

VACALL™

SuperSweep



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SPECIFICATIONS

FAN

Drive: Closed Loop Hydrostatic
Speed: 0-3000 RPM
Fan Rating: 33,600 CFM (951 m³/min.)
Fan Vacuum: 0-50 in H₂O (250: 1270 mm H₂O)
Fan Construction: ASTM A572 Grade 50 Steel
Fan Housing: 0.25 in. (6.35mm) 30 KSI Steel

DEBRIS HOPPER

Volumetric Capacity: 13 or 16 yds³ (9.9 or 12.2 m³)
Floor Angle: 0°
Dump Angle: 50°
Sides: Flared to rear for clean-out
Construction: 11 gauge (3 mm) ASTM A572 Grade 50 Steel
Lifting: Double-acting hydraulic cylinder with load-holding valves
Tailgate: Hydraulic open/close, lock/unlock
Full Load Indicator: Optional weight-activated with in-cab warning light
Hopper Screens: Quick-release stainless steel construction with stainless steel screen tracks
Debris Body Safety Prop: Dual props on hoist frame located by nozzle intakes
Tailgate Safety Prop: Located outside beside the tailgate
Body Dumping Controls: Wired pendant and in-cab controls with up/down variable-speed and emergency stop
In-Cab Dumping Controls: Standard

SPRAY WATER SYSTEM

Water Tank Construction: 5052-H32 fully welded aluminum
Water System Capacity: Max 600 gal. (2271 L) based on GVWR
Pump Type: Hydraulically powered centrifugal pump
System Flow: 0-140 GPM (0-532 LPM) variable speed
System Pressure: 0-130 PSI (0-9 BAR)
Spray Wand: With ball valve and 25 ft. (7.6m) hose
Controls: Wired pendant and in-cab controls with on/off variable speed
Filter: 200 mesh, cleanable
Anti-Siphon Fill: Standard
Hydrant Fill Hose: 25 ft. (7.6 m) with coupling

SIDE BROOMS

Diameter: 36 in. (914 mm)
Speed: Variable
Drive: Hydraulic motor, with over-pressure protection
Mounting: Floating arm
Motion: Inward/outward, up/down
Tilt Adjustment: Inward/outward, forward/backward
Digging Pressure/Wear Control: Hydraulic
Type: Segment set disposable
Material: Oil tempered steel wire

GENERAL SPECIFICATIONS

Power: Chassis engine provides all power using an Allison RDS series automatic transmission with transfer case-driven hydraulic system powering all sweep functions
Sweeping Vacuum: 10-50 in. H₂O (250-1270 mm H₂O)
Sweeping Speed: 0-11 mph (0-17.7 kpm) with speed-limiting control
Propel while Sweeping: Fully automatic with accelerator/brake pedal used to control speed and stopping. Engine speed is maintained by a controller
Auto Store: Shuts off brooms, water, fan and lifts and stores brooms and nozzles for non-sweeping/highway operation
Sweeping Operation: Brooms operate from under the sweeper to full extension
Measured Sweeping Path: 154 in. (3912 mm) with 36 in. gutter brooms

VACUUM NOZZLE

Dual Nozzle Width: 96 in. (2438 mm)
Pickup Area: 892 in² (576,000 mm²)
Construction: Steel with abrasion-resistant steel liners
Hose Connection: Mechanical clamps
Hose Construction: Flexible rubber, steel reinforced
Hose: 12 in. (305 mm) inside diameter

HYDRAULIC SYSTEM

Implement Pump: Open loop piston pump, direct gear-driven. Powers brooms, water pump, debris tank, tailgate functions and optional boom
Propel Pump: Closed-loop piston pump, direct gear-driven. Propels truck while sweeping
Fan Pump: Closed loop piston pump, direct gear-driven. Powers fan
Reservoir Capacity: 70 gal. (265 L)
Filter: 6 micron spin-on type with in-cab restriction indicator

ELECTRICAL SYSTEM

Lights: Side broom, rear clearance, rear identification.
Reversing Safety: Electric back-up alarm
Wiring Harnesses: Color-coded function, stamped and labeled every 3 in. (75 mm)
LED Clearance Lighting: Standard

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OPTIONS

Articulated Boom and Rear Vacuum Hose: 1000 lb. (454 kg) lift capacity, wired pendant, and in-cab controls with up/down variable speed, 100 in. (2540 mm) long, steel reinforced, flexible rubber hose available in:

8 in. (203 mm) diameter hose with hydraulically powered boom

12 in. (305 mm) diameter hose with manual or hydraulically powered boom.

Auto Raise: Shuts off brooms and water, lifts brooms and nozzles, automatic operation in reverse, operation resumes with previous set parameters when traveling forward, automatic or manually-controlled from the cab

Auxiliary Hydraulic System: Provides emergency operation of debris body dumping controls

Body Vibrator: Controlled from wire pendant and in-cab controls with on/off, (controlled from optional additional wireless pendant)

Debris Body: Carbon steel grade 50 or stainless-steel construction with or without interior powder coated paint

Dual Steer

Hose Boom with Powered Rotation: Controlled from wire pendant and in-cab controls with on/off, (controlled from optional additional wireless pendant)

LED Strobe Lights

Rear Boom Twin Beacon Lights

Rear Jetting Hose Reel

Rear Work Lights

Receptacle and Hand-Held Spotlight

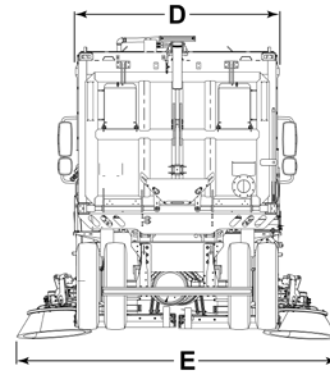
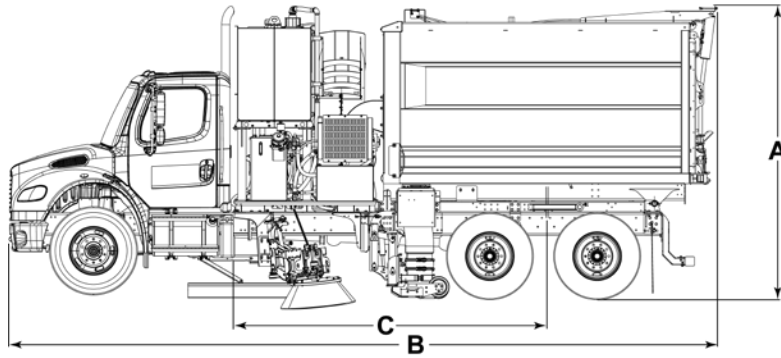
Side Broom Tilt

Tool Boxes

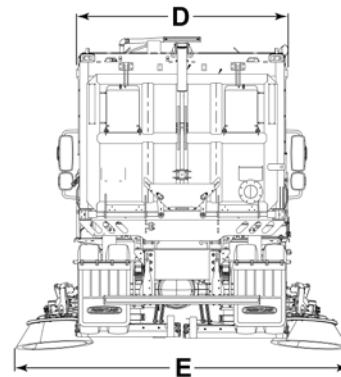
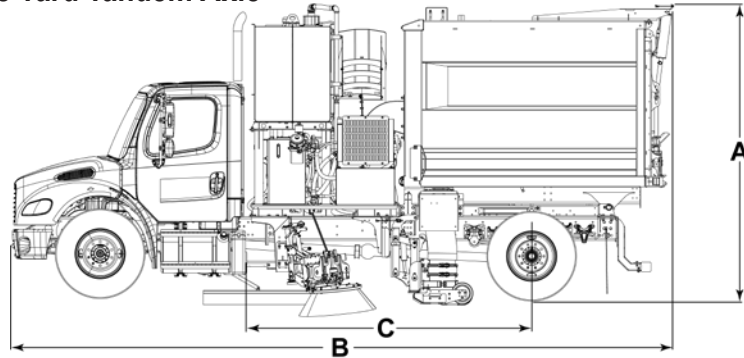
Wireless Pendant: Installed in addition to wire pendant. All of the following with speed control: debris body raise/lower, tailgate lock/unlock, tailgate raise/lower, fan on/off, water pump on/off and rear boom raise/lower. Emergency stop and optional vibrator on/off.

Work Lights: Passenger side or driver's side

16 Cubic Yard Tandem Axle



13 Cubic Yard Tandem Axle



DIMENSIONS	DIMENSIONS	
	SS13	SS16*
A. Overall Height	11'5" (3.5m)	11'9" (3.7m)
B. Overall Length	25'8" (7.8m)	28'4" (8.6m)
C. Clear CA Required	11'3" (3.4m)	12'8" (3.8m)
D. Overall Width	8'4" (2.5m)	8'4" (2.5m)
E. Sweep Path	96"-154" (2.4-3.9m)	96"-154" (2.4-3.9m)

NOTE: All dimensions shown are applicable to Freightliner M2-106 Chassis only.
* Rear Tandem Axle Required.

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Vacall machines are designed and manufactured by Gradall Industries LLC., 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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