GapVax, Inc.

HGAC SC01-21

Model GWRJ, Recycle Jet/Vac Sewer Cleaner, 1500 Gallon, 10-1/2 yd3 Debris

One 2021 GapVax Wiedemann Recycle Jetter (GWRJ) Unit:

- **Complete installation and integration onto chassis**
- **Mid-ship mounted split-shaft PTO transfer case with 10% speed increase**
- **Transmission PTO driven hydraulic pumps via Chelsea 890 PTO**
- **60 Gallon split hydraulic tank**
- **Rotating screen hydraulic circuit and height control to be separate from main hydraulic circuit**
- **Rear bumper**

Debris Body:

- ***Stainless Steel* 10-1/2 Cubic yard useable debris body**
- **Debris body rock screen / material baffle**
- **Full opening rear tailgate**
- **45 Degree body dump via hydraulic body lift cylinder**
- **Debris body washout system**
- **Extended *Stainless Steel* Debris Splash Shield**
- **Liquid load level sight glasses on tailgate**
- **6" Brass Decant Valve**

Liquid Ring Pump:

- **Non-Sparking design offers safe operation with sewer gas**
- **Quiet Operation, low maintenance**
- **Rated to 2,400 CFM**
- **Vacuum Mode Rated to 18" Hg Vacuum, includes vacuum limit valve**
- **Blow-Off Mode Rated to 11 PSI Pressure, includes pressure relief valve**
- **Debris body primary level control**
- **Integral *Stainless Steel* secondary separation compartment with safety screen**
- **Aluminum discharge air/ water separator**
- **Service water supplied via Compartment 5 (cleanest water), constantly refreshed**
- **Pump compartment noise reduction enclosure**
- **Powered via mid-ship PTO transfer case**
- **Belt Driven**
- **Pneumatic actuated clutch engagement / disengagement**

Water Recycling System:

- **In the world of sewer cleaning, water recycling means separating water from the vacuum conveyed debris and cleaning it to a degree that it can be used again for feeding the jetting pump without damaging any parts of the high-pressure water system or sewer lines**
- **Nine-Stages:**
    - **Coarse separator at the rear of the debris body**
        - **Water and debris enter the debris tank at the top**
        - **Rock screen to keep heavy debris to the rear of the debris tank**
    - **Stainless steel screen with auto height adjustment**

    - **Primary manifold of centrifugal cyclone separators**
    - **Specially shaped water tank compartment 1 (coarse grease and sediment removal)**
    - **Specially shaped water tank compartment 2 (grease and sediment removal)**
    - **Specially shaped water tank compartment 3 (removes remaining grease and sediment)**
    - **Specially shaped water tank compartment 4 (removes fine sediment)**
    - **Second manifold of centrifugal cyclone separators (removed ultra-fine silt and sediment)**
    - **Final compartment separation, compartment 5**
    - **Water from compartment 5 is continuously cycled thru the second manifold of centrifugal cyclone separators**
- **Individual compartment drains and clean-outs, material is vacuum conveyed to the debris tank**
- **Rated to 317 Gallons per minute (1200 liter/min)**

6" Hydraulic Suction Boom:

- **Rear mounted**
- ➢ **Power lift circuit, approximately 4' of lift**
- **5' Power extension: 12' to 17' reach from center of truck**
- **Power rotate: 180 degrees via heavy duty chain drive**
- **Hydraulic position holding brake**
- **6" Hose x 66' long**
- **Suction hose can be quickly deployed into sewer**

Jetting System:

- **Stationary *Stainless Steel* 1500 Gallon 5-Compartment box shaped water tank**
    - **2" Water fill line**
    - **2" Anti-siphon fill pipe on top of tank**
    - **2-½" Fire hose connection**
    - **Water level sight tube on curbside**
    - **Water Tank Drain on each compartment**
- **URACA P3-45 High pressure triplex water pump**
    - **Designed for Recycle Water**
    - **Rated up to 110 GPM @ 2,500 PSI @ 1350 RPM of the engine**
    - **Integral speed reduction gearbox with 2.62 ratio**
    - **65 MM Plunger diameter**
    - **Safety Pressure Relief Valve**
    - **Crankcase oil cooling system**
- **Water Pump Drive:**
    - **Powered via the mid-ship PTO transfer case**
    - **Belt-driven**
    - **Pneumatic actuated clutch engagement / disengagement**
- **Wiedemann DUO Clutch:**
    - **High Flow Mode to run High Pressure Water Pump at rated capacity**
    - **Low Flow Mode, water pump flow is reduced 40%**
        - **Used for small line cleaning, lateral line cleaning, and hand gun work while maintaining full vacuum system operation**
        - **48 GPM @ 1000 RPM of Engine**
        - **66 GPM @ 1360 RPM of Engine**

- **System:**
    - **4” Water supply line to high pressure pump**
    - **1-1/4” Plumbing to Large Jetter Hose Reel**
    - **Cold weather air purge – pump and hose reels**

Large Jetter Hose Reel:

- **Mid-mounted for best weight distribution**
- **Hose reel spool capacity of 600 feet of 1-1/4” hose or 1000 feet of 1" hose**
    - **3/16” High strength spun steel spool flanges**
    - **External Disc reinforcements**
    - **1-1/2" Heavy duty spool swivel for water, rated to 4000 PSI**
- **Hose reel powered by chain driven hydraulic motor**
- **Automatic hose winder**
- **Constant hose tensioning system (pinch roller) with pneumatic pressure control**
- **Hydraulically powered feed motors on boom to keep constant pay-out tension**
- **1-¼” Pneumatically actuated ball valve – water on/off**
- **Digital Hose footage counter**
- **600 Feet of 1-1/4” Sewer Hose rated for 2500 PSI (Orange)**

Small Jetter Hose Reel:

- **Boom mounted**
- **Hose reel spool capacity of 300 feet of 1/2” hose**
- **Hose reel powered by chain driven hydraulic motor**
- **Automatic hose winder**
- **¾” Pneumatically actuated ball valve – water on/off**
- **By-Pass flow regulator to allow for hand-gun work down to 15 GPM (for intermittent use)**
- **300 Feet of ½” Lateral Line Sewer Hose rated for 4000 PSI (Green)**

Jetting System Options:

- **25’ fill hose – 2 ½”**
- **Hydrant wrench**
- **Basin gun with quick connects**

1” Nozzles

- **1-1/4” Stealth Nozzle with ceramic tips**
- **1” Emperor Nozzle with ceramic tips**
- **1-1/4” Spear Nozzle with ceramic tips**

½” Nozzles

- **½ General Nozzle**
- **½ Power Pull Nozzle**
- **½ Arrow Nozzle DP**

Fresh Water Package:

- **Stationary *Stainless Steel* 125 Gallon Compartment**
- **Water level sight tube**
- ***Electric Powered* Wash-down pump**
- **Rear Bumper Mounted 1/2” x 50’ long hose reel**
- **Hand-held wash-down handgun**

Lights:

- **Six (6) Light Head LED Flasher light package**
- **Warning strobe beacon mounted on front**
- **Warning strobe beacon mounted on rear boom**
- **Two (2) LED rear work lights on tailgate**
- **Two (2) LED work lights on boom**
- **One (1) LED work light per side of truck**
- **LED stop / tail / turn lights**

Storage and Toolboxes:

- **Long body storage compartments on both sides with roll up doors**
- **One Stainless Steel Underbody toolbox on each side**
- **Full Length LED lighting inside storage compartments**

Controls:

- **Engagement controls for mid-ship transfer case PTO in cab**
- **Rear control panel with color coordinated touch screen**
    - **Orange for Vacuum controls**
    - **Green for Recycle system**
    - **Blue for High Pressure Water System**
    - **Black for function controls**
- **E-Stop on rear panel**
- **Two-hand rear curbside dump control**
- **Full systems function screens for Vacuum Operation, High Pressure Water Operation, and Combined Operation with Recycle System**
- **Full Diagnostics and Troubleshooting Screens**
- **Job Card Screen**
- **Master Remote Control with LCD Screen (belly pack)**

Auxiliary Pump-off System:

- **Designed to allow continuous vacuum and recycle operation in high flow sewer lines**
- **Jurop Model VLE16-HDR Rotary Lobe Transfer Pump**
- **Hydraulically Driven with speed reduction gearbox**
- **Rated to operate up to 300 GPM, up to 40 PSI**
- **Automatic operation mode to control fluid level in debris body**
- **Manual operation mode**
- **3” Connection at the rear of the unit with a 3” Aluminum Cam-Lock fitting**
- **Cold weather drain valves**

OPTIONS:

- **Remote auto lube system for chassis and recycle module**
- **Rear camera**
- **Traffic cone holder with 5-traffic cones**
- **Wheel chock holder**
- **Rope reel**
- **Wash Sink**
- **Work Vise**
- **Limited Cold weather operation system (20-Degrees F)**
- **High flow by-pass**

- **Hand wash tank / soap dispenser**
- **URACA pump service tools**
- **Three Days training**
- **Customer Supplied Chassis**

TOTAL AMOUNT DUE **$ 850,000.00**

ALL PRICES ARE IN US DOLLARS.

Delivery, if coordinated by GapVax, is $3.00 per mile, $1,000.00 minimum