Searching for a solution that eliminates maintaining and servicing an auxiliary engine on a vacuum sweeper? Elgin® Sweeper Company has the answer. The Whirlwind1 eliminates all things associated with a diesel auxiliary engine, providing value to customers that extends beyond having one less engine. Elgin Sweeper single-engine technology has undergone years of customer focused testing and validation; ensuring a design that exceeds expectations!

**ELIMINATES:**
- Maintaining two engines
- Complex aftertreatment system, and maintenance
- Untimely auxiliary engine regenerations
- Cost exposure resulting from “missed” auxiliary engine regenerations
- Cumbersome belt tensioning systems
- Auxiliary engine noise and vibration

**CUSTOMER FEEDBACK:**
- Increases productivity
- Easy to use and learn; single push-button on-the-fly operation
- Quiet operation
- Reduces daily checks

**EXHAUSTIVELY PROVEN OVER:**
Years of testing and validation, with thousands of miles and hours in operation, and customers market driven feedback to ensure a design that exceeds expectations.
**Sweep System - Single-Engine**

**VARIABLE SPEED DEVICE (VSD)**
Replaces auxiliary engine; installed between the chassis engine and the Allison transmission

“Road Mode” VSD produces 1:1 speed ratio between chassis and transmission

“Work Mode” VSD allows chassis - accelerator pedal to control input to transmission and engine speed remains constant - fan speed is adjustable
- Singular in-cab push button control
- No parking brake requirement
- No complex EPA off-highway aftreatment system

**SINGLE-ENGINE SYSTEM**
Make  Variable Speed Device
Type  Planetary Gearbox Design
Horsepower  240 (179 kW) approved input rating
Torque  560 ft-lb approved input rating
Air Cleaner  Dual safety element dry type
Alarm  Low hyd. oil / high hyd. temp

**CHASSIS ENGINE**
Make  Cummins ISB 6.7 or equivalent
Type  in-Line 6 cylinder, turbocharged
displacement  409 cu. in. (6.7 L)
Horsepower  200 (150 kW) @ 2400 RPM
Torque  520 lbs (708 Nm) @ 1600 RPM
Fuel Tank Capacity  50 gal (189 L)

**ELECTRICAL SYSTEM**
Chassis Battery Rating  12 volt
Sweeper Battery Rating  1000CCA
Chassis Engine Alternator  160 amperes
Lights  Side bumper, rear clearance, rear identification
Reversing Safety  Electric back-up alarm, sweep components raise automatically
Wiring Harnesses  Color coded, function stamped and labeled every 4 in (100 mm)

**INSTRUMENTATION / CONTROLS**
Rockers switches in central console gauges: Blower tachometer, hour meter, fuel, voltmeter, coolant temperature, spray water level gauge, hopper up, hopper rear door open, full load indicator
Memory Sweep  Sweep resume feature
VSD Mounted Oil Level Sight Gauge

**Sweep System - Components**

**GENERAL SPECIFICATIONS**

**Sweeping Path**
(with 36 in side broom):
- Suction nozzle only 32 in. (813 mm)
- Suction nozzle & one side broom 53 in. (1346 mm)
- Suction nozzle & extension broom 85 in. (2159 mm)

**BLOWER**
- Drive  Direct Jaw-type coupling with hydraulic 2.87 cu-in (47 cc) displacement
- Blower Construction  Hardox brand steel
- Blower Housing 10 gauge (3.4 mm) steel, rubber-lined for extended wear

**Vacuum Nozzle and Hoses**
- Nozzle Width 32 in (813 mm)
- Pickup Area 174 in² (1119 cm²)
- Construction  Abrasion resistant steel components
- Hose Construction  Quick disconnect type at lower area near vacuum nozzle
- Hose Flexible rubber, steel reinforced
- Hose 11 in (280 mm) inside diameter

**Side Broom**
- Diameter 28 in (711 mm) WB Chassis Specific
- Construction Steel plate
- Speed  Constant
- Drive  Hydraulic motor, protected by relief valve

**Debris Hopper**
- Volumetric Capacity  8.0 yd³ (6.0 m³)
- Floor Angle 10°
- Dump Angle 50°
- Construction 10 gauge (3.4 mm) steel sides and top, 1/4° (6.4 mm) steel floor
- Lifting Double acting hydraulic cylinder
- Hopper Dump Door Hydraulic open/ close and lock/unlock
- Full Load Indicator  Weight actuated with in-cab warning light
- Hopper Screens Hinged, quick release, steel
- Safety Prop Steel bar under body and outside rear door
- Hopper Dumping Controls Push button on right side of unit
- In-Cab Dumping Controls Standard

**Available Enhancements**
- Front spray bar
- Aux. lighting packages
- In-cab side broom tilt
- Variable broom speed
- Auxiliary hydraulic system
- Wandering hose 8 in (203 mm) diameter
- Auto lubrication system
- LifeLiner® Hopper System
- Stainless steel hopper
- Hopper inspection door(s)
- Hopper drain
- Hopper deluge washout system
- Auto-shutter
- High/low pressure washdown
- Auxiliary water tank capacities
- PM-10 water system
- Quiet Pak™ acoustical insulation on front cowling and access doors
- Extended warranty

**Paint**
Powder Coated, Standard Elgin white and gray

Your Elgin Dealer is: [Consult Factory]

**Chassis**
- Sweeper
- 1 year parts and labor
- VSD
- 3 year parts and labor

**Warranty**

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