GENERAL SPECIFICATIONS

MODEL HSP® REGENERA TIVE AIR SWEEPER®
FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB 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, scavenge vacuum hose, and in-cab air restriction indicator w/gauge.  
Remote oil filter........Spins on, full flow  
Auxiliary engine fuel tank shared with chassis  
Diesel fuel tank capacity ........ 51 gal (193 L)  
DEF tank ................. Dedicated  
Capacity (useable) ........ 3.8 gal (14.4 L)  
Open crankcase ventilation (OCV) filter  
Pressure bleeder ........Integral for pressure hose diameter  
Suction hose diameter ........ 10 in (254 mm)  
Spray nozzles:  
Low water shut-off ............Safety shut-off  
Filter .......................... 80 mesh in-line  
Pump .......................... Electric diaphragm  
Water spray nozzles for dust suppression  
Reservoir ... 25 gal (94.6 L) w/80 mesh suction strainer, sight/temperature gauge, cooler  
Filter.................................. 3 micron in-line  
Adjustment.......................... Adjustable for down pressure, pattern and wear  
Down pressure ........Automatically adjusts to requirement  
Dust collection system

GUTTER BROOM, TWIN, Patented
Standard equipment includes floodlights and parabolic mirrors  
Drive ..............................................Constant speed non-reversable hydraulic motor  
Adjustment..........................Adjustable for down pressure, pattern and wear  
Down pressure ........Automatically adjusts to requirement  
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), and pick-up head  
Drive .......... Gear driven from auxiliary engine  
Capacity (useable) ........ 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 (833 L), total minimum  
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  
Filter.................................. 3 micron in-line  
Hopper (inside) .................1  
Hopper 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, and in-cab air restriction indicator w/gauge.  

Interior Components
Leaf pressure bleeder control, BlueLogic display, auxiliary fuse panel, illuminated control switches, pick-up head, gutter brooms, auxiliary engine RPM, 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 limp guard - LED  

OPTIONAL EQUIPMENT
AOD water pump w/washdown hose/spray gun  
Abrasive 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  
COMDEX (extra water and tool box) 330 gal (1249 L) total capacity  
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Special options are available for your individual requirements. Contact your local dealer or TYMCO.