**GENERAL SPECIFICATIONS**

**MODEL HSP® REGENERATIVE AIR SWEEPER®**

**FINAL TIER 4 AUXILIARY ENGINE/CABOVER CHASSIS**

---

**SWEeper Auxiliary Engine**

- Engine: John Deere 4045 turbo, 4 cyl. (Final Tier 4)
- Displacement: 275 in³ (4.5 L)
- Power: 99 HP @ 2200 RPM (74 kW)
- Net torque: 315 lb-ft @ 1600 RPM (427 Nm)
- Air cleaner: Heavy duty, w/pre-cleaner, scavenged vacuum hose, and in-cab air restriction indicator w/gauge.
- Remote oil filter: Spin on, full flow auxiliary engine fuel tank shared with chassis.
- Diesel fuel tank capacity: 51 gal (193 L)
- DEF tank: Dedicated
- Capacity (volumetric): 5.4 gal (20.6 L)
- Capacity (useable): 3.8 gal (14.4 L)
- Auxiliary engine protection system
- Fuel/water separator and separate fuel filter
- Open crankcase ventilation (OCCV) filter

**HYDRAulic System**

- Operates gutter broom(s), dump and pick-up head
- Drive: Gear driven from auxiliary engine
- Capacity: 8 GPM (30.3 LPM)
- Reservoir: 25 gal (94.6 L) w/80 mesh suction strainer, sight/temperature gauge, cooler, filter, and 1 micron in-line anti-damage "swing away" relief valve
- Down pressure: Automatically adjusts to requirement
- Flexibility: All directions integral anti-damage "swing away" relief valve
- Broom: 43 in dia. (1092 mm)
- Steel wire, vertical digger

---

**DUST Control System**

- Water spray nozzles for dust suppression
- Pump: Electric diaphragm
- Reservoirs: Polyethylene 330 gal (1249 L) total
- Filter: 80 mesh in-line
- Low water shut-off: Safety shut-off with low water warming light in cab coupled with liquid level sensor
- Spray nozzles:
  - Around pick-up head
  - Gutter brooms (each)
  - Hopper (inside)
- Hydrant fill hose w/storage area
- Down pressure, pattern and wear non-reversible hydraulic motor
- Drive: Constant speed parabolic mirrors
- Down pressure: Automatically adjusts to requirement
- Auxiliary hydraulic system
- Drive: Gear driven from auxiliary engine

---

**Control System**

- BlueLogic® Control System
- Multiplexed electrical system includes hardware and TYMCO designed software that integrates the in-cab controls to the auxiliary engine and all sweeper functions; as well as provides intelligent safety features and on-board diagnostics (OBD) for the auxiliary engine and sweeper through the BlueLogic display.
- BlueLogic Display
- Pedestal mounted touchscreen display provides sweeper and auxiliary engine data to the operator and includes hour meters (trip and total) for the auxiliary engine, gutter brooms, pick-up head, auxiliary hand hose, and water pump; gutter odrometer (records curb miles swept and sweeping hours), service reminders, custom reminders, overspeed warning, low water audible alarm, dust control system winterization guide, and OBD.

---

**Interior Components**

- BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, auxiliary engine RPM, leaf pressure bleeder, dust control water system nozzles, safety lights.

**Exterior Components**

- Dump switch, BlueLogic multiplex module

---

**SAFETY/WARNING DEVICES**

- Alternating LED rear flashers (2)
- Back-up alarm
- SAE Class 1/California Title 13 amber beacon light with limb guard - LED

**OPTIONAL EQUIPMENT**

- AOD water pump w/washdown hose/spray gun
- Abrasion protection package
- Auto Sweep Interrupt (ASI)
- Auxiliary hand hose 8 in dia. (203 mm)
- Auxiliary hand hose hydraulic boom assist
- Auxiliary hand hose catch basin cleaning package
- Auxiliary hydraulic system
- Camera/monitor system
- Gutter broom tilt adjuster(s) (left, right, or twin)
- Gutter broom variable speed
- Gutter broom drop-down
- Hi/Low pressure washdown system
- High output water system
- Hopper deluge system
- Hopper drain system
- Lateral airflow nozzle
- Liquid recovery system
- Low emissions package (required for South Coast AQMD Rule 1186)
- Magnet, light, standard, or heavy duty
- Pick-up head curtain/lifter
- Shop air purge, dust control system
- Spark resistant skids
- Stainless steel options: Hopper, Back-up alarm, Dump door, Inspection doors, Raker plate, High capacity dust separator, Hopper screen, Blower plate, High capacity dust separator, Hopper screen, Blower plate, High capacity dust separator, Hopper screen, Blower plate
- Paint color (other than TYMCO standard white)

---

**Special options are available for your individual requirements. Contact your local dealer or TYMCO.**

---

**CABOVER ChASSIS AVAILABLE**

- Peterbilt 220
- Autocar Xpert