





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

SWEEPER AUXILIARY ENGINE

Engine John Deere 4045 turbo, 4 cyl. (Final Tier 4)
Displacement
Power
Net torque315 lb-ft @ 1600 RPM (427 Nm)
Air cleaner Heavy duty, w/pre-cleaner and
scavenge vacuum hose
Remote ŏil 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
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

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

DUST SEPARATOR, HIGH CAPACITY

DOG! OE! ANAION, IIIGII GALAGII I
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
Abrasian registant hausing w/replaceable weer

Abrasion resistant housing w/replaceable wear resistant liner

HUDDED

HOI I EK	
Capacity (volumetric)	7.3 yd³ (5.6 m³) 6 yd³ (4.6 m³) Welded steel plate
Capacity (useable)	6 yd³ (4.6 m³)
Construction	Welded steel plate
with integral stiffener	'S
Floor angle	22°
	84 x 44 in
(2134 x 1118 mm)	
Dumping method	Hydraulic with raker bar
Dumping height	36 in (914 mm)
Abrasion protection pa	
Hopper deluge system	1

BROOM ASSIST PICK-UP HEAD (BAH®)
TypeDual chamber with broom assist
Function Delivers air blast and suction
Width87 in (2210 mm)
Pick-up head area
Broom 12 x 79 in (305 x 2007 mm)
enclosed in rear of pick-up head
Suspension4 springs 2 drag links
Suction hose diameter14 in (356 mm)
Pressure hose diameter 14 in (356 mm)
Skids DUO SKID®, long-lifè carbidé
Pick-up head deluge
Reverse pick-up head system

GUTTER BROOM, TWIN, Patented

Standard equipment, includes floodlights and parabolic mirrors
DriveVariable speed
non-reversible hydraulic motor
AdjustmentAdjustable for down
pressure, pattern and wear
Down pressure Automatically adjusts to requirement
Flexibility
anti-damage "swing away" relief valve Brooms
vertical diggers
Hydraulic tiltTwin gutter brooms
adjust for curb depth

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up
head
Drive Gear driven from auxiliary engine
Capacity
Reservoir
with 80 mesh suction strainer, sight/
temperature gauge, cooler
Filter 3 micron in-line
Auxiliary hydraulic system
Auxiliary hydraulic system Temperature shutdown system

DUST CONTROL SYSTEM

Water spray pozzles for dust suppression

Pump Electric diaphragm Reservoirs Polyethylene 220 gal (833 L),
total Filter
Low water shut-off
Spray nozzles: Gutter brooms (each)
Hopper (inside) 1 High output water Air purge system
Hydrant fill hose w/storage area20 ft (6 m)

DUSTLESS FILTRATION SYSTEM An external mounted modular filtration system

An external mounted modular illitation system
with automatic BlueLogic® control adjustment
Capacity (volumetric)14 ft ³ (0.40 m ³)
Filters(4) MERV 16 Rated
Particulate removal efficiency ≥ 95% of 0.3 µm
Long life filters, not affected by wet sweeping
conditions.
Filters cleaned by intermittent air pulse
Air compressorBelt driven, liquid cooled,
engine lubricated
Compression rate13.2 CFM
(0.37 m ³ /minute) @1200 RPM
Shop air connection
Dust box deluge washout system
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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, 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 día. (203 mm) Auxiliary hand hose hydraulic boom assist Auxiliary hand hose catch basin cleaning package

Camera/monitor system Gutter broom drop-down Hi/Low pressure washdown system

High output water system

Hopper drain system

Hose reel, 50 ft (15.24 m) retractable

Magnet (various options available)
Pick-up head curtain lifter
Pick-up head deluge (BAH®) Stainless steel options:

Hopper & dust box: Hoper weldment

Dump door Inspection doors Raker plate

High capacity dust separator

Hopper screen Dust box

High capacity dust separator

Höpper 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