

**State of Florida
Department of Transportation**



INVITATION TO BID
Truck Mounted Sewer Cleaner

DOT-ITB-24-9013-DG

EFFECTIVE DATES

November 6, 2023 - November 6, 2025

VENDOR

Environmental Products Group, Inc. - CR808

BID SHEET (Page 1 of 5)

BID #: DOT-ITB-24-9013-DG

FOB: STATEWIDE

BID TITLE: TRUCK MOUNTED SEWER CLEANER

VENDOR NAME: Environmental Products Group, Inc. FEID#: 59-3757718

ITEM 1

PRICE PER UNIT DELIVERED TO ANY FDOT LOCATION IN FLORIDA.

TRUCK MOUNTED SEWER CLEANER, PER SPECIFICATIONS FC 1420,

Base price installed on FDOT carrier (must be finished turn-key unit): \$ 372,247

Manufacturer and Model: Vactor 2100i

Delivery 90 days after receipt of carrier.

ITEM 2

MAY OR MAY NOT BE PURCHASED AT DISCRETION OF THE FDOT

PRICE PER UNIT DELIVERED TO ANY FDOT LOCATION IN FLORIDA.

TRUCK MOUNTED SEWER CLEANER, PER SPECIFICATIONS FC 1420,

Base price installed on vendor provided carrier (must be finished turn-key unit): \$ 512,247

Manufacturer and Model: Vactor 2100i / Western Star 4700 Chassis

Delivery 180 days after receipt of carrier.

BID SHEET (Page 2 of 5)

BID #: DOT-ITB-24-9013-DG

FOB: STATEWIDE

BID TITLE: TRUCK MOUNTED SEWER CLEANER

VENDOR NAME: Environmental Products Group, Inc. FEID#: 59-1757718

**OPTION: MAY OR MAY NOT BE PURCHASED AT DISCRETION OF THE FDOT.
(OPTION PRICE WILL NOT BE CONSIDERED AS BASIS OF AWARD)**

BIDDERS MUST SUPPLY A LIST OF ALL ADDITIONAL OPTIONS SHOWN BELOW THAT ARE AVAILABLE FROM THEM. A DESCRIPTION OF EACH ITEM OFFERED MUST BE PROVIDED.

Option 9.1 "Block Buster" type valve to connect to jet rodding hose.

Manufacturer and model number: Vactor Accumulator

Unit Price \$ Standard

Option 9.2 Hydraulic power tool option:

Manufacturer and model number: Vactor Supplied

Unit Price \$ 1,842

Option 9.3 Vacuum while driving switch (vacuum breaker override).

Manufacturer and model number: Vactor Supplied

Unit Price \$ 41,221

Option 9.4 Rear vision back up camera and monitor.

Manufacturer and model number: Vactor Supplied

Unit Price \$ Standard

Option 9.5 Cone storage rack.

Manufacturer and model number: Vactor Supplied

Unit Price \$ 206

BID SHEET (Page 3 of 5)

BID #: DOT-ITB-24-9013-DG

FOB: STATEWIDE

BID TITLE: TRUCK MOUNTED SEWER CLEANER

VENDOR NAME: Environmental Products Group, Inc.

FEID# 59-1757718

Option 9.6 Boom lights.

Manufacturer and model number: Vactor Supplied

Unit Price \$ 1,005

Option 9.7 Cyclone

Manufacturer and model number: Vactor Supplied

Unit Price \$ 6,730

Option 9.8 Hose reel support foot.

Manufacturer and model number: N/A - Not Necessary. Reel Mounted to Full Subframe

Unit Price \$ Standard

Option 9.9 Hydrostatic blower drive.

Manufacturer and model number: N/A - Blower Gear Driven by Heavy Duty Transfer Case

Unit Price \$ n/a

Option 9.10 Gravity drain for hydraulic pump off – plumbed to front bumper.

Manufacturer and model number: Vactor Supplied

Unit Price \$ 3,702

Option 9.11 10' telescopic boom in lieu of 6' telescopic boom.

Manufacturer and model number: Vactor Supplied

Unit Price \$ Standard

Option 9.12 Rear work lights.

Manufacturer and model number: Vactor Supplied

Unit Price \$ 816

BID SHEET (Page 4 of 5)

BID #: DOT-ITB-24-9013-DG

FOB: STATEWIDE

BID TITLE: TRUCK MOUNTED SEWER CLEANER

VENDOR NAME: Environmental Products Group, Inc.

FEID#: 59-1757718

Option 9.13 50' hand gun hose reel with hose.

Manufacturer and model number: Vector Supplied

Unit Price \$ 1,861

Option 9.14 5" culvert nozzle.

Manufacturer and model number: KEG 8 Jet

Unit Price \$ 3,911

Option 9.15 Grenade nozzle.

Manufacturer and model number: Enz Nozzle

Unit Price \$ 1,133

Option 9.16 Storm nozzle and assembly.

Manufacturer and model number: Vector Supplied

Unit Price \$ Standard

Option 9.17 High – dump option.

Manufacturer and model number: Vector Supplied

Unit Price \$ Standard

Option 9.18 Use additional pages as needed.

ITEM DESCRIPTION: _____

Manufacturer and model number: _____

Unit Price \$ _____

BID SHEET (Page 5 of 5)

ITBTERMSHELL.COMM - 2/1/2021

BID #: DOT-ITB-24-9013-DG

FOB: Statewide

BID TITLE: Truck Mounted Sewer Cleaner

DELIVERY: Delivery will be made within _____ days after receipt of Purchase Order.

Is this product available with recycled content? Yes No

If yes, please send information separate from this Invitation to Bid (See Recycled Material Special Condition for more information).

RENEWAL: see Introduction Section #7.

MFMP Transaction Fee:

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the attached Form PUR 1000 General Contract Condition #14. The Transaction Fees imposed shall be based upon the date of issuance of the payment.

NOTE: In submitting a response, the bidder acknowledges they have read and agree to the solicitation terms and conditions and their submission is made in conformance with those terms and conditions.

ACKNOWLEDGEMENT: I certify that I have read and agree to abide by all terms and conditions of this solicitation and that I am authorized to sign for the bidder. I certify that the response submitted is made in conformance with all requirements of the solicitation.

Bidder: Environmental Products Group, Inc. FEID# 59-1757718

Address: 700 Hermit Smith Rd. City, State, Zip: Apopka FL 32703

Phone: 904-537-8799 E-mail: ncausey@myepg.com

Authorized Signature: *Nick Causey* Date: 10/18/2023

Printed/Typed: Nick Causey Title: Sales Manager

**FLORIDA DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION**

Specification Number: **FC1420**

Date: **May 12, 2023**

Unit of Equipment: **Truck Mounted Sewer Cleaner**

ATTENTION PROSPECTIVE SUPPLIERS: In order for your bid on this equipment to be considered, all questions in this specification must be answered and all information asked for must be supplied. Incomplete or inappropriate (i.e., responding "yes" or "no" when specific information is asked for) responses will result in your bid being rejected.

1.0 INTENT: It is the intent and purpose of this specification to describe and set standards for truck-mounted sewer cleaners, to be used for highway drainage system and other roadway maintenance.

Yes

Understand and acknowledge? (Yes/No)

1.1 QUALIFICATION OF MANUFACTURER AND MODEL: The unit required and covered by this specification shall be the manufacturer's latest basic production model and shall be equipped with all standard equipment in accordance with the manufacturer's latest data, two copies of which must accompany the bid along with all specifications necessary to verify that the unit meets or exceeds all requirements stated herein.

Yes

Understand and acknowledge? (Yes/No)

Blower and pump performance curves showing horsepower, RPM, vacuum, and flow must be included.

Yes

Understand and acknowledge? (Yes/No)

No prototype machines are allowed. The unit bid must have basically been in production for a minimum of one year.

Yes

Comply? (Yes/No)

1.1.1 This contract will not be awarded until the FDOT Office of Maintenance is satisfied that the equipment proposed will meet the specification in every way. This may require interviews, documentary evidence, an equipment demonstration and inspection at an FDOT location of our choosing, or any combination of the above. Prospective suppliers will be expected to be fully cooperative with providing any reasonable evidence of specification compliance by the above methods. A maximum of 60 days between bid opening and contract award may be required for this process. After contract award, specification compliance will be reconfirmed by inspection, documentation, and demonstration when the first and subsequent items are delivered, prior to acceptance.

Yes

Understand and acknowledge? (Yes/No)

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1.1.2 Parts and Service:

- A.** Service capability: To be eligible for award, bidders must have, within the State of Florida, facilities, skilled and trained personnel, equipment and parts available to completely service, maintain, and repair the equipment offered.
- B.** Parts availability: The vendor shall maintain an adequate stock of replacement parts and shall make deliveries within 24 hours when requested.
- C.** Pricing: The manufacturer and bidder shall guarantee that parts prices will be as low as such parts are sold to any other user and that if at any time the prices are reduced or increased to the general trade, it is understood that the FDOT shall not pay a higher price than any other user, effective with the date of such price reduction or increase to the general trade.
- D.** Post delivery inspection: Bidder shall include in the bid price the cost of a post delivery inspection service of the equipment, approximately 30 days after it is placed in service. The inspection shall be performed by skilled and trained factory or dealer personnel. The inspection service shall include the following:

- Check all operating systems for proper operation and adjustment.
- Check equipment visually for leaks, material defects, and any other defects.
- Check all fluid levels.

Vendor shall notify the FDOT at least twenty-four (24) hours prior to performing inspections.

Yes

Understand and comply with or accept all provisions of Parts and Service? (Yes/No)

1.2 DEFINITIONS:

- 1.2.1** "Approved Equivalent". Bidders may substitute components for those listed only if written approval (FAX is permitted) is granted by the FDOT prior to bid opening. If this has not been accomplished by bid opening time, your bid will be rejected. The FDOT assumes no responsibility for responding to requests for approval of alternates in time for bid opening, as a technical evaluation frequently must be performed. Therefore, bidders are cautioned that quoting of the components listed may be advisable if lead time is short.

Note: Inadvertent acceptance of previous bids with alternate components shall not be construed as FDOT approval of such alternate components.

Yes

Understand and acknowledge? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
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1.2.2 Manufacturer's model numbers: when a manufacturer's model number is stated, it is understood that design changes to the stated model by the manufacturer are not subject to the control of the FDOT and that the intent is to procure an item substantially identical to that version last procured by, demonstrated to, or otherwise brought to the attention of the FDOT. It is explicitly understood that it is the responsibility of the bidder to notify the FDOT of any changes of consequence, and obtain approval per 1.2.1. Please contact the person named on the bid documents for information regarding the last model for which information is on record with the FDOT bid evaluators.

Yes _____

Understand and acknowledge? (Yes/No)

1.2.3 "Heavy Duty". This term means that the design and construction of the item is sufficiently rugged and has adequate safety factor to stand up to the sort of use typically expected to be experienced by FDOT operators without structural or functional failure or other consequences such that the item causes or will probably cause excessive down time. The FDOT may accept or reject items bid based on judgment of compliance with this provision without the necessity for a field trial, or testing.

Yes _____

Understand and acknowledge? (Yes/No)

1.2.4 "Per (spec)". Whenever a specification such as SAE, OSHA, or FED-STD (but not limited to those) is referred to, the latest version as of the date of bid request is the version to be used.

Yes _____

Understand and acknowledge? (Yes/No)

1.3 WEIGHTS AND MEASUREMENTS:

1.3.1 Weight: Gross weight of the loaded unit shall not exceed 66,000 lbs. The rear axle loading shall not exceed 46,000 lbs. and the front axle loading shall not exceed 20,000 lbs.

Note: "Loaded" means that there is 1,000 gallons of water on board, which shall be taken to weigh 8,345 lb., 7.00 cubic yards of debris which shall be taken to weigh 21,500 lb, 100 gallons of fuel which shall be taken to weigh 670 lb, and two crewmen at 200 lb each.

EMPTY: FRONT: 17,946, REAR: 22,810, TOTAL: 40,756

FULL: FRONT: 17,322, REAR: 33,934, TOTAL: 51,256

71,001 Total - Front - 21,360 - Rear - 49,641

Axle loadings - front, rear, and total, loaded.

Information clearly showing the unloaded and fully loaded weights and the respective weight distributions shall be submitted with the bid.

Yes _____

Information submitted? (Yes/No)

1.3.2 Height: Overall height shall not exceed 13.5 ft.

12.4' _____

Height?

**FLORIDA DEPARTMENT OF TRANSPORTATION
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1.3.3 Width: Overall width shall not exceed 8 ft.

8'

Width?

1.3.4.1 Noise Level at Operator's Station: In accordance with OSHA requirement 29 CFR Ch. XVII Para. 1910.95, the noise level shall not exceed 95 decibels, A scale, slow response, for a 4 hour exposure per workday.

94 dB

Noise level?

2.0 CARRIER:

Unless option for vendor supply of the carrier is exercised, the carrier will be supplied by the FDOT. It is understood that either way the successful bidder will provide a totally finished unit ready for use. The successful bidder shall specify to the FDOT the minimum chassis requirements including HP, GVWR, GAWRs, RBM, CA, PTO provisions and any other feature necessary for the proper operation of the sewer cleaner. **This shall be done with the bid package.** Bidder shall supply information such that the resulting vehicle will be capable of 65 mph on level pavement. The combined cost of the carrier and the sewer cleaner unit will be considered for bid award. The FDOT will notify the successful bidder when the chassis is available for pick up. Pick up and delivery of the unit shall be at the Purchase Order destination unless specified otherwise. See applicable option.

Yes

Understand and acknowledge? (Yes/No)

2.1.1 If Carrier is provided by the vendor, then carrier must be supplied with automatic-adjustable volume backup alarm. Must meet latest issue of SAE J994, Type F, 112 dB (A) factory or dealer installed. ECCO model SA-917N, WHELEN model WBUA112, or approved equivalent.

Yes

Comply? (Yes/No)

3.0 SEWER CLEANER MECHANISM:

3.1 Single Engine / Positive Displacement Blower type:

3.1.1 General: This type unit will utilize the carrier engine to drive the sewer cleaner and provide power for all functions. There will be no auxiliary engine. A minimum of 160 hp shall be available to drive the vacuum unit.

Yes

Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
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3.1.2 Drive: Describe below the type drive proposed. State the horsepower and rpm at which each component is driven and the resulting vacuum or pressures and flow rate at said horsepower and rpms. Describe provisions for variable speed. **Provide a complete description. Your bid may be rejected if information is incomplete.** Use extra pages if necessary. See also 1.1.

*SINGLE ENGINE DESIGN: The Vactor 2100i uses a water pump that is hydraulically powered and the PD Blower is powered by a heavy duty transfer case.

TOTAL HP REQUIRED: 370 HP
(Description of drive as requested above)

3.1.3 Vacuum Unit: The vacuum unit shall be capable of at least 14.5"Hg vacuum and 3,000 cubic feet per minute flow at 160 Hp input. The vacuum unit shall be capable of at least 13.0"Hg vacuum and 1,000 cubic feet per minute flow at 100 Hp input.

16" of Vacuum with 70 GPM Water Flow

Vacuum and flow with 160hp input?

13" HG of Vacuum with 70 gpm Water Flow

Vacuum and flow with 100hp input?

Roots 824 RCS PD BLower

Type, make, and model of vacuum unit?

3.1.4 Water Pump: The high pressure water pump shall be a well known brand and shall deliver 60 gallons per minute at a pressure of 3,000 psi, minimum.

Vactor Manufacturing, Single Piston Pump, 70 GPM @ 3,000 PSI

Brand, model, flow, pressure

Vactor Manufacturing

Model bid to this specification.

3.1.5 Total horsepower - What is the total horsepower available for the combined vacuum unit and water pump for this model?

370 HP

Total horsepower available?

16"HG/3,400 CFM 60/3,000 = 284 (REQUIRED TO OPERATE COMPONENTS)

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4.0 BODY:

4.1 The debris body shall have a minimum useable capacity of 9.0 cubic yards.

10-Yards
Capacity?

4.2 A debris body high pressure wash out system shall be provided.

Yes
Comply? (Yes/No)

4.3 A trash pump off system with a minimum capacity of 450 G.P.M. shall be provided.

Yes
Comply? (Yes/No)

500 GPM
Capacity? (G.P.M.)

4.4 The rear door on the body shall latch hydraulically with a watertight seal.

Yes
Comply? (Yes/No)

4.5 Satisfactory means shall be provided for removal of excess water from the debris body. Describe below.

We have a 6" Decant at the 3 O'Clock Position with a Butterfly Valve
Description

4.6 There shall be filter screens in the debris body, made of stainless steel.

Yes
Comply? (Yes/No)

4.7 At least one body vacuum hose connection, 8 in. minimum diameter, shall be provided.

Yes
Comply? (Yes/No)

4.8 The body may use either tilt or ejection dumping. Tilt dumps shall have, at a minimum, a National Truck Equipment Association Class 70 double acting hoist with a minimum dump angle of 45 degrees. A tilt dump must be equipped with safety props.

Yes
Comply? (Yes/No)

4.9 A liquid level shut off device shall be provided to prevent over filling of the debris body.

Yes
Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION**

Specification Number: **FC1420**

Date: **May 12, 2023**

Unit of Equipment: **Truck Mounted Sewer Cleaner**

4.10 The unit shall have a debris body vacuum relief system with audio and visual alarms.

Yes

Comply? (Yes/No)

5.0 WATER TANKS:

Water tanks for the jet rodding system shall have a minimum useable volume of 1,000 gal. and shall be made from a corrosion resistant material.

Yes

Comply? (Yes/No)

1,000 Gallons

Useable volume?

Polished Aluminum

Material?

1/8"

Thickness?

5.2 The water tanks shall include overfill protection and a sight level gauge.

Yes

Comply? (Yes/No)

5.3 A minimum 25 ft. hose, 2 in. diameter, water meter, and necessary fittings and adapters to fill the water tanks from a fire hydrant shall be provided.

Yes

Comply? (Yes/No)

5.4 Water tanks shall be capable of being filled from either side of truck.

Yes

Comply? (Yes/No)

6.0 HIGH PRESSURE HOSE AND REEL:

6.1 A pivoting hose reel for the high-pressure jet rodding system shall be provided.

Yes

Comply? (Yes/No)

6.2 The hose reel shall be filled with a minimum of 500 ft. of 1 in. diameter high pressure, abrasion resistant hose rated for 3,000 PSI working pressure and 7,500 psi burst pressure. Reel total capacity shall be a minimum of 600 ft. of 1 in. diameter hose.

Yes

Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION**

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Date: **May 12, 2023**

Unit of Equipment: **Truck Mounted Sewer Cleaner**

6.3 A level wind guide device shall be provided to control the winding and unwinding of the rodder hose from the hose reel.

Yes

Comply? (Yes/No)

6.4 A length counter shall be provided on the hose reel.

Yes

Comply? (Yes/No)

6.4 Complete operating controls shall be provided on the side of the hose reel. An engine emergency shutdown switch shall be included.

Yes

Comply? (Yes/No)

6.6 A guide tube shall be provided to prevent abrasion of the high-pressure hose.

Yes

Comply? (Yes/No)

6.7 A low water alarm and light shall be mounted on the hose reel.

Yes

Comply? (Yes/No)

7.0 VACUUM HOSE BOOM:

7.1 The vacuum hose shall be supported by a hydraulically operated boom located above the debris tank with a minimum lift rating of 700 lb.

1,000 lbs

Lift rating lb.?

Yes

Comply? (Yes/No)

7.2 The boom shall telescope to allow positioning of the vacuum hose up to 21' ft. from the truck centerline.

27' 1/2"

Length ft.?

Yes

Comply? (Yes/No)

7.3 The boom shall rotate a minimum of 180 degrees.

180 Degrees

Rotation?

Yes

Comply? (Yes/No)

7.3 Boom motion shall be controlled by a pendant control, easily accessible to operator when using vacuum hose.

Yes

Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION**

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Date: **May 12, 2023**

Unit of Equipment: **Truck Mounted Sewer Cleaner**

8.0 TOOLS & ACCESSORIES: The following shall be provided, at a minimum.

8.1 High pressure flushing nozzles: 15 degree, 35 degree and a 1 in. diameter finned nozzle extension shall be provided.

Yes

Comply? (Yes/No)

8.2 A hand sprayer with 25 ft. of hose mounted at the center of the body, street side, with spring loaded take up reel shall be provided.

Yes

Comply? (Yes/No)

8.3 Two (2) aluminum catch basin tube extensions, 8 in. diameter and 7 ft. long, minimum shall be provided.

Yes

Comply? (Yes/No)

8.4 Two (2) aluminum catch basin tube extensions, 8 in. diameter, 2 ft. and 4 ft. long, respectively, shall be provided.

Yes

Comply? (Yes/No)

8.5 A grate lifting hook for storm drains shall be provided on the boom.

Yes

Comply? (Yes/No)

8.6 Pull or fold down racks or racks easily accessible from ground level to accommodate a minimum of 40 feet of extensions shall be provided.

Yes

Comply? (Yes/No)

8.7.1 Lockable tool boxes all keyed alike shall be provided to carry tools and accessories. Tool boxes shall be constructed of steel or aluminum with water seal. An additional Tool box with minimum dimensions of 18 in. x 18 in. x 48 in. for FDOT use shall be provided on the right side of the truck.

Yes

Comply? (Yes/No)

8.7.2 An FDOT approved flashing arrow board shall be provided mounted on the rear of the vehicle. A list of FDOT approved flashing arrow boards will be available at the following internet web link: <http://www.fdot.gov/programmanagement/ProductEvaluation/Default.shtm>

Yes

Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
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8.7.3 Provide amber strobe lights, minimum of two Class 2 strobe light that meets the Society of Automotive Engineers Recommended Practice SAE J595, or SAE J845. The amber strobe lights shall be of high intensity amber or white rotating, flashing, oscillating or strobe light. Lights shall be unobstructed by ancillary vehicle equipment such as ladders, racks, or booms. If the light is obstructed, additional lights will be required.

Yes

Comply? (Yes/No)

8.9 Hand light with bumper plug must be provided.

Yes

Comply? (Yes/No)

9.0 **OPTIONS:** May or may not be purchased at discretion of the FDOT. Option 9.1 price may be considered as basis of award all other options are not considered as part of the award. It is recognized that not all bidders offer all options listed; there is no penalty for not bidding an option. It is also recognized that some bidders may offer optional features which are standard equipment with others. The FDOT will make every reasonable effort to evaluate bids based on comparable equipment. List all prices and deliveries that apply on cost sheet.

9.1 Carrier supplied by vendor. Provide complete information on carrier proposed, delivery time and price. Carrier must be a heavy duty, air conditioned, and diesel powered truck with automatic transmission. Color must be number 13538 of FED-STD-595. DOT Yellow (DuPont Centari L9069A, Freightliner 3258, International 4421) or approved equivalent.

9.2 Provide "Block Buster" type valve to connect to jet rodding hose.

9.3 Hydraulic power tool option.

9.4 Vacuum while driving switch (vacuum breaker override).

9.5 Rear vision back up camera and monitor.

9.6 Cone storage rack.

9.7 Boom lights.

9.8 Cyclone.

9.9 Hose reel support foot.

9.10 Hydrostatic blower drive.

9.11 Gravity drain for hydraulic pump off - plumbed to front bumper.

9.12 10' telescopic boom in lieu of 6' telescopic boom.

9.13 Rear work lights.

9.14 50' hand gun hose reel with hose.

**FLORIDA DEPARTMENT OF TRANSPORTATION
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9.15 5" culvert nozzle.

9.16 Grenade nozzle.

9.17 Storm nozzle and assembly.

9.18 High - dump option.

9.19 Bidders must supply a list of all options shown above that are available from them, as well as all other available options, priced individually, as an attachment to the bid. A description of each item offered must be provided.

Yes

Comply? (Yes/No)

10.0 PAINTING AND MARKING:

PAINTING: All exterior mounted components furnish by the supplier shall be painted to match the carrier, except small items of hardware may be gloss black. The paint system should include the following steps, as a minimum:

1. All surfaces shall be ground smooth with welding slag, burrs and sharp edges removed.
2. All surfaces shall be sandblasted and then immediately receive one (1) coat of rust inhibitive primer.
3. All primed surfaces shall receive two (2) coats of premium grade automotive enamel to match Yellow # 13538 of Federal Standard 595. DOT Yellow (DuPont Centari L9069A, Freightliner 3258, International 4421).

NOTE: If requested, a paint chip will be furnished to the successful bidder by the FDOT.

Yes

Comply? (Yes/No)

CONSPICUITY MARKING: A single 2 in. wide, red/white strip of reflective tape shall be applied so as to cause the limits of the truck from any angle to be visible at night when illuminated by oncoming traffic. The tape should be applied at a maximum height of 4 ft, but may vary according truck or body configuration. On the rear of the vehicle the tape will be applied to the upper portion of the bumper. Gaps in the tape where members protrude or the configuration does not lend itself to tape application will be normal. ORALITE V82 DOT-C2 Conspicuity Sheeting, is an approved source for this type of reflective tape. Their type V82 DOT-C2 Conspicuity Sheeting Red/White is currently being used by the FDOT. Other brands of reflective tape will require prior approval by FDOT.

Yes

Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION**

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Unit of Equipment: **Truck Mounted Sewer Cleaner**

11.0 CONDITIONS: Terms and conditions set forth in the bid documents will overrule this specification when there is disagreement between the specification and bid documents.

Yes

Understand and acknowledge? (Yes/No)

11.1 DELIVERY AND ACCEPTANCE:

11.1.1 Prior to delivery, a first article inspection may be performed by the Mobile Equipment Manager and his designee at the vendor's facility to ensure that the first machine procured on this contract meets all specification requirements. Preferably, the inspection will take place prior to painting with the unit fully operational. The vendor will advise the contact person(s) named at the end of this specification a minimum of two weeks before the machine will be ready for inspection.

Yes

Comply? (Yes/No)

11.1.2 Travel costs incurred by FDOT personnel performing the first article inspection shall be paid for by the vendor. Estimates for the travel costs should include transportation, meals and lodging for two (2) persons from any location in Florida to the vendor's facility and back with at least one full day allotted for the inspection.

Yes

Comply? (Yes/No)

11.1.3 Items found to not be in compliance will be corrected and brought into compliance before final acceptance. Travel expenses for additional visits required by FDOT personnel to the vendor's facility to verify correction of deficiencies discovered in the first inspection shall also be paid for by the vendor. After all items on the machine are determined to be in compliance, the unit may then be taken by the supplier to the Purchase Order destination. All subsequent units purchased from this contract will be inspected at their Purchase Order destinations for compliance with the specifications.

Yes

Comply? (Yes/No)

At the discretion of FDOT, the first article inspection at the vendor's facility may be waived or relocated to a more convenient site, if it is determined that it would be in the best interest of the State. In any case, the machine is still required to fully comply with the specification requirements.

Yes

Understand and acknowledge? (Yes/No)

11.1.4 Failure of FDOT personnel to discover defects during an inspection does not relieve the vendor from responsibility for correcting areas of non-compliance found after delivery.

Yes

Understand and acknowledge? (Yes/No)

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Unit of Equipment: **Truck Mounted Sewer Cleaner**

11.2 STANDARDS:

11.2.1 The unit shall comply with all Motor Vehicle Safety Standards as established by the U.S. Department of Transportation, all requirements of the latest issues of ANSI Standards and OSHA Standards, and all other required Federal and State of Florida legal requirements and standards.

Yes _____

Comply? (Yes/No)

11.3 DOCUMENTATION: Bidders must submit two (2) copies of current manufacturer's data to substantiate compliance with the specifications, and a list of dealers in or near Florida.
These must be included with the bid documents.

Yes _____

Comply? (Yes/No)

11.4 MANUALS:

11.4.1 Two (2) manufacturer's operator manuals and two (2) each lubrication instructions and maintenance instructions in hard copy, and if available on a Thumb Drive for use with a computer, to be delivered with each unit.

Yes _____

Comply? (Yes/No)

11.4.2 The supplier shall ensure that all service bulletins, recall notices, and/or other service or maintenance information for the reasonable life of the machines supplied are sent to the FDOT shop to which the machines are assigned.

Yes _____

Comply? (Yes/No)

11.5 PERSONNEL TRAINING:

11.5.1 The services of a factory technician or technicians, thoroughly trained in the use and operation of the unit, shall be furnished for a period of not less than two (2) days, to instruct personnel in the use, operation and maintenance of the unit after delivery. This is to be done at the delivery location.

Yes _____

Comply? (Yes/No)

**FLORIDA DEPARTMENT OF TRANSPORTATION
EQUIPMENT SPECIFICATION**

Specification Number: **FC1420**

Date: **May 12, 2023**

Unit of Equipment: **Truck Mounted Sewer Cleaner**

12.0 WARRANTY:

12.1 The supplier shall warrant all components of its manufacture and design for a minimum of two (2) years following the date of acceptance and will replace to the FDOT any part found to be faulty in manufacture or workmanship. The warranty shall include parts and labor at the delivery location or at the supplier's service location, at the option of FDOT. Parts and service must be available within 2 working days.

Yes

Comply? (Yes/No)

12.2 Components not of the supplier's design and manufacture, such as the carrier, water pumps, valves, etc., are subject to the OEM warranty. In any case all warranties must be for at least two (2) years. Dates of warranties are to be the date of acceptance by FDOT. The successful bidder shall act as FDOT's agent regarding any warranty claim on OEM warranted components.

Yes

Comply? (Yes/No)

ORDERING INSTRUCTIONS

Bid Number: DOT-ITB-24-9013-DG

Title: Truck Mounted Sewer Cleaner

NOTE: ALL ORDERS SHOULD BE DIRECTED TO:

FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEID): 59-3757718-003

VENDOR: Environmental Products Group, Inc.

ADDRESS: 700 Hermit Smith Rd

CITY, STATE, ZIP: Apopka FL 32703

TELEPHONE: 904-537-8799

TOLL FREE NO.: n/a

DELIVERY: DELIVERY WILL BE MADE WITHIN 180 DAYS AFTER RECEIPT OF PURCHASE ORDER.

PRODUCT INFORMATION: DIRECT QUESTIONS TO:

NAME & TITLE: Nick Causey / Sales Manager

ADDRESS: 700 Hermit Smith Rd

CITY, STATE, ZIP: Apopka FL 32703

TELEPHONE: 904-537-8799

TOLL FREE NO.: n/a

E-MAIL ADDRESS: ncausey@myepg.com

WEB ADDRESS: www.myepg.com

INTRODUCTION SECTION

1) INVITATION

The purpose of this Invitation to Bid is to obtain competitive bids to establish a two-year contract for the purchase of Truck Mounted Sewer Cleaners by the Department of Transportation, hereafter referred to as the "Department". The contract will become effective on the date the successful bidder(s) is approved for award and will expire two-years from that date. After the award, said bidder(s) will be referred to as the "Vendor(s)".

All commodities identified in this Invitation to Bid will be subject to the availability of identical commodities as provided by mandatory Department of Management Services' State Contract(s) at such time these commodities become available. In the event of duplication(s) of commodities, the Department of Management Services' mandatory State Contract shall prevail.

2) TIMELINE

Provided below is a list of critical dates and actions. These dates are subject to change. Notices of changes (Addenda) will be posted on the Florida Vendor Information Portal at <https://vendor.myfloridamarketplace.com/> (click on "Search Advertisements") under this bid number. It is the responsibility of all potential bidders to monitor this site for any changing information prior to submitting your bid.

ACTION / LOCATION	DATE	LOCAL TIME
DEADLINE FOR TECHNICAL QUESTIONS - (There is no deadline for administrative questions)	10-09-2023	5:00 PM
BIDS DUE (ON OR BEFORE) - Florida Department of Transportation Central Procurement Office Attn: Destyne Grayson Phone: (850) 414.4253 CO.Purch@dot.state.fl.us	10-19-2023	10:00 AM
PUBLIC OPENING - Florida Department of Transportation Central Procurement Office Attn: Destyne Grayson 605 Suwannee St. MS20 Tallahassee, FL 32399-0450	10-19-2023	11:00 AM
POSTING OF INTENDED DECISION/AWARD -	10-23-2023	

3) BID OPENING AGENDA

The sealed bids will be opened by the Department's Procurement Office personnel at the date, time and location in the Timeline. All bid openings are open to the public and will be conducted according to the following agenda:

Opening remarks – Approximate time of 2 minutes by Department Procurement Office personnel.

Public input period – To allow a maximum of 15 minutes total for public input related to the bid solicitation.

Bids opened – At conclusion of public input or 15 minutes, whichever occurs first, bids received timely will be opened with bidder's name and prices to be read aloud.

Adjourn - After all bids received timely have been opened, the meeting will be adjourned.

ENGINEERED TO PERFORM BUILT TO LAST



VACTOR[®]
Subsidiary of Federal Signal Corporation



SUPERIOR POWER AND PERFORMANCE GUARANTEED

Vector, a Federal Signal company, is the largest manufacturer of sewer cleaning equipment in the world. What sets us apart is our commitment to quality, innovative design, superior performance, operating ease, and strong customer support. Together with our international dealers and partners we provide you with the powerful support and personalized service you need to get the job done.



OUR MODUL-FLEX® DESIGN LETS US ENGINEER THE IDEAL MACHINE FOR YOU

As a result of Vector's unique, trademarked Modul-Flex design, your equipment is engineered and manufactured to meet your specific and most demanding applications. Modul-Flex offers you both accuracy and flexibility, and essential operational advantages:

- Provides for maximum debris body and water tank capacities while ensuring optimum weight distribution on every truck
- Helps you meet local axle load distribution standards and safety regulations
- Center of gravity is calculated for each truck to ensure a safe configuration with optimal weight transfer
- Includes our aluminum water tanks that are warrantied for 10 years, and are customized to the right sizes, capacities, and locations to meet specific chassis requirements

THE CLEANING POWER YOU NEED TO HANDLE YOUR TOUGHEST SEWER CHALLENGES

In all Vactor equipment models you will find rugged and innovative features that deliver the performance you need to handle your most demanding sewer cleaning tasks.

VECTOR'S JET RODDER® SINGLE PISTON WATER PUMP FEATURES A STANDARD 2-YEAR WARRANTY

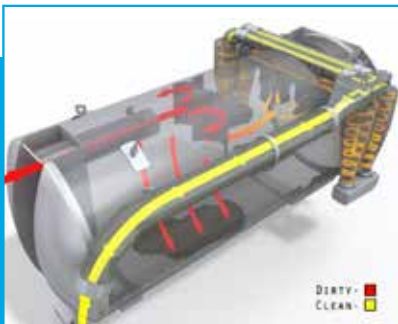
Purpose-designed for sewer system cleaning and refined over 50 years of proven performance, our unique high pressure water pump gives you the power to break up even the toughest blockages. The Jet Rodder pump is a positive displacement, high-pressure, double acting, hydraulically operated, single piston pump specifically designed for sewer cleaning operations, whose design allows for configurations up to 100 gpm US (378 lpm) @ 2000 psi.

- Creates a powerful "jackhammer" action to assist the nozzle in breaking up and penetrating obstructions
- Run dry protection for 30 minutes certified by Vactor
- Powered from the chassis engine without the need of auxiliary engine or belt drive
- Operates at 14 to 25 cycles per minute (typical configurations in continuous duty operations)
- The pump location provides a flooded suction inlet to eliminate potential cavitation damage or the need for a charge pump
- Single moving part reduces wear and tear of pump components and maintenance costs



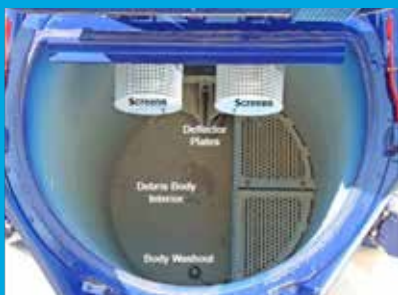
JET RODDER PUMP CONFIGURATIONS

Flow and Pressure	Power Requirements	Hose Size
40 gpm @2500 psi / 151lpm @172 bar	73 hp / 54 kw	3/4" or 1" / 19 or 25.4 mm
60 gpm @2000 psi / 227lpm @138 bar	88 hp / 66 kw	1" / 25.4 mm
60 gpm @2500 psi / 227lpm @172 bar	110 hp / 82 kw	1" / 25.4 mm
80 gpm @2000 psi / 303lpm @138 bar	117 hp / 87 kw	1" / 25.4 mm
80 gpm @2500 psi / 303lpm @172 bar	146 hp / 109 kw	1" / 25.4 mm
100 gpm @2000 psi / 379lpm @138 bar	146 hp / 109 kw	1 1/4" / 31.75 mm



OUR CORROSION- AND ABRASION-RESISTANT DEBRIS BODIES CAN WITHSTAND YEARS OF WEAR

- Cylindrical for maximum strength
- Material: 3/16" (4.7 mm) - single axle; 1/4" (6.4 mm) - tandem axle
- Volumetric capacities: 5 yd³ (3.8 m³) 10 yd³ (7.6m³) 12 yd³ (9.2 m³) 15 yd³ (11.5 m³)
- Mounted on an independent sub-frame separate from the chassis frame via a 3 point mounting system to allow flexing to occur without causing frame damage
- Standard dump height allows easy body dumping at transfer stations or on containers: single rear axle configuration: 48" (1.2 m); dual rear axle configuration: 60" (1.5m)
- Features a dumping angle of 50° via a double acting hydraulic cylinder
- Standard dual air ducting system equipped with dual stainless steel floating balls inside corrosion resistant cages as a safety shutoff system
- Abrasion resistant deflector plates divert the air stream to the bottom as part of the first phase of debris separation
- Includes a load level indicator
- Centrifugal separators (cyclones) (optional in certain models) aid in material separation and help to prevent the ingestion of 50 micron or larger particulate into the vacuum generator



ENHANCED OPERATOR EXPERIENCE

Quieter engine design

Lower water fill point



Hose reel telescopes out up to 15" and rotates up to 270° for optimal positioning

High ground clearance

Patented twist lock pipe restraints

VACTOR 2100i OFFERS YOU GREATER OPERATING EASE AND EFFICIENCY



Vactor's Multiflow system lets operators set the flow at a lower rpm resulting in better fuel economy without sacrificing performance



All water valves are located in the same mid-ship control station, reducing the amount of walking back and forth around the truck by the operator

VACTOR 2100i

INTUITIVE IN EVERY WAY.

NEW INTUITOUCH® ONE-TOUCH IN-CAB CONTROLS REDEFINE SIMPLICITY

- 7" touch screen control features back lit tactile buttons
- Includes controls and viewing screen for camera, lighting, recirculation and PTO/Transfer case activation
- One-Touch engagement to activate PTO and transfer case – allowing operators to gain control of all operational systems
- Operator can view the current operating mode, recirculation status, flows, pressures and more



NEW INTUITOUCH CONTROL STATION PUTS ALL CLEANING SYSTEM FUNCTIONS INTO A SINGLE, SIMPLE CONTROL PANEL

- Articulating controls with up/down adjustment for individualized maximum comfort – articulation allows the control panel to adjust on a 90 degree arc for better access and screen visibility while operating the hose reel and boom
- All controls are consolidated into a single control panel including a 7" dashboard screen with glove-friendly tactile buttons featuring at-a-glance data for water pressure and flow, hose footage, chassis RPM, vacuum information, water level*, debris tank level* and more

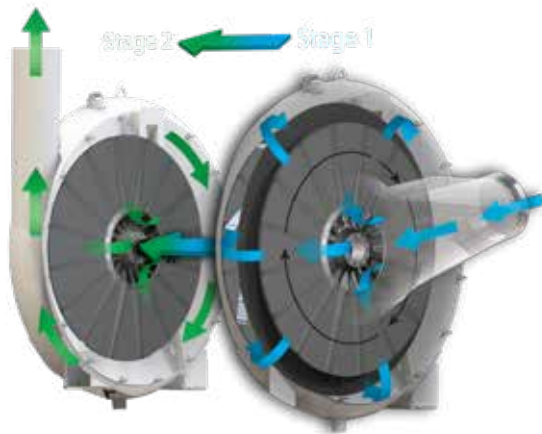


- New, reliable touch buttons with back lit feedback enable the operator to know if a selected function is active
- The hose reel joystick significantly improves response time and pays in and out in the direction of the hose reel
- The boom joystick has a telescoping feature built in, giving the operator full mobility with multiple direction boom movement for quicker set up
- Operators have full control of the water system via a single Multi-Flow control dial – enabling them to precisely match the flow and pressure to the job requirements
- E-stops located at all operator control points bring the unit to a safe condition to protect both the operator and the equipment

VACTOR 2100i COMES IN THE CONFIGURATION YOU NEED

OUR POSITIVE DISPLACEMENT (PD) MODEL IS IDEAL FOR PULLING MATERIAL LONG DISTANCES

With blower offerings providing inlet volumes in excess of 5000 CFM and 18 Hg vacuum, the Vactor 2100i PD is the machine you need to tackle your deepest pulls. In addition, our multi-stage blower filtration system is the most productive of its kind, and unique design features make the 2100i the most operator friendly unit available.



FOR ALL AROUND SERVICE, CHOOSE A SINGLE ENGINE, SINGLE OR DUAL STAGE FAN MODEL

Vactor's fan system is the right choice for all-around sanitary and storm sewer cleaning. Whether equipped with a single or dual (for greater vacuum) fan system, our lightweight, perfectly balanced aluminum fan provides superior performance to handle your toughest jobs. Our unique system also minimizes energy consumption while maximizing performance.

CENTRIFUGAL CYCLONES

Designed and located to improve air filtration and permit easier cleaning. The air enters the top side of the cyclone causing a vortex and any airborne particles to drop and be "dumped" with the rest of the load.



CUSTOMIZE YOUR 2100i WITH PERFORMANCE DRIVEN OPTIONS

RDB | 15

RAPID DEPLOYMENT BOOM

Our revolutionary RDB boom telescopes 10 feet out and extends the debris hose down 15 feet speeding work, and, in many cases, eliminating the need for additional tubes, reducing operator fatigue. The RDB 10'15" offers you:

- Dramatic reduction in set-up and tear-down time with boom's ability to pay-in and pay-out 15 feet of vacuum hose
- Reach greater depths without raising the position of the boom to enhance speed and efficiency
- The ability to work in areas of low overhead clearance without raising the boom and still reach needed depths



WIRELESS CONTROLS

Vactor has enhanced its wireless controls with a belly pack and handheld remotes that feature two-way data transmission, including active pressure and flow information for the water and the ability to monitor hose footage being paid out or retracted. Our wireless controls also allow:

- Extensive operation with greater control away from the fixed operator station
- Multiple control functions including hose reel control, boom control, e-stop and more

OVER 100 PRECISION-ENGINEERED ENHANCEMENTS ARE AVAILABLE, INCLUDING:

- Cold weather recirculation system
- Liquid debris pump-off system
- Debris flush-out system
- Fail-safe hydraulic door locking system
- Water tank capacity up to 1,500 gallons (5,678 L)
- Pump delivery system up to 100 gpm
- Hose reel capacity up to 1,000 ft. (305 m)
- Automatic hose level wind guide
- Safety warning lighting packages
- Hydro-Excavation Kits

VACTOR WATER RECYCLERS CAN HELP YOU MINIMIZE COSTS AS YOU MAXIMIZE RESOURCES



You can maintain and repair sewer lines and save hundreds of thousands of gallons of fresh water every year with a Vactor Water Recycler. Beyond water savings, by eliminating the need to refill water tanks, you drive up productivity, cutting time, effort, and expense. Designed to work exclusively with our 2100i Series combination sewer cleaners, our Water Recyclers offer you:

- Continuous operation without stops
- 5-step water filtration process combining settling, centrifugal separation, and absolute filtration to 100 microns
- No need to enter the debris body for maintenance
- No moving parts inside the debris body
- Ground level access for washing coarse screen filter
- Automated back flush every 30 seconds
- Self-monitoring filter with low and high pressure shutdowns
- Water source selection—clean water, recycled water or both



5-Step Water Filtration Process

1. Initial Separation (inside the debris body by the deflector plates)
2. Coarse Screen Filter
3. Centrifugal Separation
4. Classification Filter
5. Final Settling

VACTOR SERVICE AND SUPPORT



VACTOR REBUILD PROGRAM

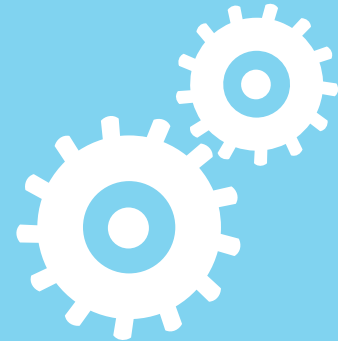
This comprehensive service program is designed to keep your Vactor equipment operating at top performance.

Including:

- An all-points vehicle inspection
- Genuine OEM replacement parts
- All work done by factory-trained technicians
- 10% parts discount
- Engineering improvements and retrofit options
- Equipment testing to factory specifications

PERFORMANCE UPGRADES

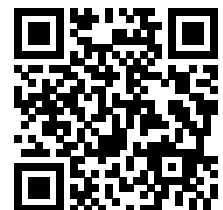
Your equipment represents a significant investment for your community or business. With our Performance Upgrades you can maximize the life, long-term value, versatility and performance of your equipment. Retrofit options include updates to add new safety, productivity and performance features.



OPERATOR, MAINTENANCE & SERVICE TRAINING

To help you and your team get the most from all the performance features we build into our equipment Vactor offers a comprehensive training program that includes hands-on classes on operation, maintenance and service.

**LEARN
MORE**



2100i SPECIFICATIONS

Model	2100i - FAN	2100i - PD
DESIGN	Exclusive Vactor Modul-Flex®	Exclusive Vactor Modul-Flex®
Air Mover	Single or Dual Stage Hydrostatic Fan	Roots / positive displacement
VACUUM RATING	--	Up to 18 in (457 mm) Hg
INLET VOLUME	--	Up to 5000 CFM
DRIVE	Chassis driven, direct drive	Chassis driven, direct drive
OMSI TRANSFER CASE	Hydrostatic	Direct driven off of chassis
FULLY HYDRAULIC BOOM	Proportional Boom Controls with 180° rotation	Proportional Boom Controls with 180° rotation
PICKUP HOSE	7" or 8" Diameter	7" or 8" Diameter
DEBRIS BODY CAPACITY	5 yd ³ - 15 yd ³ (3.8 m ³ - 11.5 m ³)	5 yd ³ - 15 yd ³ (3.8 m ³ - 11.5 m ³)
WATER TANK CAPACITY	1,000 gal - 1,500 gal (3,785 L - 5,678 L)	1,000 gal - 1,500 gal (3,785 L - 5,678 L)
WATER TANK CONSTRUCTION	Aluminum (10-year warranty)	Aluminum (10-year warranty)
WATER PUMP	Vactor Jet Rodder® Multi-Flow system	Vactor Jet Rodder® Multi-Flow system
WATER DELIVERY	60 gpm - 100 gpm at 2,000 psi - 3000 psi	60 gpm - 100 gpm at 2,000 psi - 3000 psi
PUMP ACTION	Continuous flow or Jack Hammer®	Continuous flow or Jack Hammer®
HOSE REEL	15" Telescope, 270° rotation 800 ft x 1 in capacity (244 m x 2.5 cm)	15" Telescope, 270° rotation 800 ft x 1 in capacity (244 m x 2.5 cm)
REAR DOOR	Flat, hydraulically opening with fail safe locks	Flat, hydraulically opening with fail safe locks
SMART TRUCK FEATURES	E-stops at all operator stations Flow / footage meters Smart messages	E-stops at all operator stations Flow / footage meters Smart messages
HAND GUN SYSTEM	35' of hose High Pressure Washdown gun	35' of hose High Pressure Washdown gun
CUSTOM CONFIGURATIONS		
Hose Reel	Up to 1,000 ft capacity (305 m)	Up to 1,000 ft capacity (305 m)
Multiple Boom Options	RDB 10'15' 10' Extendable Boom 10' Tele Boom 5x5 Boom	RDB 10'15' 10' Extendable Boom 10' Tele Boom 5x5 Boom
Axles	Single or Tandem Tri-Drive and Drop axles also available	Single or Tandem Tri-Drive and Drop axles also available
Controls	Wireless Belly pack Handheld Wireless Corded Pendant	Wireless Belly pack Handheld Wireless Corded Pendant
WATER RECYCLING AVAILABLE	NO	YES



OUR COMMITMENT TO QUALITY ONLY BEGINS WITH OUR EQUIPMENT

The Vactor 2100i is manufactured in an ISO 9001 certified, advanced industrial plant. We employ the latest technology to build the most reliable equipment, including high-precision laser cutters, robotic welding, efficient, accurate computer numerical controls, and a sophisticated powder coating system.

When you build a quality product you can back it up with a full one-year, unlimited hours warranty. Vactor also backs up your investment with superior local service and support. Our goal is to keep your machine—and your entire operation—up and running.

The 2100i can be customized to your unique requirements to meet local standards and regulations by means of a broad selection of configurations, options and accessories.

Through our international dealer network, we maintain a vast inventory of spare parts and offer fast shipment to any region of the world.

Altogether, the rugged, reliable Vactor 2100i is easy to operate, easy to maintain, and an easy choice when you are looking for quality equipment that is built to last.



VACTOR

BRINGING YOU THE POWER YOU NEED TO PERFORM

Vactor Manufacturing, the world leader in sewer cleaning equipment, with more than 20,000 specialty vehicles sold worldwide in the last 15 years, is part of Federal Signal, a leader in integrated solutions for governments and industries worldwide.

Our mission is to provide you with not only the best equipment, but the best aftermarket service and support in the industry. Together, we can offer you comprehensive operator training and a vast parts inventory to cut downtime and keep your operation up and running.



VACTOR[®]

Subsidiary of Federal Signal Corporation

vactor.com

Vactor Manufacturing, LLC • 1621 South Illinois Street • Streator, IL 61364 USA
Phone 815.672.3171 • Fax 815.672.2779

Specifications subject to change without notice. Some products shown with optional equipment. Vactor®, JetRodder®, IntuiTouch®, and ParkNClean® are registered trademarks of Vactor Manufacturing, LLC. Products may be covered by one or more United States Patents and/or pending patent applications.

See: www.vactor.com/patents. Vactor Manufacturing, Inc. is a subsidiary of Federal Signal Corp.

Federal Signal Corp. is listed in the NYSE by the symbol FSS.

Effective Date 7/2022 P/N 00107-4 ©2022 Vactor Manufacturing
Printed in the USA

LIMITED WARRANTY

Limited Warranty. Each machine manufactured by VACTOR 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, maintenance and safety 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, iMPACT and Ramjet	10 years against metal water tank leakage due to corrosion. Nonmetallic water tanks are covered for 5 years against any factory defect in material or workmanship.
2100 Series, iMPACT and Guzzler only	5 years against leakage of debris tank, centrifugal compressor or fan housing due to rust-through.
2100 Series, iMPACT and Ramjet	2 years - Vactor Rodder Pump
ALL Models starting with 21-09X-XXXXX and beyond	2 year- Electrical & Electronics (excludes Chassis components)

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 Company's authorized dealer's or 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 and truck chassis, 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 and gaskets.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended, nor intended, or not in accordance with operating, maintenance or safety instructions provided 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, AND TO THE EXTENT PERMITTED, CONFERRED BY STATUTE, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, OR A WARRANTY AGAINST FAILURE OF ITS ESSENTIAL 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.



VACTOR MANUFACTURING
1621 S. Illinois Street
Streator, IL 61364



Itemized List

Sales Code	QTY	Description	List Price
2105i-15		2100i PD, 15" Vacuum, 5 yrd Debris, Combo	289,866
2110i-15		2100i PD, 15" Vacuum, 10 yrd Debris, Combo	289,866
2112i-15		2100i PD, 15" Vacuum, 12 yrd Debris, Combo	300,343
2115i-15		2100i PD, 15" Vacuum, 15 yrd Debris, Combo	307,204
2105i-16		2100i PD, 16" Vacuum, 5 yrd Debris, Combo	293,161
2110i-16		2100i PD, 16" Vacuum, 10 yrd Debris, Combo	293,161
2112i-16		2100i PD, 16" Vacuum, 12 yrd Debris, Combo	301,935
2115i-16		2100i PD, 16" Vacuum, 15 yrd Debris, Combo	310,639
2105i-18		2100i PD, 18" Vacuum, 5 yrd Debris, Combo	301,175
2110i-18		2100i PD, 18" Vacuum, 10 yrd Debris, Combo	301,175
2112i-18		2100i PD, 18" Vacuum, 12 yrd Debris, Combo	309,766
2115i-18		2100i PD, 18" Vacuum, 15 yrd Debris, Combo	318,154
2112i-1024		2100i 1024 PD, 18" Vacuum, 12 yrd Debris, Combo	336,090
2115i-1024		2100i 1024 PD, 18" Vacuum, 15 yrd Debris, Combo	344,478
2105i-SE1		2100i Single Engine Fan, Single Stage, 5 yrd Debris, Combo	288,167
2110i-SE1		2100i Single Engine Fan, Single Stage, 10 yrd Debris, Combo	288,167
2112i-SE1		2100i Single Engine Fan, Single Stage, 12 yrd Debris, Combo	296,742
2115i-SE1		2100i Single Engine Fan, Single Stage, 15 yrd Debris, Combo	307,888
2105i-SE2		2100i Single Engine Fan, Dual Stage, 5 yrd Debris, Combo	312,010
2110i-SE2		2100i Single Engine Fan, Dual Stage, 10 yrd Debris, Combo	312,010
2112i-SE2		2100i Single Engine Fan, Dual Stage, 12 yrd Debris, Combo	320,582
2115i-SE2		2100i Single Engine Fan, Dual Stage, 15 yrd Debris, Combo	331,725
2105i-15-CB		2100i PD, 15" Vacuum, 5 yrd Debris, Catch Basin	240,556
2110i-15-CB		2100i PD, 15" Vacuum, 10 yrd Debris, Catch Basin	240,556
2112i-15-CB		2100i PD, 15" Vacuum, 12 yrd Debris, Catch Basin	251,324
2115i-15-CB		2100i PD, 15" Vacuum, 15 yrd Debris, Catch Basin	258,406
2105i-16-CB		2100i PD, 16" Vacuum, 5 yrd Debris, Catch Basin	243,949
2110i-16-CB		2100i PD, 16" Vacuum, 10 yrd Debris, Catch Basin	243,949
2112i-16-CB		2100i PD, 16" Vacuum, 12 yrd Debris, Catch Basin	252,978
2115i-16-CB		2100i PD, 16" Vacuum, 15 yrd Debris, Catch Basin	261,942
2105i-18-CB		2100i PD, 18" Vacuum, 5 yrd Debris, Catch Basin	252,200
2110i-18-CB		2100i PD, 18" Vacuum, 10 yrd Debris, Catch Basin	252,200
2112i-18-CB		2100i PD, 18" Vacuum, 12 yrd Debris, Catch Basin	261,040
2115i-18-CB		2100i PD, 18" Vacuum, 15 yrd Debris, Catch Basin	269,678
2112i-1024-CB		2100i 1024 PD, 18" Vacuum, 12 yrd Debris, Catch Basin	288,141
2115i-1024-CB		2100i 1024 PD, 18" Vacuum, 15 yrd Debris, Catch Basin	296,775
2105i-SE1-CB		2100i Single Engine Fan, Single Stage, 5 yrd Debris, Catch Basin	230,331
2110i-SE1-CB		2100i Single Engine Fan, Single Stage, 10 yrd Debris, Catch Basin	230,331
2112i-SE1-CB		2100i Single Engine Fan, Single Stage, 12 yrd Debris, Catch Basin	238,908
2115i-SE1-CB		2100i Single Engine Fan, Single Stage, 15 yrd Debris, Catch Basin	250,055
2105i-SE2-CB		2100i Single Engine Fan, Dual Stage, 5 yrd Debris, Catch Basin	254,174
2110i-SE2-CB		2100i Single Engine Fan, Dual Stage, 10 yrd Debris, Catch Basin	254,174
2112i-SE2-CB		2100i Single Engine Fan, Dual Stage, 12 yrd Debris, Catch Basin	262,748
2115i-SE2-CB		2100i Single Engine Fan, Dual Stage, 15 yrd Debris, Catch Basin	273,893
2014iSTD		1000 Gallons STD	-
2016i		Additional Water, 1300 Gal Total	3,418
2018i		Additional Water, 1500 Gal Total	5,120
2025i		304 Stainless Steel Water Tanks Upgrade in lieu of Aluminum - Single Axle	10,203
2025iA		304 Stainless Steel Water Tanks Upgrade in lieu of Aluminum - Tandem Axle	12,755
3002iSTD		Vacuum, Single Engine - Single Stage Fan	-
5000i		40 GPM/2500 PSI Jet Rodder pump	-
5000iA		40 GPM/2000 PSI Jet Rodder pump	-
5003i		50 GPM/3000 PSI Jet Rodder pump	-
5001i		60 GPM/2500 PSI Jet Rodder pump	-
5001iA		60 GPM/2000 PSI Jet Rodder pump	-
5003iA		70 GPM/3000 PSI Jet Rodder pump	-
5002i		80 GPM/2000 PSI Jet Rodder pump	-
5002iA		80 GPM/2500 PSI Jet Rodder pump	-
5004i		100 GPM/2000 PSI Jet Rodder pump - Includes 1-1/4" X 500' Rodder Hose	5,105
5004iA		100 GPM/2000 PSI Jet Rodder pump - Does Not Include Rodder Hose	2,711
5005iSTD		10 GPM/1000 PSI Water System	-
5005iA		30 GPM/3000 PSI Jet Rodder pump Water System	18,673
5005iB		40 GPM/2500 PSI Jet Rodder pump Water System	18,673
015iSTD		Customer Supplied Chassis Modification Charge	-
009iSTD		Under Engine Toolbox	-
010iSTD		Operator Station Curbside Toolbox	-

011iSTD	Aluminum Fenders	-
012iSTD	Mud Flaps	-
014iSTD	Electric/Hydraulic Four Way Boom	-
016iSTD	Color Coded Sealed Electrical System	-
018i	Remote Pendant Control With 35' Cord	1,682
019iASTD	Intuitouch Electronic Package	-
020iSTD	Double Acting Hoist Cylinder	-
025iASTD	Handgun Assembly	-
026iSTD	Ex-Ten Steel Cylindrical Debris Tank	-
030iSTD	Flexible Hose Guide	-
032iSTD	(3) Nozzles with Carbide Inserts w/Rack	-
045iSTD	Suction Tube Storage	-
046iSTD	1" Nozzle Pipe	-
048iSTD	10' Leader Hose	-
100iSTD	Flat Rear Door w/Hydraulic Locks	-
1005iSTD	Dual Stainless Steel Float Shut Off System	-
1009iSTD	Full Rear Door Swinging Screen	-
1016iSTD	Microstrainer Prior to Blower	-
1024iSTD	Debris Body Vacuum Relief System	-
1031iSTD	Debris Deflector Plate	-
1032iSTD	48" Dump Height	-
1033iSTD	60" Dump Height	-
1041iSTD	Debris Body-Up Message and Alarm	-
1053iSTD	Stainless Steel Water Barrel for Jet Rodder Pump with Water Recycler	-
2001iSTD	Low Water Indicator On Screen w/Alarm and Water Pump Flow Indicator	-
2011iSTD	3" Y-Strainer at Passenger Side Fill with 25' Fill Hose	-
2022iSTD	Additional Water Tank Sight Gauge	-
2023iSTD	Liquid Float Level Indicator	-
3019iSTD	Digital Water Pressure Gauge	-
4000iSTD	180 deg. Non-Extending Boom	-
4006iSTD	Front Joystick Boom Control	-
4010iSTD	Boom Hose Storage	-
4017iSTD	Boom Out of Position Message and Alarm	-
4022iSTD	Telescopic Boom Elbow, Standard	-
5010iSTD	Rodder System Accumulator - Jack Hammer on/off Control w/ manual valve	-
5011iSTD	3" Y-Strainer @ Water Pump	-
5015iSTD	Midship Handgun Coupling	-
5019iSTD	Chassis Engine Cooling Package	-
5022iSTD	Side Mounted Water Pump	-
6000iBSTD	400' x 1" Sewer Hose 2500 PSI, Piranha	-
6000iCSTD	400' x 1" Piranha Sewer Hose 3000 PSI	-
6004iSTD	Hose Wind Guide (Dual Roller), Manual	-
6005iDSTD	Digital Hose Footage Counter	-
6007iSTD	Hose Reel Manual Hyd Extend/Retract	-
6009iSTD	Hose Reel Chain Cover	-
6020iBSTD	Hydraulic Extending 15", Rotating Hose Reel, 1" x 800' Capacity	-
6017iSTD	Hydraulic Tank Shutoff Valves	-
7001iSTD	Tachometer/Chassis Engine w/Hourmeter	-
7003iSTD	Water Pump Hour Meter	-
7004iSTD	PTO Hour Meter	-
7005iSTD	Hydraulic Oil Temp Alarm	-
7006iSTD	Tachometer & Hourmeter for Centrifugal Compressor	-
7007iSTD	Tachometer & Hourmeter/Blower	-
8000iSTD	Circuit Breakers	-
8025iSTD	LED Lights, Clearance, Back-up, Stop, Tail & Turn	-
9002iSTD	Tow Hooks, Front	-
9003iSTD	Electronic Back-Up Alarm	-
9021iSTD	Camera System, Rear Only	-
S390ASTD	8" Vacuum Pipe Package	-
S390BSTD	7" Vacuum Pipe Package	-
S560STD	Emergency Flare Kit	-
S590STD	Fire Extinguisher 5 Lbs.	-
i110STD	Module Paint, DuPont Imron Elite - Wet on Wet	-
009i	Control Panel Box with Lighting	312
010i	Operator Station Curbside Toolbox with Lighting	312
1003i	Debris Body Washout	1,926
1003iB	Rear Door Valve Flushout	529
1004iB	Onboard Electronic/Digital Scale system with Vacuum Relief	15,800
1005iA	S.S Float Ball Cage for Float Shut Off System	702
1007i	6" Rear Door Butterfly Valve, 3:00 position	1,027

1007iA	6" Rear Door Butterfly Valve w/Port, 6:00 position	1,310
1008i	6" Rear Door Knife Valve w/Camloc, 3:00 position	1,541
1008iA	6" Rear Door Knife Valve w/Camloc w/Port, 6:00 position	1,836
1008iB	6" Rear Door Drain Port, 6:00 position	723
1008iC	Standpipe and Screen for 6:00 Port	1,284
1008iE	6" Rear Door Knife Valve w/Camlock, Air Actuated, 3:00 Position	2,318
1008iF	6" Rear Door Knife Valve w/Camlock, Air Actuated w/Port, 6:00 Position	2,611
1008iG	6" Rear Door Port, Removed, 3:00 Position	-
1009i	Internally Mounted Trash Pump	13,410
1009iA	Externally Mounted Trash Pump w/Floating Arm	14,550
1009iB	Internal Body Screen	863
1009iD	Full Rear Door Swinging Screen	982
1009iE	Externally Mounted Trash Pump with Basket Intake Screen	14,550
1010i	Pump Off Plumbing to Front, Outlet Location will be dependent on supplied chassis	3,702
1010iA	Pump Off Ports Only	723
1010iB	Pump Off Ports and Programming	3,006
1012i	6" Decant System w/ Air Actuated Knife Valve, Curbside	2,886
1012iA	6" Decant System w/ Air Actuated Knife Valve, Streetside	2,856
1013i	Additional Water, Water and Debris Tanks Joined	2,976
1014i	Centrifugal Separators (Cyclones)	6,730
1014iA	Centrifugal Separators (Cyclones), 304 Stainless Steel	8,680
1014iB	304SS Centrifugal Separators, Dustboxes, Plenum and Crossover Tubes	12,505
1015i	Folding Pipe Rack, Curbside, 8" Pipe	1,337
1015iH	Folding Pipe Rack, Curbside, Hydraulic, 8" Pipe	2,400
1015iA	Folding Pipe Rack, Streetside, 8" Pipe	1,337
1015iAH	Folding Pipe Rack, Streetside, Hydraulic, 8" Pipe	2,498
1015iB	Folding Pipe Rack, Rear Door, 8" Pipe	1,337
1015iBH	Folding Pipe Rack, Rear Door, Hydraulic, 8" Pipe	2,498
1015iBFSTD	Fixed Rear Door Pipe Rack, 8" Pipe	-
1015iG	Folding Pipe Rack, Curbside, 7" Pipe	1,337
1015iHA	Folding Pipe Rack, Curbside, Hydraulic, 7" Pipe	2,498
1015iAB	Folding Pipe Rack, Streetside, 7" Pipe	1,337
1015iAJ	Folding Pipe Rack, Streetside, Hydraulic, 7" Pipe	2,498
1015iBA	Folding Pipe Rack, Rear Door, 7" Pipe	1,337
1015iBJ	Folding Pipe Rack, Rear Door, Hydraulic, 7" Pipe	2,498
1015iBKSTD	Fixed Rear Door Pipe Rack, 7" Pipe	-
1015iJ	Folding Pipe Rack, Curbside, 6" Pipe	1,337
1015iHB	Folding Pipe Rack, Curbside, Hydraulic, 6" Pipe	2,498
1015iAC	Folding Pipe Rack, Streetside, 6" Pipe	1,337
1015iAK	Folding Pipe Rack, Streetside, Hydraulic, 6" Pipe	2,498
1015iBL	Folding Pipe Rack, Rear Door, 6" Pipe	1,337
1015iBM	Folding Pipe Rack, Rear Door, Hydraulic, 6" Pipe	2,498
1015iBN	Fixed Rear Door Pipe Rack, 6" Pipe	-
1015PBR	Rear Door Pipe Rack Removed	-
1016iASTD	Subframe Mounted, 2-Pipe Rack, 7"	-
1022i	Rear Door Splash Shield	1,961
1023i	Lube Manifold, with Lube Chart	2,912
1023iA	Plastic Lube Chart	83
1025i	Flat Rear Door Ports	314
1026i	Debris Body Vibrator, Electric	3,425
1030i	Debris Body Inspection Port w/Ladder	1,560
1053i	Stainless Steel Water Barrel for Jet Rodder Pump	3,824
2003i	Laval Water Separator at Fill	2,194
2004i	Continuous Water Tank Fill	2,194
2006i	Air Purge	1,649
2020i	6" Gravity Fill Port on Upper P/S Water Tank	1,118
2021i	Additional Water Tank Fill	920
3013iB	Vacuum, Vac on the Go for the Single Engine Fan	41,460
3015i	Front Blower Controls	1,862
3017i	Blower High Temp Safety Shutdown	664
3020i	Digital Water Level Indicator	858
3021i	Digital Debris Body Level Indicator Tied to Vacuum Relief	1,151
3022i	Digital Grey Water Level Indicator	2,304
4005i	180 deg. 10ft Extendable Boom	12,179
4014i	180 deg. 5 x 5 Extendable/Telescoping Boom	22,005
4015i	180 deg. 10ft Telescoping Boom	19,478
4016i	180 deg. 10' x 15' Rapid Deployment Boom	27,496
4018i	180 deg. 10' x 15' Rapid Deployment Boom - PROMO PRICING with Water Recycler Option	19,478
4008i	Grate Lifting Hook, Installed on Boom	393
4009i	Water Ring Assembly, At Hose End	1,016

4009iA	Water Ring Assembly, At Debris Body Inlet	1,016
4011iA	Wireless Controls w/2-way communication and LED Display.(excludes hose reel controls)	3,004
4011iB	Bellypack Wireless Controls with hose reel controls, 2-way communications, and LCD Display	3,965
4011iC	Handheld Wireless Controls	3,107
4011iD	Bellypack Wireless Controls	4,100
4013i	Rotatable Boom Inlet Hose	723
4016iA	Heavy Duty RDB Hose	1,869
4020i	Anti Splash Valve, Body Inlet	479
4021i	Vacuum Accumulator - Constant Speed	5,293
4021iA	Vacuum Accumulator - Variable Speed	5,293
4022iA	Telescopic Boom Elbow, Hard Hat Style	577
4022iD	Telescopic Boom Elbow, Nickel Plated	497
5008iB	Cold Weather Recirculator, PTO Driven, 25 GPM	2,188
5010iA	Rodder System Accumulator - Jack Hammer on/off Control at Hose Reel	998
5015i	Handgun Couplers, Front and Rear	771
5016i	Additional Rodder System Accumulator (Manual Operation)	3,310
5017i	Hose Reel, Freespool	1,265
5019i	Chassis Engine Cooling Package	4,467
5021iC	Hydro Excavation Kit - Includes Lances w/ Shield, Nozzles, Storage Tray, and Vacuum Tube	3,316
5023i	Fan Flushout System	637
5024iA	Water Heater, 400,000 BTU's (May limit Water Capacity)	16,610
5024iC	Water Heater, 800,000 BTU's (May limit Water Capacity)	20,610
5026iA	Insulated, Wrapped Water Lines	4,920
5026iB	Heat Traced and Wrapped Water Lines	6,100
5029i	Cyclone Washout System	619
5029iA	RDB Washout Coupling	135
5030i	Water Recycler	130,364
5032i	Fresh Water Electric Recirculation System (Water Recycler Only)	2,803
5033i	Blanket Heated Rear Door Frame (Water Recycler Only)	11,516
6000i	400' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD	153
6001iG	400' x 1" Piranha Armor Belt Sewer Hose 2500 PSI in lieu of STD	748
6001iH	400' x 1" Piranha Armor Belt Beacon Sewer Hose 2500 PSI in lieu of STD	994
6001i	500' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD	711
6001iB	500' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	620
6001iC	500' x 1" Piranha Armor Belt Sewer Hose 2500 PSI in lieu of STD	1,453
6001iD	500' x 1" Piranha Armor Belt Beacon Sewer Hose 2500 PSI in lieu of STD	1,759
6002i	600' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD	1,265
6002iB	600' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	1,156
6002iE	600' x 1" Piranha Armor Belt Sewer Hose 2500 PSI in lieu of STD	2,163
6002iF	600' x 1" Piranha Armor Belt Beacon Sewer Hose 2500 PSI in lieu of STD	2,528
6002iH	700' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD	1,822
6002iG	700' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	1,696
6002iC	700' x 1" Piranha Armor Belt Sewer Hose 2500 PSI in lieu of STD	2,869
6002iD	700' x 1" Piranha Armor Belt Beacon Sewer Hose 2500 PSI in lieu of STD	3,295
6003i	800' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD	2,377
6003iC	800' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	2,233
6003iD	800' x 1" Piranha Armor Belt Sewer Hose 2500 PSI in lieu of STD	3,574
6003iE	800' x 1" Piranha Armor Belt Beacon Sewer Hose 2500 PSI in lieu of STD	4,059
6004i	900' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD	4,358
6004iC	900' x 1" Piranha Sewer Hose 2500 PSI in lieu of STD	2,242
6004iF	900' x 1" Piranha Armor Belt Sewer Hose 2500 PSI in lieu of STD	4,482
6004iE	900' x 1" Piranha Armor Belt Beacon Sewer Hose 2500 PSI in lieu of STD	5,355
6000i3	400' x 1" Aeroquip Sewer Hose 3000 PSI in lieu of STD	1,291
6001iG3	400' x 1" Piranha Armor Belt Sewer Hose 3000 PSI in lieu of STD	1,368
6001iH3	400' x 1" Piranha Armor Belt Beacon Sewer Hose 3000 PSI in lieu of STD	1,723
6001i3	500' x 1" Aeroquip Sewer Hose 3000 PSI in lieu of STD	2,131
6001iB3	500' x 1" Piranha Sewer Hose 3000 PSI in lieu of STD	967
6001iC3	500' x 1" Piranha Armor Belt Sewer Hose 3000 PSI in lieu of STD	2,229
6001iD3	500' x 1" Piranha Armor Belt Beacon Sewer Hose 3000 PSI in lieu of STD	2,673
6002i3	600' x 1" Aeroquip Sewer Hose 3000 PSI in lieu of STD	2,970
6002iB3	600' x 1" Piranha Sewer Hose 3000 PSI in lieu of STD	1,574
6002iE3	600' x 1" Piranha Armor Belt Sewer Hose 3000 PSI in lieu of STD	3,091
6002iF3	600' x 1" Piranha Armor Belt Beacon Sewer Hose 3000 PSI in lieu of STD	3,622
6002iH3	700' x 1" Aeroquip Sewer Hose 3000 PSI in lieu of STD	3,813
6002iG3	700' x 1" Piranha Sewer Hose 3000 PSI in lieu of STD	2,186
6002iC3	700' x 1" Piranha Armor Belt Sewer Hose 3000 PSI in lieu of STD	3,950
6002iD3	700' x 1" Piranha Armor Belt Beacon Sewer Hose 3000 PSI in lieu of STD	4,570
6003i3	800' x 1" Aeroquip Sewer Hose 3000 PSI in lieu of STD	4,654
6003iC3	800' x 1" Piranha Sewer Hose 3000 PSI in lieu of STD	2,794
6003iD3	800' x 1" Piranha Armor Belt Sewer Hose 3000 PSI in lieu of STD	4,812

6003iE3	800' x 1" Piranha Armor Belt Beacon Sewer Hose 3000 PSI in lieu of STD	5,522
6004i3	900' x 1" Aeroquip Sewer Hose 3000 PSI in lieu of STD	5,603
6004iC3	900' x 1" Piranha Sewer Hose 3000 PSI in lieu of STD	3,487
6004iD3	900' x 1" Piranha Armor Belt Sewer Hose 3000 PSI in lieu of STD	5,727
6004iE3	900' x 1" Piranha Armor Belt Beacon Sewer Hose 3000 PSI in lieu of STD	6,599
6004iA	Hose Wind Guide (Dual Roller), Auto, Non-Indexing	4,245
6004iB	Hose Wind Guide (Dual Roller), Auto, Indexing	4,786
6004iD	Rodder Hose Pinch Roller	1,773
6005iA	Additional Hose Footage Counter, Rear of Hose Reel	597
6006i	Rodder Hose Guard - Lexan	1,434
6006iA	Rodder Hose Guard - Expanded Metal	1,933
6008i	Hose Reel Manual Rewind Tool	654
6012i	Lateral Cleaning Kit w/150' Hose and Nozzle, 25 GPM/2000 PSI	3,841
6012iA	Lateral Cleaning Kit w/150' Hose and Nozzle, 25 GPM/2000 PSI located at Side	5,230
6013i	Hydraulic Tool Package	1,842
6014i	High Pressure Hose Reel	1,861
6014iA	2 High Pressure Hose Reels	3,581
6019i	Rodder Pump Drain Valves	624
6019iA	Final Filter and Silencer Ball Valve Drains	562
6020iC	Hydraulic Extending 15", Rotating Hose Reel, 1" x 1000' Capacity	2,952
6026i	Washington State DOT Legal Front Hose Reel	-
6027iA	25' Leader Hose (in lieu of standard)	437
6029i	Heated Rodder Pump Cabinet	11,193
6030i	Heated Handgun Cabinet	8,754
6031i	Front Hose Reel Tool Storage	375
8001iJ	Rear Directional Control, LED Arrowboard	3,237
8001iL	Rear Directional Control, LED Split Arrowboard	2,740
8001iM	Rear Directional Control, LED Arrowstick	2,242
8001iN	Front Directional Control, LED Arrowstick	2,242
8002i	Corded, Hand Light w/Bumper Plug	468
8003i	Corded, Hand Light w/Retractable Reel	696
8002iA	Wireless, Waterproof, Rechargeable, Handheld, LED Spot Light w/12V Charger	453
8004iD	Rear Mounted, LED Beacon Light	1,254
8004iF	Rear Mounted, LED Beacon Light w/ Limb Guard	1,296
8004iE	Front Mounted, LED Beacon Light	1,254
8004iG	Front Mounted, LED Beacon Light w/Limb Guard	1,296
8005i	H.A.L.O. (Handsfree Accessory Light Option)	3,611
8005iA	H.A.L.O. (Handsfree Accessory Light Option) without Light	2,366
8012i	Additional Corded Handlight Connector, Rear	184
8020iE	Lighting Package, 6 Federal Signal Strobe Lights	1,971
8020iH	10 Light Package, 10 Federal Signal Strobe Lights, LED	2,664
8020iL	14 Light Package, 14 Federal Signal Strobe Lights, LED	4,102
8020iM	Federal Signal Strobe Lights - 4 Light LED System	812
8027i	LED Mid-Ship Turn Signals	680
8028i	Worklights (2), LED, Boom	1,005
8029i	Worklights (2), LED, Rear Door	816
8029iA	Worklight, LED, Operators Station	748
8029iB	Worklight, LED, Hose Reel Manhole	748
8029iC	Worklight, LED, Curb Side	742
8029iD	Worklight, LED, Street Side	742
9001i	Ziebart Corrosion Protection	1,909
9001iA	Road Salt Protection	471
9001iB	Ocean Preparation	1,440
9021iA	Camera System, Front and Rear	949
9021iB	Camera System, Front, Rear and Both Sides	1,898
9023i	Safety Cone Storage Rack - Drop in Style	206
9023iA	Safety Cone Storage Rack - Post Style	206
9023iB	Additional Safety Cone Storage Rack - Drop in Style	206
9023iC	Additional Safety Cone Storage Rack - Post Style	206
9024i	Water Cooler Storage Rack	206
9027iA	Chassis Engine DPF Soot Load Information	563
9070iA	Toolbox, Front Bumper Mounted, 16 x 12 x 18 w/(2) LED Side Markers	2,487
9070iC	Tool Baskets, Front Bumper Mounted, 16 x 12 x 18 w/ (2) LED Side Markers	1,776
9070iB	Long Handle Tool Storage	439
9071i	Tooltray, Behind Cab	907
9071iF	Toolbox, Behind Cab - 14w x 36h x 96d	3,998
9071iA	Partial Toolbox, Behind Cab - 17w x 30h x 48d	3,084
9071iE	Toolbox, Behind Cab - 16w 30h x 96d	3,966
9072iA	Toolbox, Driver Side Chassis Frame, 60w x 24h x 24d	3,266
9072iB	Toolbox, Driver Side Chassis Frame, 24w x 24h x 24d	2,010

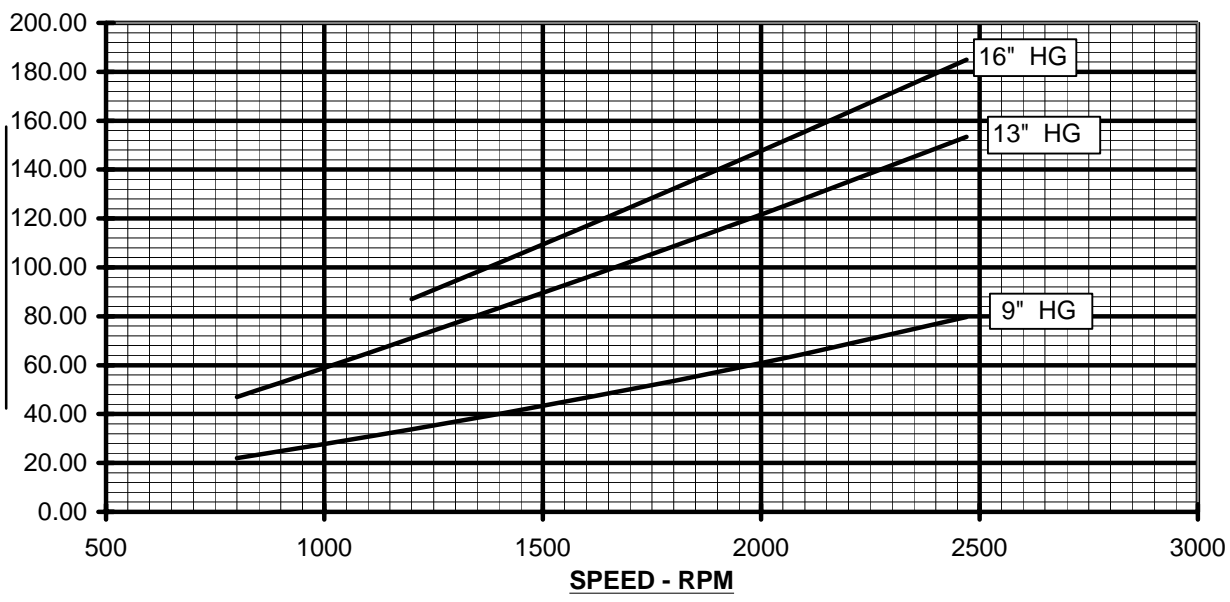
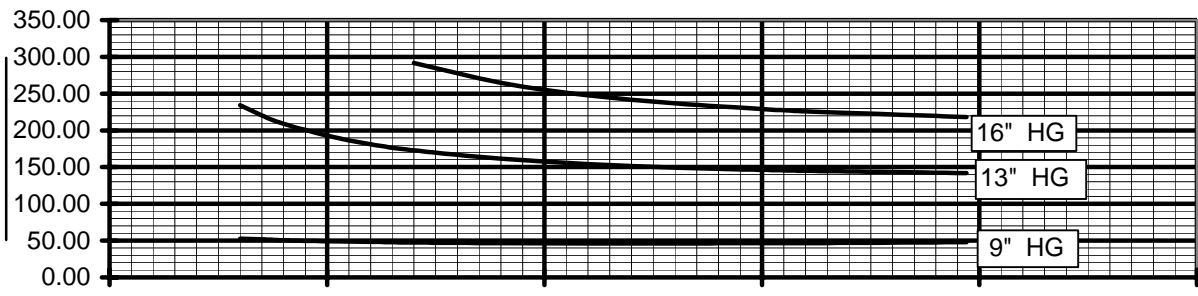
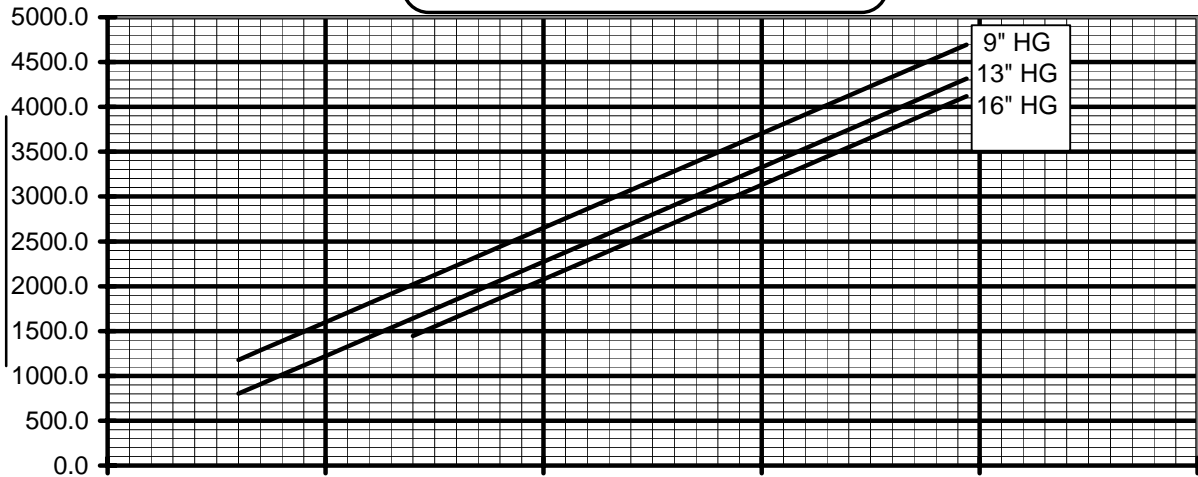
9073iA		Toolbox, Passenger Side Chassis Frame, 30w x 18h x 24d	2,147
9074iB		Toolbox, Driver Side Subframe, 16w x 20h x 24d	1,661
9074iA		Toolbox, Driver Side Subframe, 18w x 24h x 24d	1,661
9074iC		Toolbox, Driver Side Subframe, 18w x 15h x 10d	1,661
9075iC		Toolbox, Driver Side Subframe, 36w x 20h x 12d	1,661
9075iB		Toolbox, Driver Side Subframe, 48w x 20h x 12d	1,848
9075iA		Toolbox, Driver Side Subframe, 60w x 20h x 12d	2,034
9071iFL		Toolbox, Behind Cab - 14w x 36h x 96d - with Lighting	4,308
9071iAL		Partial Toolbox, Behind Cab - 17w x 30h x 48d - with Lighting	3,395
9071iEL		Toolbox, Behind Cab - 16w 30h x 96d - with Lighting	4,278
9072iBL		Toolbox, Driver Side Chassis Frame, 24w x 24h x 24d - with Lighting	2,321
9072iAL		Toolbox, Driver Side Chassis Frame, 60w x 24h x 24d - with Lighting	3,577
9073iAL		Toolbox, Passenger Side Chassis Frame, 30w x 18h x 24d - with Lighting	2,459
9074iBL		Toolbox, Driver Side Subframe, 16w x 20h x 24d - with Lighting	1,973
9074iAL		Toolbox, Driver Side Subframe, 18w x 24h x 24d - with Lighting	1,973
9074iCL		Toolbox, Driver Side Subframe, 18w x 15h x 10d - with Lighting	1,973
9075iCL		Toolbox, Driver Side Subframe, 36w x 20h x 12d - with Lighting	1,973
9075iBL		Toolbox, Driver Side Subframe, 48w x 20h x 12d - with Lighting	2,158
9075iAL		Toolbox, Driver Side Subframe, 60w x 20h x 12d - with Lighting	2,346
9085iB		Heavy Duty Chassis Surcharge	5,000
9085iC		Medium Duty Chassis Surcharge	3,500
9085i		2022 Vactor Surcharge	3,500
9085iE		Chassis Surcharge (Freightliner Spec)	6,700
9085iF		Chassis Surcharge (Western Star Spec)	10,300
i111		Paint, Module, Centari (Primer Base)	1,687
i112STD		Module Paint, DuPont Imron Elite - Sanded Primer Base	-
i113		Module Stripe, Single 6"	2,361
i114		Module Stripe, Multiple	2,866
i115		Door Stripe Material, Painted	1,182
i116		Door Stripe Material, Reflective Tape	753
i118		Cab Paint, Centari	4,302
i119		Cab Paint, Imron	6,378
i120		Cab Stripe, Single 6"	1,524
i121		Cab Stripe, Multiple	1,684
i123		Chassis Cab Wrap	-
i124W		Vactor 2100i Body Decal, White	-
i124S		Vactor 2100i Body Decal, Silver	-
i124B		Vactor 2100i Body Decal, Blue	-
i124G		Vactor 2100i Body Decal, Green	-
i124		Vactor 2100i Body Decal, Multi-Colored	-
i124BW		Vactor 2100i Body Decal, Black Letter w/White Swoosh	-
i124R	1	Vactor 2100i Body Decal, Red	-
i124NB		Vactor 2100i Body Decal, Navy Blue	-
i124STD		Vactor 2100i Body Decal, Standard	-
i124BL		Vactor 2100i Body Decal, Black	-
LOGO-APPL		Vactor/Guzzler Logos - Applied	-
LOGO-LOOSE		Vactor/Guzzler Logos - Shipped Loose	-
CUST-LOGO		Customer Supplied Logos installed	1,346
NO LOGOS		No Logos	-
F001A		Skid Preparation Fee	4,375
F002		All Decals in Spanish	-
EW-V2-NA-2PL		Extended Factory Warranty - 2Yrs	3,073
EW-V2-NA-3PL		Extended Factory Warranty - 3Yrs	6,678
EW-V2-NA-4PL		Extended Factory Warranty - 4Yrs	10,284
EW-V2-NA-5PL		Extended Factory Warranty - 5Yrs	13,889
8030i		Hose Reel Wrapped for Delivery	-
9072iC		Toolbox, Driver Side Chassis Frame, 72w x 18h x 24d	3,843
CHASSIS	1	CHASSIS SELECTION	
		FINAL TOTAL	



Roots

PERFORMANCE BASED ON AIR,
INLET AT 68° F, DISCH. AT 30" HGA
OCT. 2007

VACUUM PERFORMANCE
FRAME 824 RCS BLOWER
MAX. VACUUM = 16" HG
MAX. SPEED = 2470 RPM



824 RCS VAC CURVE(16 INCH HGV-2470 RPM)

VEHICLE: FL DOT 47X 6x4 1000 Gallon
 10/6/23 7:20 AM

Wheel Base = 261
 Cab to Axle = 193



	Bare Chassis	Completed Unit Dry	Completed Unit With Water	Completed Unit Debris Only	Water Only Weight
Front Axle	10,660	17,946	18,752	17,322	806
Rear Axle	<u>8,220</u>	<u>22,810</u>	<u>30,396</u>	<u>33,934</u>	<u>7,586</u>
Total	18,880	40,756	49,148	51,256	8,392
		21,876		10,500 Debris	1,005 Gallons 8.35 lb./gal.

Notes:

Weights provided are estimates only, based on best known information.

Estimated weights do not include tools or any other customer added items.

Bridge law for a tandem axle unit is 20,000 lbs on the front axle and 34,000 lbs on the rear axles.

Vactor only guarantees the unit will meet the 20,000 lb front axle requirement with water as it ships from the factory.

The estimated debris capacity is based on what the unit can carry while still being under the rear axle bridge law.

Any sales order changes will require a revised weight scenario.