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

**ELIMINATES:**
- Maintaining two engines
- Complex aftertreament 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
- In “Road Mode” VSD produces 1:1 speed ratio between chassis and transmission
- In “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 aftertreatment 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: For Low Hyd Oil / High Temp

### Chassis Engine
- Make: Cummins ISB 6.7 or equivalent
- Type: In-line 6 cylinder, turbocharged diesel
- Displacement: 409 cu. In. (6.7 L)
- Horsepower: 200 (150 kW) @ 2400 RPM
- Torque: 520 ft·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

### Instrumentation / Controls
- Rocker 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

### Sweep System - Components

#### General Specifications
- **Sweeping path:**
  - Pickup Head only: 90 in (2,286 mm)
  - Pickup Head & one Side Broom: 117 in (2,971 mm)
  - Pickup Head & two Side Brooms: 144 in (3,658 mm)
- **Travel speed:** Up to highway speed

#### Blower
- **Drive:** direct Jaw-type coupling with hydraulic 2.87 cu-in (47 cc) displacement bent axis motor
- **Blower Construction:** Hardox brand steel
- **Blower Housing:** 10 gauge (3.4 mm) Steel, rubber-lined for extended wear

#### Pickup Head
- **Length:** 90 in (2,286 mm)
- **Head Area:** Approx. 2,700 in² (17,420 cm²)
- **Hose Diameters:**
  - Pressure: 14 in (355 mm)
  - Suction: 12 ¾ in (324 mm)
- **Control:** Hydraulic raising and lowering
- **Vacuum Enhancer:** External, manually controlled
- **Hose Connection:** Quick disconnect type near pickup head at lower area of suction hose
- **Hose Construction:** Flexible rubber steel reinforced

#### Side Broom
- **Diameter:** 42 in (1067 mm)
- **Disc Construction:** Steel plate
- **Available Enhancements:**
  - Glycol recovery system
  - FSX Airport Application System
  - MemorySweep®
  - Hopper drain
  - Center broom in pick-up head
  - High/low pressure washdown
  - Auxiliary water tank capacities
  - Water system air purge
  - Water system
  - Caster pick-up head wheels
  - Full-width magnet
  - Cast aluminum side air blast nozzle
  - Aluminum refillable side broom segments
  - Extended warranty

#### Debris Hopper
- **Type:** Segment set disposable

#### Hydraulic System
- **Purpose:** Powers hydraulic motors on side brooms, blower fan, and activates hopper dump cycle
- **Filter Blower System**
  - Vacuum Pump Pressure: 240 (179 kW) approved input rating
  - Pump Pressure: 40 PSI (2.7 bar)
  - Spray Nozzles: Total of 16
  - Spray Nozzles: Total of 16
  - Controls: On-off switches in cab, manually adjustable valves
  - Filter: 100 mesh, deable
  - Fittings: Prestomatic Push-To-Lok type with thermoplastic tubing

#### Spray Water System
- **Water Tank Construction:** Polyethylene
- **Water Tank Capacity:** 240 gal (908 L)
- **Fill Hose:** 16 ft 8 in (5,080 mm)
- **Pump Type:** Diaphragm with run-dry capability
- **Pump Capacity:** 8 GPM (30 LPM)
- **Pump Pressure:** 40 PSI (2.7 bar)
- **Spray Nozzles:** Total of 16
  - (21, with optional center broom)
- **Controls:** On-off switches in cab, manually adjustable valves

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### Paint
- Powder Coated, Standard Elgin white and gray

### Chassis
- Available on commercial cabover and conventional
- Consult factory

### Warranty
- **Sweeper:**
  - 1 year parts and labor
  - VSD
  - 3 years parts and labor

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*Chassis dependent

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