

# **Broom Bear®**

# **Single Engine CNG Alternative Fuel**





3600 PSI Composite Fuel Tanks



Conveniently Located Fill Door

# **Low Emissions - Highly Economical Single Engine**

The Elgin Broom Bear is now available powered by compressed natural gas. This means that a popular, commercial chassis, single engine mechanical sweeper is finally available. This rugged, mechanical sweeper is powered by the state of the art Cummins Westport L9N N-Gas natural gas engine making the Broom Bear a fully certified EPA/CARB emission standards single engine street sweeper. The Broom Bear can also be SCAQMD rule 1186 compliant with the optional PM-10 package. With it's three 3600 psi composite fuel tanks, the Broom Bear has a generous 51 gallon diesel equivalent fuel capacity giving a sweeping range even beyond the standard diesel Broom Bear. The Elgin Broom Bear is still tough on dust and debris while being easy on operators, but is now also easy on the environment.



**Optional In-Cab Mounted Methane Detection** 

For more information or to schedule a demonstration, contact your local Elgin dealer or visit www.elginsweeper.com to locate a dealer near you.

### CNG Engine

#### **Engine**

Make Cummins Westport L9N N-Gas charge air cooling Type In-line, 6 cylinder Displacement 540 cu. in. (8.9 L) Horsepower 260 hp @ 2000; 2200 RPM GOV

Peak Torque 660 ft./lbs. @ 1300 RPM

#### Chassis

Mounted on Freightliner M2 or Autocar Xpert Contact your Elgin dealer for detailed Chassis specifications

#### **Engine Accessories**

Spin-on CNG filter/water separator 18.7 SCFM air compressor Spin -on full flow/bypass oil filter Air intake warmer Engine block heater Viscous fan drive Auto shutdown protection

### CNG Fuel System

51.2 Gallon Diesel Equivalent Three aluminum core, filament wound, 3600 psi gas cylinders 3600 psi nominal service pressure 50 scfm high flow CNG filter with coalescing and particulate elements Stainless steel fuel lines Meets all North American and international NGV system standards

#### **General Specs**

Sweep Path:

Main broom only: 60" Main broom & one side broom: 90" Main broom and 2 side Brooms: 120" Chassis Commercial Class 7 Wheel Base Chassis dependent Warranty Sweeper, 1 year parts & labor

#### **Main Broom**

Type Prefab disposable Polypropylene filled Diameter 34" (864 mm) Broom Material Polypropylene Length 60" (1524 mm) Core Type Disposable steel tube Speed Constant **Drive** Hydraulic motor with direct drive Digging Pressure & Wear Control Variable geometry spring Lift Control Hydraulic Mounting Full-floating trailing arm

Type 5 or 6 segment plastic disposable **Diameter** 46" (1188 mm) Broom material 26" wire (660 mm) Disc Construction Steel **Speed** Adjustable on side of machine **Drive** Full hydraulic Digging Pressure & Wear Control Pneumatic, from cab Lift Control Pneumatic Flexibility Free-floating and full sideways oscillation Mounting Trailing Arm

Type Squeegee with replaceable rubber edging Material (elevator bottom) Bolt-in multi section abrasion resistant steel plates Speed Constant, forward and reverse Flexibility Lift independent (for large object passage) **Drive** (forward and reverse) Hydraulic motor Adjustment Hydraulic chain adjuster Lift Control Hydraulic (independent of rear broom)

Ground Clearance Liftable to 12" (305 mm) for bulk object passage Cascade Washdown With fill diverter

#### Instrumentation/Controls

Warning Lamps & Buzzer

Low hydraulic oil Conveyor stall

Warning Lamps

Hydraulic oil temperature Hydraulic oil filter restriction Low water spray Broom position Hopper position Water tank level

## **Electrical System (Chassis)**

Twelve Volt Negative Ground System 160 amp alternator Battery 2- Group 31, 1850 CCA Circuit Protection Activated by ignition switched constant duty solenoid (except lights) Wiring Hot stamp identified with weatherproof connectors

#### **Hydraulic System**

Sweep System Pump Variable displacement Capacity 22 GPM Fittings O-ring face seal Reservoir Capacity 23 gal Inlet Strainer 100 mesh Return Filter 6 micron Filter Restriction Indicator Breather 10 micron Cooler Externally mounted Valves Electro-hydraulic

Volumetric Capacity 4.5 yd<sup>3</sup> (3.4 m<sup>3</sup>)

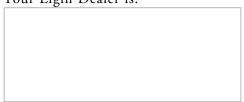
#### **Hopper**

Material Volume 3.3 yd3 (2.5 m3) Hopper Lift and Dump Controls Electro/hydraulic in cab Inspection Door Offload Right Side Minimum dump height 38" (965 mm) Maximum dump height 11' 2" (3404 mm) Maximum hopper dump angle 50° Design lift capacity 11,000 lbs (4,990 kgs) Lifting mechanism Two stage scissors with hydraulic cylinders

#### **Water Spray System**

Tank Construction Polyethylene Tank Capacity 360 gallons (1362 L) Fill Hose 15' 0" (4572 mm) with 2.5" (64 mm) NST hydrant coupling Pump Electric diaphragm **Spray nozzles** 3 across main broom and over each gutter broom Water Filter 80 mesh plastic housing Controls In cab pump control and flow control valves at each side broom

## Your Elgin Dealer is:





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