







MODEL 500x® HIGH DUMP REGENERATIVE® AIR STREET SWEEPER **DIESEL AUXILIARY ENGINE / DIESEL CABOVER CHASSIS**

SWEEPER AUXILIARY ENGINE
EngineJohn Deere 4045 turbo FT4, 4 cyl.
Displacement
Power 115 hp (86 kW) @ 2200 RPM
Net torque3/3 lb-ft @ 1500 RPM (506 Nm)
Air cleaner Heavy duty, w/pre-cleaner, and
in-cab air restriction indicator w/gauge.
Oil filter
Diesel fuel tank capacity 50 gal (189 L)
DEF tankDedicated
Capacity (volumetric)
Capacity (useable)
Auxiliary engine protection system (
Fuel/water separator with WIF sensor
Fuel filters 10 µm primary, 2 µm secondary
Open crankcase ventilation (OCV) filter
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BLOWER, RUBBER COATED
Aluminum állav high valuma, anan faca

Aluminum alloy, high volume, open face

turbine Drive Fixed displacement, heavy duty, bent axis hydraulic motor

DUST SEPARATOR, RUBBER LINED

DOGI GEL ARALGIN, RODDER EINED
TypeCyclonic, multipass, centrifugal separation
centrifugal separation
Size
Location
Particulate removal achieved through dual 48 in
(122 cm) skimmer slots into hopper
Abrasion resistant housing w/replaceable liner
Self-opening, self-emptying when hopper tilts
1 5, 1 79

HOPPER, STAINLESS STEEL
HOPPER, STAINLESS STEEL Volumetric capacity
RROOM ASSIST PICK-IIP HEAD (RAH®)

DRUUMI ASSISI	FIGHTOF HEAD (DART)
TypeDual	l chamber with broom assist 87 in (221 cm)
Width	87 in (221 cm)
Pick-up head area	3567 in²`(2.3 m²)
Broom	3567 in² (2.3 m²) 12 x 79 in (30.5 x 200.5 cm)
enclosed in rear of	pick-up hèad
Suspension	(4) springs, (2) drag links

Suction hose	12 in diameter (30.5 cm)
Pressure hose	14 in diameter (35.5 cm)
Skids	DUO SKID®, long-life carbidé
Linear actuator -	pressure bleeder w/gauge
Integral for leaf	f/light material pickup
Reverse pick-up	head system .

GUTTER BROOMS, TWIN, Patented

Drivevariable	speed
non-reversible hydraulic motor	
AdjustmentAdjustable for	· down
pressure, pattern and wear	
Down pressure Auto	omatic
Flexibility	ntegral
anti-dámage "swing away" relief valve	J
anti-damage "swing away" relief valve Brooms	l wire,
vertical diggers	
Hydraulic tiltAdjust for curb	depth
Floodlights(2	
Parabolic mirrors(2) 10.5 in (26.67 cn	

HYDRAULIC SYSTEM

Drive Direct drive Blower pumpHeavy duty variable
Blower pumpHeavy duty variable
displacement piston pump, hydróstatically
drives blower
Blower pump flow rate 26 GPM (100 LPM)
Sweeper pump Variable displacement
piston pump, operates gutter brooms, pick-up
head, stabilizers, hopper lift, hopper dump, and
hopper door.
Sweeper pump flow rate11 GPM (42 LPM)
BAH numn Gear numn
BAH pump
Pecenyoir 3/ gal (120 I)
Poturn filtor
Return filter 3 µm, spin-on, in-line return
Chargo loop filter
Charge loop filter
Vent filter
Hydraulic oil Extended life 10vv 15O 46
CoolerAir to oil
integral with auxiliary engine heat exchanger
Hydraulic level/temperature shutdown system
w/ temperature gauge in cab

Hydraulic oil filter restriction indicator in cab Hydraulic oil sight/temperature gauge Auxiliary hydraulic 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 and includes hour meters (trip and total) for the auxiliary engine, gutter brooms, pick-up head, blower, water pump, and BAH broom; dump cycle counter, sweeper odometer (records curb miles swept and sweeping hours), service reminders, custom reminders, overspeed, warning, low 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, blower RPM, pressure bleeder, dump cycle, variable speed gutter brooms, dust control water system nozzles, safety lights. **Exterior Components**

BlueLogic Control Modules (BCMs)

STORAGE COMPARTMENT

Location Rear left, beneath auxiliary engine

SAFETY/WARNING DEVICES

BlueLogic Control System utilizes solid-state proximity switches to help provide several safety systems: Right and left stabilizers automatically deploy before raising the hopper and retract after lowering the hopper, stabilizers down warning system, transmission interlock when stabilizers are down, blower actuation interlock and minimum dump interlock. Other interlock, and minimum dump interlock. Other devices include inclinometer, alternating LED rear flashers, front mounted SAE Class 1/ California Title 13 amber beacon light (LED) w/ limb guard, rear view camera system, back-up alarm, scissor lift safety props, dump door/tilt cylinder safety props, and shop prop.

OPTIONAL EQUIPMENT AOD water pump w/washdown hose/spray gun Abrasion protection package Additional camera views - pick-up head, left gutter broom, right gutter broom Auto Sweep Interrupt (ASI) Auxiliary hand hose, 8 in (20 cm) diameter Gutter broom, drop down High output water system High output water system
High own washdown system
Hopper load indicator alarms w/gauge Hopper vibrator - electric Low emissions package (required for South Coast AQMD Rule 1186) Magnet: Light, standard, or heavy duty Pick-up head front curtain lifter Shop air purge, dust control system
Sweeper deluge system, includes hopper and
pick-up head deluge w/6 in (15 cm) cleanout

Screen vibrator - pneumatic Paint color (other than TYMCO standard white)

Special options are available. Contact your local

dealer or TYMCO. **CHASSIS AVAILABLE**

Peterbilt 220