



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 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 yd³ (5.6 m³)
Capacity (useable) 6 yd³ (4.6 m³)
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 in² (1.79 m²)
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
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)

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, blower, and water pump;
sweeper odometer (records curb miles swept
and sweeping hours), service reminders,
custom reminders, overspeed warning, low
water audible alarm, 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
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
Spark resistant skids
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