





GENERAL SPECIFICATIONS

MODEL DST-6® REGENERATIVE AIR SWEEPER® FINAL TIER 4 AUXILIARY ENGINE

SWEEPER AUXILIARY ENGINE
Engine John Deere 4045 turbo, 4 cyl.
(Final Tier 4)
Displacement
Power 99 HP @ 2200 RPM (74 kW)
Power
Air cleaner Heavy
duty, w/pre-cleaner, scavenge vacuum hose,
and in-cab air restriction indicator w/gauge.
Remote oil filterSpin on, full flow
Diesel auxiliary engine fuel tank shared with
cabover chassis, and independent from
conventional cab chassis fuel tank.
Aux. engine fuel tank capacity 51 gal (193 L)
DEF tankDedicated
Canacity (volumetric) 5.4 gal (20.6.1.)

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

BLOWER, RUBBER LINED

Aluminum álloy, high volume, open face turbine PurposeCreates blast and suction Bearings(2) sealed lifetime lube, anti-friction Bolt-on housingAbrasion resistant, replaceable liner DriveHeavy duty power band

DUST SEPARATOR, HIGH CAPACITY

TypeCyclonic, multipass, centrifugal separation Size20 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

with integral stiffeners Floor angle22° Dump door opening......84 x 44 in (2134 x 1118 mm) Dùmping methodHydraulic with raker bar Hopper deluge system

BROOM ASSIST PICK-UP HEAD (BAH®)

TypeDual chamber with broom assist Function Delivers air blast and suction Reverse pick-up head system

GUTTER BROOM, TWIN, Patented

Standard equipment, includes floodlights and parabolic mirrors DriveVariable speed

non-reversible hydraulic motor

Adjustment......Adjustable for down pressure, pattern and wear

Down pressure Automatically

vertical diggers

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up with 80 mesh suction strainer, sight/ temperature gauge, cooler Filter......3 micron in-line Auxiliary hydraulic system Temperature shutdown system

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression Pump Electric diaphragm Reservoirs Polyethylene 220 gal (833 L), 80 mesh in-line with liquid level sensor Spray nozzles: Gutter brooms (each)......3 Hopper (inside)`.....1

DUSTLESS FILTRATION SYSTEM

An external mounted modular filtration system with automatic BlueLogic® control adjustment Capacity (volumetric)......14 ft³ (0.40 m³) Filters......(4) MERV 16 Rated Particulate removal efficiency ≥ 95% of 0.3 µm Long life filters, not affected by wet sweeping conditions.

Hydrant fill hose w/storage area 20 ft (6 m)

Filters cleaned by intermittent air pulse Air compressorBelt driven, liquid cooled, engine lubricated13.2 CFM

Compression rate (0.37 m³/minute) @1200 RPM Shop air connection

Dust box deluge washout system

High output water system

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. Specific to the DST-6, BlueLogic also monitors and automatically controls the adjustments for the DST system, requiring no operator adjustments.

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, water pump, BAH broom if applicable, and DST filters; 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, DST mode, purge system, variable speed gutter brooms, dust control water system nozzles, safety lights

Exterior Components

Dump switch, BlueLogic multiplex modules

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 Auto Sweep Interrupt (ASI)
Auxiliary hand hose 8 in dia. (203 mm)

Auxiliary hand hose hydraulic boom assist

Camera/monitor system

Gutter broom drop-down Hi/Low pressure washdown system

Hopper drain system

Magnet (various options available)

Pick-up head curtain lifter Pick-up head deluge (BAH®)

Shop air purge, dust control system

Stainless steel options: Hopper & dust box:

Hoper weldment Dump door Inspection doors

Raker plate

High capacity dust separator

Hopper screen Dust box

Blower housing High capacity dust separator

Hopper drain

Dust box

Paint color (other than TYMCO standard white)

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

CHASSIS AVAILABLE

Peterbilt 220 International 4300 Freightliner M2-106