





# 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)

- Net torque......315 lb-ft @ 1600 RPM (427 Nm)
- Air cleaner ..... Heavy duty, w/pre-cleaner, scavenge 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)

Auxiliary engine protection system

Fuel/water separator and separate fuel filter Open crankcase ventilation (OCV) filter

## **BLOWER, Rubber Lined**

Aluminum alloy, high volume, open face turbine Purpose .....Creates blast and suction Bearings ...(2) sealed lifetime lube, anti-friction Bolt-on housing .....Abrasion resistant, replaceable liner

Drive .....Heavy duty power band

## **DUST SEPARATOR, HIGH CAPACITY**

Type .....Cyclonic, multipass, centrifugal separation

Size ......20 x 61 in L cylindrical area (508 x 1549 mm)

Located adjacent to blower within hopper

Particulate removal achieved through 61 in

- (1549 mm) skimmer slot into skimmer hood Hinged inspection door opened from hopper exterior
- Abrasion resistant housing w/replaceable wear resistant liner

# HOPPER

Capacity (volumetric) .	7.3 yd <sup>3</sup> (5.6 m <sup>3</sup> )
	6 yd <sup>3</sup> (4.6 m <sup>3</sup> )
Construction	Welded steel plate
with integral stiffeners	5
Floor angle	22°
	84 x 44 in
Dumping height	
with integral stiffeners Floor angle Dump door opening (2134 x 1118 mm) Dumping method	

## **PICK-UP HEAD, HSP, Patented**

Type ..... Dual chamber Function ..... Delivers air blast and suction Width (inside dimension) ...... 87 in (2210 mm) Suspension ...... 4 springs, 2 drag links Skids......DUO SKID®, long-life carbide Suction hose diameter..... 10 in (254 mm) 

Integral for leaf/light material pickup

# **GUTTER BROOM.** TWIN. Patented

Standard equipment includes floodlights and parabolic mirrors

- Drive .....Constant speed non-reversible hydraulic motor
- Adjustment..... Adjustable for down pressure, pattern and wear
- Down pressure ......Automatically adjusts to requirement
- Flexibility ...... All directions integral
- steel wire, vertical digger

# **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 Temperature shutdown system

# **DUST CONTROL SYSTEM**

Water spray nozzles for dust su	
PumpEle	
Reservoirs	Polyethylene
330 gal (1249 L) total	
Filter	80 mesh in-line
Low water shut-off with low water warning light in with liquid level sensor	
Spray nozzles:	
Around pick-up head	4
Gutter brooms (each)	
Hopper (inside) Hydrant fill hose w/storage area	a 20 ft (6 m)

# **CONTROL SYSTEM**

BlueLogic<sup>®</sup> 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, blower, and water pump; sweeper odometer (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 día. (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: Höpper weldment Dump door Inspection doors Raker plate High capacity dust separator Hopper screen Blower housing High capacity dust separator Hopper drain 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