

High-Performance

Hydro Excavator

AllExcavate VACALL™

...With High Pressure and Vacuum System

AllExcavate models reflect the superior water pressure and vacuum forces that have established Vacall as an industry leader, efficiently excavating around water lines, sewer lines and other underground utilities. For optimum operating efficiency and cost control, the AllExcavate design uses one engine to power the chassis and also provide power for vacuum and jetting functions – a design that slashes fuel consumption, eliminates emissions from a second engine and reduces costs and downtime for routine maintenance.

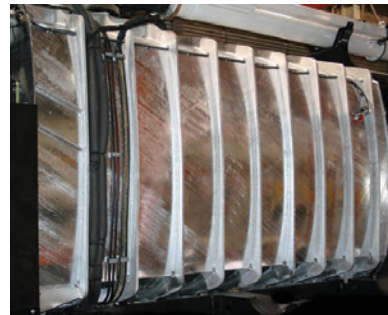
FEATURES & BENEFITS

High pressure water system

A hydraulically driven variable speed system has a digital control to vary the water volume and capacity output, conserving water usage and minimizing refill time.

An available variable water pump produces up to 24.5 gpm with up to 3,000 psi. The system powers a wand, delivering a high pressure stream to break up material.

A self-wind reel has 75 feet of high pressure hose, while an optional hose reel has up to 350 feet of high pressure hose.



Rugged debris bodies that are built to last

An oval shape with cylindrical sides creates extra strength and efficient material dumping. Powder coat paint creates a heavy-duty, durable finish, while the optional galvanized tanks carry a lifetime warranty.

Water tanks have lifetime warranty

Water tanks are fabricated with high quality aluminum for extra strength with a lifetime warranty. Tanks are mounted above the rear fenders, reducing the possibility of damage from highway debris, rocks and stones. Tank position also creates positive head pressure to the water pump inlet.



Productivity in frigid weather

In sub-zero temperatures, operators can use a heated step-in compartment to change clothing and store a handgun and extensions. Cabinets are heated to keep hose, reel and water pumps from freezing.



AllSmartFlow™ intelligent control system is standard

AllSmartFlow™ is an innovative CAN bus control system, located inside a protective cabinet, allowing operators to efficiently make more precise adjustments in boom movement. The programmable color LCD display provides detailed information about engine performance, water flow, water pressure and vacuum functions. A fully proportional pendant, either wired or using wireless capability, is designed for productive control away from the chassis.



Double-cyclone filtration

A multi-stage vacuum filtration system has a simplified design to reduce maintenance, extend performance and increase working life. As material is deposited into the debris body, air continues to move through a dual cyclone separator where more material particles and moisture are removed. The filtered air then passes through the blower, the silencer and the exhaust.

Tailgate design you'll appreciate

A simple, rugged design with a single control allows the operator to open, close and lock the tailgate. Reverse slope lock wedges actually tighten under the weight of the load. A D-ring gasket and shimmed hinge points create a superior seal and performance.



High-Dump Option

Raise the debris tank as much as 76 inches above ground level and shifting back 21 inches to dump material into rolloffs or other containers, rather than travel to offsite dumping locations.



Choose from three boom/hose options

Three different boom and hose options accommodate customer preferences. One design that uses a heavy-duty full-length rubber hose is both durable and flexible with a gum rubber lining that runs from the turret mounted on the debris tank out to the pick-up point. A steel tube-in-tube boom and intake connects to an identical rubber hose elbow that leads to the pick-up point. And the original steel tube-in-tube design has a steel elbow boom and intake tube — the industry standard for strength and durability.



VACALL Hydro Excavator Models - Basic Specifications

| | AE 1010 | AE 1013 | AE 1213 |
|-------------|---|---------------|----------------------|
| Debris Tank | 10 yard ³ | | 12 yard ³ |
| Water Tanks | 1,000 gallons | 1,300 gallons | 1,300 gallons |
| Hose Reel | 75' high pressure hose on self-winding reel | | |
| Boom | 8'6" extending boom 330° rotation | | |

Certified ISO 9001 • 12/14
Form No. 11421 • Printed in U.S.A

Vacall machines are designed and manufactured by Gradall Industries, Inc., a world leader in the production of versatile, reliable maintenance machines. It is our policy to continually improve our products. Therefore, designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. NOTE: some options shown in pictures.



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VACALL™

All Excavate

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SPECIFICATIONS

BLOWER

Blower - Roots

Model 1125 DVJ Tri-Nado

Type: Tri-Lobe Direct Drive

Drive - OMSI air-shift transfer case, power frame-mounted

Speed - 2000 RPM

Blower Vacuum - 27" HG (685.8mm)

Blower Airflow - 2,812 CFM @ 27" HG (79.6m³/min @ 685.8mm HG), 5,800 CFM (164m³/min) free air

DEBRIS TANK

Volumetric Capacity - 10 or 12 Yds.

Dump Angle - 42°

Sides - .250" (6.4mm) thick steel

Construction - Oval shape, cylindrical sides, wrap-around gussets plus rear-mount boom

Lifting - Hydraulic 3-stage telescopic cylinder

Tailgate - Heavy-duty rear full 90°

hydraulically-opening with dual positive locking reverse-angle wedges

Debris Body Safety Prop - Single prop manually-operated, located on hoist frame near rear axles

Tailgate Safety Prop - Located outside beside tailgate driver side

COLD WEATHER

Cabinets - Welded aluminum, fully insulated & heated

Boiler - Stainless steel diesel-fired water heater, 400,000 BTU capacity, 12 VDC pump, 3,500 PSI pressure relief, 180° maximum water temperature

CONTROLS

AllSmartFlow Control Panel - Enclosed cabinet control box containing: CAN bus boom control joystick recessed for protection. LCD color display to increase/decrease engine RPM, water pressure, vacuum. Emergency stop button, water pump hourmeter & blower hourmeter

Wired Pendant - Flex Pro wired pendant with 12 proportional push button; 3-position rotary switch, latching emergency stop

HYDRAULIC SYSTEM

Hydraulic Pump - Pressure-compensated piston pump with JIC fittings

Hydraulic Reservoir - 36 gallon (136.3L)

Suction Filter - 150 micron

Return Filter - 10 micron

VACUUM HOSE

Hose Construction - Smooth bore NR/SBR liner

Hose - 8" bore X 72" long vertical

GENERAL SPECIFICATIONS

Drive - Split shaft PTO with direct drive to blower

Silencer - Inlet & outlet silencers based on blower requirements

Electrical - 12 volt CAN bus system with sealed connectors

WATER SYSTEM

Water Tank Construction - High-quality fully welded aluminum

Water Tank Capacity - 1,300 gal. (5,910L)

Pump Type - Hydraulically powered triplex plunger

System Flow - 10 GPM @ 3,000 PSI (37.9 LPM @ 206.8 BAR)

Hose Reel - .5" (1.3cm) diameter hose, 50' (15.2m) capacity spring rewind

Spray Wand - Handgun with nozzle & extension

Filter - In-line suction strainer on pump inlet

OPTIONS

Wireless Pendant - Controls all boom functions, engine RPM, vacuum relief, emergency stop, water pump speed

Sludge Pump

Brass Slam Valve

Full Load Indicator

Hydraulic Debris Body Vibrator

Anti-Siphon Fill

Hydrant Fill Hose

Platforms & Steps

Work Lights

Strobe Lights

Tool Boxes

700,000 BTU Boiler

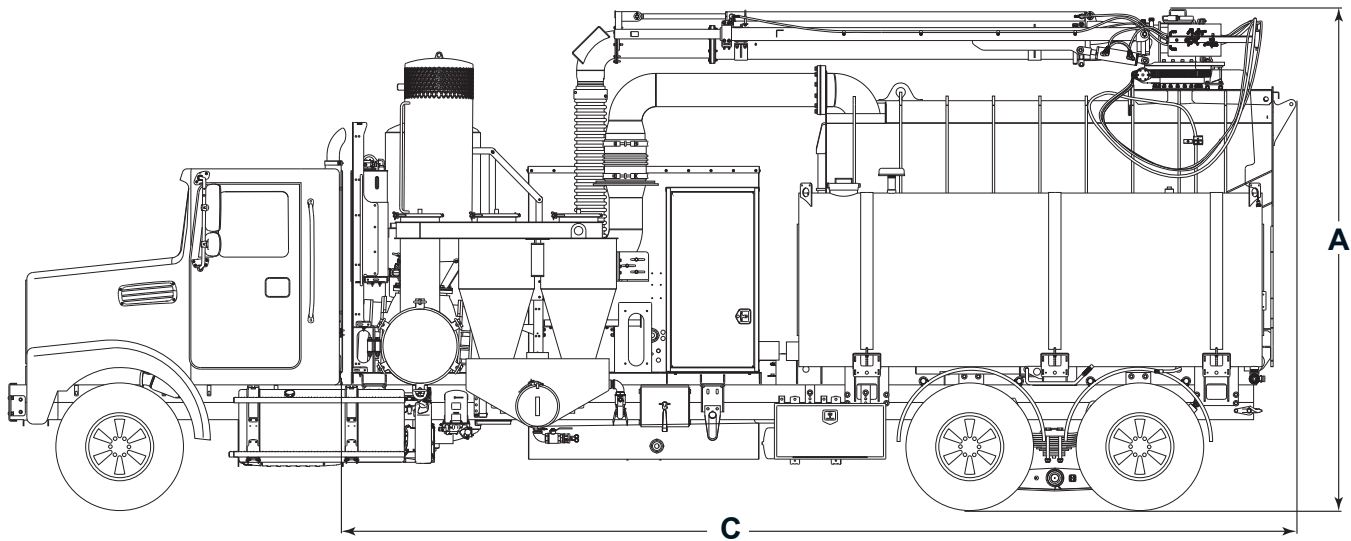
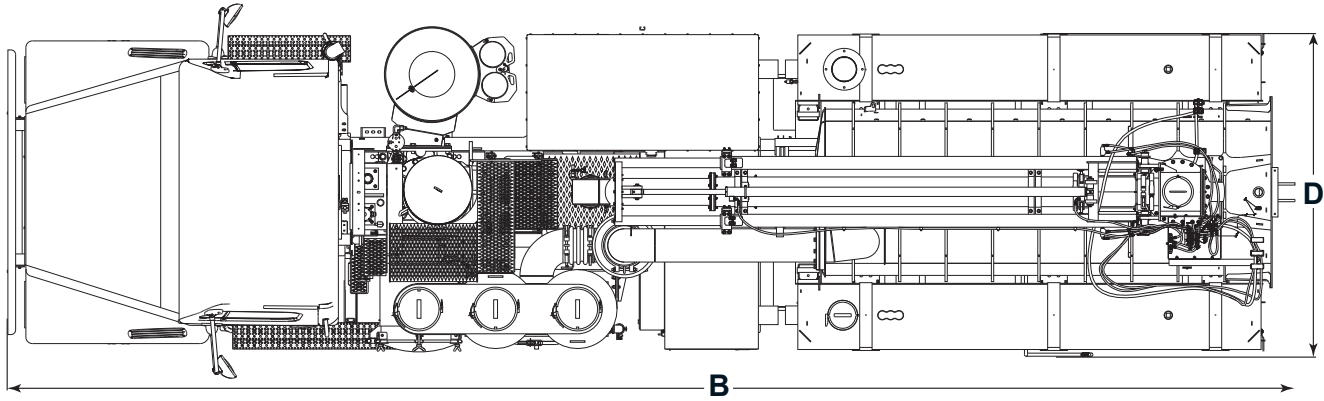
900,000 BTU Boiler

Water Pump - 25 GPM @ 3,000 PSI (94.6 LPM @ 206.8 BAR)

Debris Flushing - Full flow 25 GPM @ 1,700-2,000 PSI (94.6 LPM @ 117.2-137.9 BAR)

Vacuum Tube Racks

VACALL



| DIMENSIONS | MACHINE MODEL NUMBERS | | | |
|----------------------|-----------------------|-----------------|-----------------|-----------------|
| | AE1010 | AE1013 | AE1210 | AE1213 |
| A. Overall Height | 13' 6", (4.1m) | 13' 6", (4.1m) | 13' 6", (4.1m) | 13' 6", (4.1m) |
| B. Overall Length | 36' 7", (11.2m) | 36' 7", (11.2m) | 38' 7", (11.8m) | 38' 7", (11.8m) |
| C. Clear CA Required | 217.5", (5.5m) | 217.5", (5.5m) | 241.5", (6.1m) | 241.5", (6.1m) |
| D. Overall Width | 8' 8", (2.6m) | 8' 8", (2.6m) | 8' 8", (2.6m) | 8' 8", (2.6m) |

NOTE: All dimensions shown are applicable to Freightliner 114-SD Chassis only.

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KELLAR
EQUIPMENT

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