTEM & LIGHTING OPTIONS - Continued

- Power module work lights – Two (Halogen) \$ 416.45
- Strobe light – front – One Whelen L21LAP class 1
360 degree super LED with limb guard \$ 521.61
- Strobe light – front – Two Whelen L21LAP class 1
360 degree super LED with limb guard \$ 828.69
- Strobe light – front – One Whelen L31HAF class 1
360 degree super bright LED with limb guard \$ 793.98
- Strobe light – front – Two Whelen L31HAF class 1
360 degree super bright LED with limb guard \$ 1,608.99
- Strobe light – Body – One Whelen L21LAP class 1
360 degree super bright LED with limb guard \$ 521.61
- Strobe light – Body – Two Whelen L21LAP class 1
360 degree super bright LED with limb guard \$ 828.69
- Whelen corner strobe light – specify quantity & location \$ 460.62
- Strobe light – front – Two mirror mounted whelen L22LAP Class 2
360 degree super LED with limb guard \$ 983.28

HOSE REEL AND OPERATOR STATION

COMPLIANCE/REMARKS

The front mounted reel shall have the ability to articulate 230 degrees across the front of the unit, with a capacity of 600feet of 1" hose. The operator will easily be able to rotate and lock the reel at any angle desired within the rotation.

Standard

The hose reel will be hydraulically powered in both directions by a hydraulic motor coupled directly to a planetary gearbox, chain and sprockets are unacceptable due to excessive wear and maintenance.

Standard

Hose reel control valve shall have a speed control device to regulate the rotational speed of the reel in both directions.

Standard



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HOSE REEL AND OPERATOR STATION- Continued

COMPLIANCE/REMARKS

Hose reel will rotate on a turntable slewing bearing with a friction brake that can be applied in any rotated position, gears mounted on hose reel bearing not acceptable due to missed positions that teeth and pawl don't line up.

Standard

Hose reel brake band must be adjustable with turn buckle and be applied by an air cylinder.

Standard

Hose reel must be mounted in the center of the chassis frame rails and not rotate out of centerline of frame rails into traffic for safety.

Standard

The hose reel shall tilt forward for access to the truck engine via hydraulic cylinder powered by an electric/power pack.

Standard

Electric power pack shall run independently from main system. Power pack shall operate whether truck engine is running or not.

Standard

Dual roller telescoping level wind on hose reel shall be supplied.

Standard

Footage counter on LCD Display shall be supplied.

Standard

A Blockbuster valve shall be installed

Standard

HOSE REEL AND OPERATOR STATION - Options

| | |
|---|--------------------|
| • Hose tensioner air operated | <u>\$2,574.40</u> |
| • Remote grease manifold for rotate bearing 2 swivels, pillow block & pivots pins 6 total hose reel | <u>\$ 815.02</u> |
| • Lexan splash shield | <u>\$ 1,577.45</u> |
| • Hose reel foot controls | <u>\$ 1,952.88</u> |
| • Front reel low profile with 600' capacity 1" hose | <u>\$ 1,067.40</u> |
| • Front reel 1000' capacity 1" hose | <u>\$ 2,998.20</u> |
| • Automatic level wind | <u>\$ 5,401.18</u> |



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CONTROLS & GAUGES

COMPLIANCE/REMARKS

| | |
|---|-----------------|
| Color LCD display with 32 output microprocessor control (expandable) W/J1939 CAN communication | <u>Standard</u> |
| Transfer case shift controls in cab | <u>Standard</u> |
| Throttle control at hose reel control panel | <u>Standard</u> |
| Water pressure gauge on LCD display module | <u>Standard</u> |
| Tachometer/ Hour meter on color LCD display module | <u>Standard</u> |
| Vacuum Gauge on color LCD display module | <u>Standard</u> |
| Hydraulic Pressure Gauge. | <u>Standard</u> |
| Truck Engine Throttle-electrically controlled at hose reel. | <u>Standard</u> |
| Water pump on/off switch | <u>Standard</u> |
| Throttle protection emergency (returns to idle) | <u>Standard</u> |
| Reel tilt. | <u>Standard</u> |
| On/Off Water Flow Valve. | <u>Standard</u> |
| Single Reel control joystick for direction and speed control | <u>Standard</u> |
| Single Boom Control Joystick to control all boom functions. | <u>Standard</u> |
| Remote Pendant Push Button Control. | <u>Standard</u> |
| Water pump hour meter on color LCD display module | <u>Standard</u> |
| Blower hour meter on color LCD display module | <u>Standard</u> |
| Blower temp gauge connected to air operated relief valve | <u>Standard</u> |
| Hose Reel Articulation Brake valve | <u>Standard</u> |
| Cab Air Shifts for Power Systems. | <u>Standard</u> |
| Electric back alarm | <u>Standard</u> |
| Override switch for low water light and alarm | <u>Standard</u> |

CONTROLS & GAUGES OPTIONS

| | |
|--|--------------------|
| • Debris tank high level light | <u>\$ 614.15</u> |
| • Debris tank high level light hooked to vacuum relief | <u>\$ 775.05</u> |
| • Debris tank high level light & horn | <u>\$ 775.05</u> |
| • Boom, body and tailgate aux. hydraulics (powered by hose reel) | <u>\$ 1,606.90</u> |



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CONTROLS & GAUGES OPTIONS – Continued

| | |
|---|-------------|
| • Reel shift for transfer case | \$ 1,665.78 |
| • Additional emergency stop | \$ 472.18 |
| • Two channel camera system with 7” swivel color LCD monitor | \$ 4,615.60 |
| • All smart flow communications package | \$ 621.50 |
| • Dual control panel mounts & wiring (This allows driver to move panel from driver side to passenger side) | \$ 1,389.20 |
| • Throttle, Vac relief valve , E stop (returns engine to idle) water pump Speed control via toggle switch. Also includes high resolution color display screen. Displays water pressure, vacuum HG blower speed, water pump speed & blower temp – includes wireless pendant | \$ 4,029.84 |
| • Wireless remote control to control all boom functions | \$ 3,006.12 |
| • Hydraulic tool circuitry side mounted | \$ 577.35 |
| • Curbside mounting of water manifold and hydraulic control valve | \$ 2,530.25 |

HYDRAULIC SYSTEM

Will produce 18 GPM at 2000 PSI, 1800 RPM

Pump shall be transfer case -mounted piston pump
with test ports for troubleshooting

The hydraulic reservoir shall be a modular component
with a minimum of 40 gallons with a level sight eye and
temperature gauge.

Filters shall be installed at both the suction and return lines.

Filters shall be no less than ten (10) microns with shutoff valves
installed on suction lines.

COMPLIANCE/REMARKS

Standard

Standard

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ACCESSORIES INCLUDED

One (1) steel toolboxes with a minimum of 18"x18"x36" shall be installed on both passenger and divers side frame rails to allow easy access without excessive reach or need for steps or stairs.

Frame Mounted traffic cone holder shall be supplied

Nozzle Rack – in toolbox

Rear door tube rack- holds (2) tubes

24 feet of 8' aluminum tubing. With crown nozzle.

500 feet of 1" x 2500-PSI sewer hose will be installed on the reel.

1" x 10' safety leader hose

1" radial, dual degree nozzle

24'x 8" band lock type aluminum vacuum tubes (1)8' tube (2)5' tubes (2)3' tube

1" nozzle extension – 12" long finned type

Manhole bottom hose guide (Tiger Tail type)

A 25' x 2-1/2" fill hose with quick connect fittings

One (1) set of Operation & Maintenance manuals.

Lube Chart

COMPLIANCE/REMARKS

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

ACCESSORIES OPTIONS

- Rear door tube rack – holds (3) tubes \$ 829.74
- Rear door tube rack – holds (4) tubes \$ 974.86
- Behind cab aluminum cross body toolbox 16.5 x 42 x 60 single door. Drives side – 2 drawers and shelf \$ 2,700.58
- Toolbox back of cab x-body aluminum 1 door each 96"x 36"x 16" \$ 2,418.75
- Additional lockable toolbox – steel 18" x 18" x 36" \$ 919.12
- Additional lockable toolbox – aluminum 18" x 18" x 36" \$ 1,325.05



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ACCESSORIES OPTIONS - Continued

| | |
|--|-------------|
| • Traffic cone holder | \$ 209.28 |
| • One (1) upgrade to aluminum toolbox 18"x18"x36" | \$ 409.08 |
| • 1" Nozzle extension 15" long standard | \$ 126.20 |
| • 1" Phantom grenade nozzle – 80 GPM @ 2000 PSI | \$ 790.82 |
| • 1" Chisel point nozzle – 80 GPM @ 2000 PSI | \$ 337.57 |
| • 1" Super chisel point nozzle – 80 GPM @ 2000 PSI | \$ 765.58 |
| • 1" Spider 50 nozzle – 80 GPM @ 2000 PSI | \$ 2,129.56 |
| • 1" Aquadrill nozzle – 80 GPM @ 2000 PSI | \$ 423.80 |
| • 1" Spider 60 nozzle – 80 GPM @ 2000 PSI | \$ 1,700.48 |
| • 1" Torpedo nozzle – 80 GPM @ 2000 PSI | \$ 289.20 |
| • 1" Fluke nozzle – 80 GPM @ 2000 PSI | \$ 1,021.11 |
| • 1" Bulldozer nozzle – 80 GPM @ 2000 PSI | \$ 3,153.84 |
| • 1" Power bulldozer nozzle – 80 GPM @ 2000 PSI | \$ 3,665.98 |
| • 1" all star kit with grenade – 80 GPM @ 2000 PSI | \$ 2,608.04 |
| • 1" all star kit with phantom – 80 GPM @ 2000 PSI | \$ 2,651.16 |
| • 1" spinner nozzle – 80 GPM @ 2000 PSI | \$ 765.58 |
| • 1" spinner forward firing nozzle – 80 GPM @ 2000 PSI | \$ 765.58 |
| • Additional tiger tail hose protectors | \$ 65.20 |
| • 8" x 6" band lock type reducer | \$ 166.16 |
| • 8" x 3' band lock type reducer aluminum fluidizing tube | \$ 302.87 |
| • 8" x 3' band lock type reducer aluminum catch basin tube | \$ 176.67 |
| • 8" x3' band lock type aluminum tube | \$ 132.50 |



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ACCESSORIES OPTIONS - Continued

| | |
|---|-------------|
| • 8" x4' band lock type aluminum tube | \$ 155.60 |
| • 8" x5' band lock type aluminum tube | \$ 165.10 |
| • 8" x6' band lock type aluminum tube | \$ 232.40 |
| • 8" x7' band lock type aluminum tube | \$ 263.95 |
| • 8" x 8' flat flanged aluminum tube | \$ 295.50 |
| • 8" Travis irrigation clamp | \$ 30.50 |
| • 8" operators handle | \$ 292.40 |
| • 24'X8" flat flanged style aluminum vacuum tubes | \$ 1,394.46 |

MOUNTING

The unit will be Factory mounted on a customer supplied cab & chassis.

COMPLIANCE/REMARKS

Standard

TRAINING

We will provide a factory authorized training person for one (1) day. The purpose shall be to train operating and maintenance personnel On the proper O & M procedures. One (1) O & M Manual shall be Provided at delivery.

Standard

PAINT

The unit will be powder coated a singular color using phosphorous wash, Static charged, oven cured process to match the required color

Color & Code: _____

Standard



Vacuum Sales, Inc.

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WARRANTY

The unit will have a minimum of one-year warranty against defects in material and workmanship. The warranty will cover both parts and labor.

All other warranties that exceed one year shall apply.

Aluminum Water Tanks have a limited lifetime warranty.

Stainless Steel or Galvanized Debris Body has a limited lifetime warranty.

Manufacturer must be Certified ISO 9001 Certified

COMPLIANCE/REMARKS

Standard _____

Standard _____

Standard _____

Standard _____

Standard _____