





SPECIFICATIONS

VACUUM SYSTEM

Drive: Split shaft Transfer Case with direct drive to blower, power frame-mounted, step-up ratio

Blower: 8x24 with two vacuum reliefs

Vacuum: Up to 4,100 CFM @ 16" HG (217" H20)

185 HP @ 2,470 RPM

Blower Airflow: 5,400 CFM free air

Blower Inlet: Air water seperation with carbon steel

strainer basket

Cyclone Separator: Single with drop box clean out **Silencer:** Outlet silencer based on blower requirements

Tube Storage: Around silencer

BOOM

Boom Construction: Tube-in-tube

Front mounted Boom Reach: 23' 6" Boom Rotation: 180°

Steel Elbow

Hose: 8" bore x 72" long, single piece rubber hose **Hose Construction:** Smooth bore NR/SBR liner

DEBRIS TANK

Volumetric Capacity: 6 cubic yards

Dump Angle: 42°

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

Sides: .250" thick steel

Lifting: Hydraulic 3-stage telescopic cylinder

Debris Body Safety Prop: Single prop manual

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

Tailgate: Heavy-duty rear 90° hydraulically opening with dual positive hydraulic locks with reverse angle wedges

Tailgate Safety Prop: Located outside beside tailgate driver side

Carbon Steel Float Ball Cage Stainless Steel Float Ball Shut-Off

Decant Port on Tailgate: 6" brass slide gate valve, 6" lay flat hose, storage basket

WATER SYSTEM

Water Pump: 0-87 GPM @ 2,000 PSI (329.3 LPM @ 137.9 BAR)

Pump Type: Hydraulically powered triplex plunger

Water Manifold

Filter: In-line suction strainer on pump inlet

Jetting Hose Reel: 1" Diameter hose, 800' capacity,

direct-drive reel, 180° rotation

Spray Wand and Hose: Handgun with nozzle & extension, 25' hose, 800 PSI @ 20 GPM

Drain Valves: High pressure section, water pump suction line, strainer on water pump inlet, cut-off on

water pump inlet line

Water Pressure Relief Valve: Adjustable

WATER TANKS

Volumetric Capacity: 1,000 gallons

Construction: High-quality fully welded aluminum, 0.25" shell, 0.375" end plates, internal baffles, 2" ball valve for draining on each tank

Water Tank Fill: 4" air gap with water tank electronic level indicator on control panel display

2.5" Y-Strainer: Fill Line

HOSE REEL

Capacity: 800'
Direct-Drive
Rotation: 180°

Tilt: Electric over hydraulic Level Wind: Single Roller

HYDRAULIC SYSTEM

Hydraulic Pump and Motor: Pressure compensated piston pump with ORS fittings to drive water pump

Hydraulic Reservoir: 51 gallons with shutoff valve(s)

Return Filter: 5 microns Level Sight Gauge

OPERATOR CONTROLS

AllSmartFlow Control Panel: Enclosed cabinet control box containing: CAN bus boom control joystick recessed for protection. LCD color display with 32 output microprocessor control (expandable), J1939 can communication, increase/decrease engine RPM, tachometer, hour meter, water pressure PSI, vacuum Hg, water pump hour meter, blower hour meter, vacuum gauge, low water light

Boom Control Joystick: Recessed for protection **Throttle Control:** Increase and decrease RPM

Water Pump: On, off, increase and decrease pressure

Blower: On, off, increase and decrease vacuum

Vacuum Relief: Open and close

Remote Mounted Hydraulic Implement Controls: Debris tank raise and lower, tailgate open and close

Electrical: 12-volt CAN bus system with sealed connectors

Emergency Stop

Electrical Controls and Wiring Harness: IP66 sealed exterior, protective cover exceeds NEMA 4 rating

Travel to Work Mode Shift Controls: In cab

Two Channel Camera System: 7" swivel LCD color back-up monitor

CHASSIS

Toolbox: Steel, lockable, 18" x 18" x 36"

Electric Back Up Alarm

Factory Mounting Tandem Axle: With fenders

Mud Flaps: Behind rear tires

Rear Dot Under Ride Protection (Bumper)

LIGHTING

LED D.O.T. Lighting: Stop, tail, turn and back-up



SPECIFICATIONS (cont.)

PACKAGED ITEMS

1" Standard Nozzle

1" Arrow Nozzle

Small Skid Nozzle: 1" x 3 7/8" x 15"

8" Vacuum Tubes: Bandlock aluminum tubes: 5' (x2), 4' (x2),

3' (x1), 3' Alligator (x1) Tube Clamps: 8" (x7) Gaskets: 8" (x7) Fill Hose: 25' X 2 1/2" Emergency Road Kit

Fire Extinguisher (5#)

PAINT

Supreme Finished Galvanized Air Water Separator

Supreme Finished Galvanized Tailgate

Powder Coat: Subframe, power frame, hose reel, exhaust silencer, boom tubes and tailgate interior and exterior, water tanks and air/water separator exterior only

Debris Tank: Hot dip galvanized interior and exterior, Supreme Finish grey

silver metallic

VACALL ALLJETVAC 610 CHASSIS REQUIREMENTS

Vehicle configuration

· Set back axle - truck

General service

- · Expected front axle(s) load: 18,000 lb (max weight)
- · Expected rear drive axle(s) load: 23,000 lb (max weight)
- Expected gross vehicle weight capacity: 41,000.0 lb (max weight)
- Domiciled, USA 50 states (including California and carb opt-in states)

Engine

Cummins L9 370 hp @ 2100 rpm, 2100 gov rpm, 1250 lb-ft @ 1200 rpm

Engine equipment

- 2010 EPA/CARB/GHG21 configuration (dependent on registration state)
- 2008 CARB emission certification clean idle (includes 6" x 4" label on left side of hood)
- 12-volt, 160-amp alternator
- Passenger side outboard under step mounted horizontal after-treatment system assembly with passenger side b-pillar mounted vertical tailpipe
- 13-gal diesel exhaust fluid tank (mounted under cab)

Transmission

Allison 3000 RDS automatic transmission with side/side PTO provision (minimum)

Transmission equipment

· PTO mounting, driver side and passenger side of main transmission

Rear suspension

• Reyco 79 KB @ 31,000 lb rear suspension

Brake system

Air dryer reservoir mounted (no sideout frame mount)

Wheelbase & frame

- 24" integral front frame extension with 0.25 Inch insert
- Frame overhang: 41" + (1.65 m)
- Calculated effective back of cab to rear suspension c/l (ca): 165" (Usable ca 162" minimum)

Chassis equipment

 Clear frame rails 36" from back of cab inside/outboard/below both frame rails

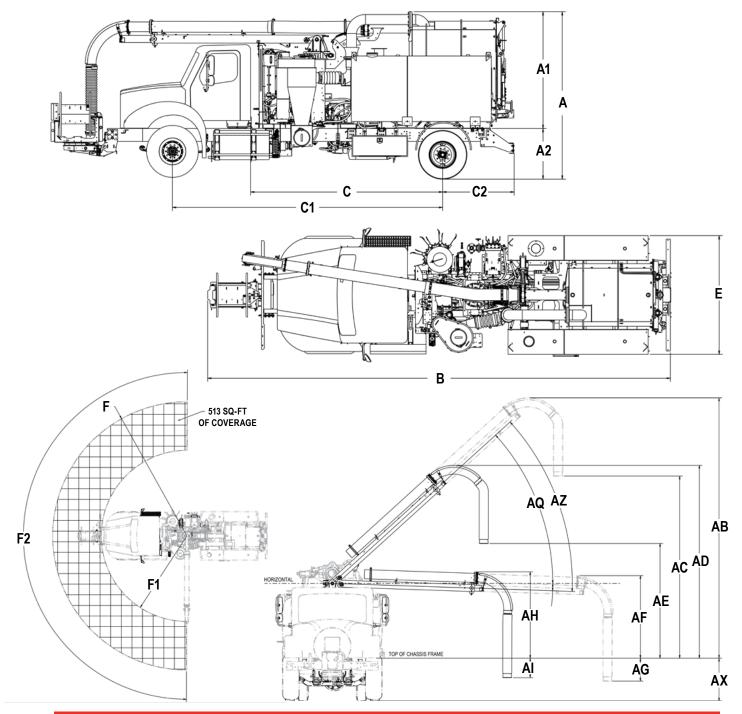
Fuel tanks

100 gal / 25" diameter fuel tank(s)

VEHICLE SPECIFICATIONS SUMMARY – FRAME RBM

Wheelbase (545)	235" (7,150 mm)
Frame Rails (546)	0.5" x 3.64" x 11.875" (12.7 mm x 92.5 mm x 301.6 mm) steel 120KSI (546)
Yield Strength (psi)	120,000
Section Modulus (per rail) (cu in)	26.26
RBM (per rail) (lbf-in)	3,204,000
Inner Frame Reinforcement (547)	0.25" (6.35 mm) c-channel inner frame reinforcement
RBM (per rail) (lbf-in)	1,205,000

Outer Frame Reinforcement (548) No outer frame reinforcement



DIMENSIONS

Α	~11'11" (3.63m) CHASSIS VARIABLE	Overall Stored Height	AB	~22'1" (6.73m)	Boom Max Working Height Extended
A1	~8'4" (2.54m)	Module Stored Height	AC	~15'5" (4.69m)	Hose Max Height Extended
A2	CHASSIS VARIABLE	Chassis Frame Height	AD	~16'4" (4.97m)	Boom Working Height Retracted
В	~33'2" (10.1m)	Overall Length	ΑE	~9'9" (2.97m)	Hose Height Retracted
С	~13'9" (4.19m)	Module Length Front	AF	~7'0" (2.13m)	Boom Min Height Extended
C1	~19'4" (5.89m) CHASSIS VARIABLE	Wheelbase	AG	~1'11" (0.58m)	Hose Min Height Extended
C2	~5'1" (1.54m)	Module Length Rear	AH	~7'4" (2.23m)	Boom Min Height Retracted
Ε	~8'6" (2.59m)	Overall Width	ΑI	~1'8" (0.5m)	Hose Min Height Retracted
F	~23'6" (7.16m)	Boom Max Reach	AQ	42°	Boom Max Up Angle
F1	~15'0" (4.57m)	Boom Min Reach	ΑZ	44°	Boom Total Angle
F2	180°	Boom Rotation	AX	CHASSIS VARIABLE	Chassis Frame Height

NOTE: All dimensions shown are applicable to Freightliner 108SD Chassis only.

OPTIONS

Wireless Belly Pack Control: Controls all boom functions, engine RPM, vacuum relief, emergency stop, and water pump speed. Other functions also available.

Wireless Pendant Control: Controls all boom functions, engine RPM, and vacuum relief

Air Purge System

Sludge Pump

4" Brass Slide Gate Valve for Decant

Full Load Indicator

Electric Debris Body Vibrator

Vacuum Relief: Air operated 4" or 6" valve controlled at control panel and handheld pendant

Anti-Siphon Fill

Work Lights

Strobe Lights

LED Boom Work Lights

Toolboxes

Vacuum Tube Racks

Camlock Fill Adapter

SS Float Ball Cage

Blaster Valve

SS Hinged Decant Screens

Standpipes: Various sizes

Anti-Splash Valve

Water Tank Sight Level Tube: Passenger Side

Air Compressor

Anti-Freeze Injection

Dual Reels

Hydraulic Rewind Reel

2" Drain Valve on Air Water Separator

2" Drain Valve on Silencer

6" Air Operated Vacuum Relief

Tube in Tube Boom Hose, Steel Elbow or

Rubber Elbow

Lube Chart

Blower Temp Gauge

Blower Temp Gauge: Connected to

vacuum relief

Debris Tank High Level Alarms and Light

Debris Tank High Level Alarms and Light:

Hooked to vacuum relief

Camera System

Power Pack with Emergency Hydraulics

Remote Emergency Stop

Tool Circuit

Low Water Light and Alarm

Override for Alarms

Spotlights

First Aid Kit

Nozzles

Handguns: Piston and straight grip

Vacuum Tubes: Various sizes and

connection ends

Hydro Excavation Option

Cold Water Recirculation System

Washdown Hose Reel: .5" diameter hose,

50'capacity spring rewind

All Smart Flow



- **All Electrical System**
- Open/Close Water Valves on Water Manifold with a Push of a Button





- **Continuously Vacuums Water from Sewer Lines**
- **Five-Stage Water Filter Process**
- Reuse the Water from Jetting All Day Long



Printed in U.S.A • Form No. 12505 10/25

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