



## 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 in<sup>3</sup> (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 and  
scavenge vacuum hose  
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 (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  
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>)  
Capacity (useable) ..... 6 yd<sup>3</sup> (4.6 m<sup>3</sup>)  
Construction ..... Welded steel plate  
with integral stiffeners  
Floor angle ..... 22°  
Dump door opening ..... 84 x 44 in  
(2134 x 1118 mm)  
Dumping method ..... Hydraulic with raker bar  
Dumping height ..... 36 in (914 mm)

### PICK-UP HEAD, HSP, Patented

Type ..... Dual chamber  
Function ..... Delivers air blast and suction  
Width (inside dimension) ..... 87 in (2210 mm)  
Pick-up head area ..... 2784 in<sup>2</sup> (1.79 m<sup>2</sup>)  
Suspension ..... 4 springs, 2 drag links  
Skids ..... DUO SKID®, long-life carbide  
Suction hose diameter ..... 14 in (356 mm)  
Pressure hose diameter ..... 10 in (254 mm)  
Linear actuator - pressure bleeder w/gauge  
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  
anti-damage "swing away" relief valve  
Broom ..... 43 in dia. (1092 mm)  
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  
Filter ..... 3 micron in-line  
Temperature shutdown system

### DUST CONTROL SYSTEM

Water spray nozzles for dust suppression  
Pump ..... Electric diaphragm  
Reservoirs ..... Polyethylene 220 gal (1249 L)  
Cabover chassis require additional 110 gal  
(416 L) tank, 330 gal (1249 L) total  
Filter ..... 80 mesh in-line  
Low water shut-off ..... Safety shut-off  
with low water warning light in cab coupled  
with liquid level sensor  
Spray nozzles:  
Around pick-up head ..... 4  
Gutter brooms (each) ..... 2  
Hopper (inside) ..... 1  
Hydrant fill hose w/storage area ..... 20 ft (6 m)

### CONTROLS

#### Inside cab (lighted)

Pick-up head, gutter broom(s), ignition and  
tachometer (auxiliary engine), voltmeter, low  
water warning system (for dust control system),  
all safety lights, hour meter, pressure bleeder,  
auxiliary fuse panel

#### BlueLogic® Display

High resolution, color LCD multi-function  
touchscreen display that provides the operator  
feedback on the status of the sweeper  
and auxiliary engine. The display provides  
information for all safety equipment, as well as  
lifetime and trip hours for sweeper equipment  
such as the gutter brooms, pick-up head,  
pick-up head broom, and blower. The display  
also provides service hours for the auxiliary  
engine and hydraulic system fluids and filters.  
Additionally, the sweeper odometer records  
lifetime and trip curb miles swept.

### BlueLogic® Control System

Multiplexed electrical control system which  
provides intelligent safety features and assists  
in sweeper troubleshooting with on board  
diagnostics (OBD).

Outside cab ..... Dump

### 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 w/overspeed interrupt  
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  
Extra water capacity ..... 330 gal (1249 L) total  
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  
Hose reel, 50 ft (15.24 m) retractable  
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  
Stainless steel options:  
Hopper:  
Hopper 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