



GENERAL SPECIFICATIONS



MODEL 500x® HIGH DUMP REGENERATIVE® AIR STREET SWEEPER DIESEL AUXILIARY ENGINE / DIESEL CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE EngineJohn Deere 4045 turbo FT4, 4 cyl. Displacement

BLOWER, RUBBER LINED Aluminum alloy, high volume, open face turbine Bearings(2) sealed lifetime lube, anti-friction Housing Isolation mounted, steel

DUST SEPARATOR TypeCyclonic, multipass, centrifugal separation Size......28 x 48 in (711 x 1219 mm) skimmer slots into hopper Abrasion resistant housing w/replaceable liner

Self-opening, self-emptying when hopper tilts **HOPPER, STAINLESS STEEL** Hopper drain system

BROOM ASSIST PICK-UP HEAD (BAH®)

Reverse pick-up head system

GUTTER BROOMS, TWIN, Patented Includes LED floodlight and parabolic mirror

Direct drive

HYDRAULIC SYSTEM

depth

Blower pumpHeavy duty variable displacement piston pump, hydrostatically
drives blower Sweeper pump
head, stabilizers, hopper lift, hopper dump, and hopper door. Blower pump flow rate 26 GPM (100 LPM)
Sweeper pump flow rate 11 GPM (42 LPM) RAH pump Gear pump
operates Broom Assist Head broom motor BAH pump flow rate
Return filter
Charge loop filter
integral with auxiliary engine heat exchanger Hydraulic level/temperature shutdown system Hydraulic oil filter restriction indicator - in cab
Hydraulic oil sight/temperature gauge

DUST CONTROL SYSTEM Water spray nozzles for dust suppression Pump

Auxiliary hydraulic 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.

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, and BAH broom; dump cycle counter, 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

Leaf pressure bleeder control, BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, blower RPM, dump cycle, variable speed gutter brooms, dust control water system nozzles, safety lights.

Exterior Components

BlueLogic Control Modules (PCMs)

BlueLogic Control Modules (BCMs)

STORAGE COMPARTMENT

SAFETY/WARNING DEVICES

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 devices include 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. 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 (203 mm) diameter Gutter broom, drop down

High output water system Hi/Low pressure washdown system Hopper load indicator alarms w/gauge Hopper vibrator - electric

Linear actuator - pressure bleeder w/gauge 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 (152 mm) cleanout bort

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

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

CHASSIS AVAILABLE

International MV607 Freightliner M2-106