





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

SWEEPER AUXILIARY ENGINE Engine ......John Deere 4045 turbo FT4, 4 cyl. Displacement......275 in<sup>3</sup> (4.5 L) Power ......115 hp (86 kW) @ 2200 RPM Net torque.....373 lb-ft @ 1500 RPM (506 Nm) Air cleaner ......Heavy duty, w/pre-cleaner, and

Fuel/water separator with WIF sensor

Fuel filters ...... 10  $\mu m$  primary, 2  $\mu m$  secondary Open crankcase ventilation (OCV) filter

#### **BLOWER**, RUBBER COATED

Aluminum álloy, high volume, open face turbine

### **DUST SEPARATOR, RUBBER LINED**

Type.....Cyclonic, multipass, centrifugal separation

Self-opening, self-emptying when hopper tilts

#### **HOPPER**, STAINLESS STEEL

- Chute characteristic characteristic

#### Hopper drain system

#### **BROOM ASSIST PICK-UP HEAD (BAH®)**

Type.....Dual chamber with broom assist 

South Coast AQMD Rule 1186 PM<sub>10</sub> Certified 1-800-258-9626 www.tymco.com

#### **GUTTER BROOMS, TWIN, Patented**

- Drive Variable speed non-reversible hydraulic motor Adjustment......Adjustable for down pressure, pattern and wear
- Down pressure ..... Automatic
- Floodlights ......(2) LED Parabolic mirrors .....(2) 10.5 in (26.67 cm) dia.

### **HYDRAULIC SYSTEM**

- Drive Direct drive Blower pump......Heavy duty variable displacement piston pump, hydrostatically 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 rate	11 GPM (42 LPM)
BAH pump	Gèar pump
BAH pump BAH pump flow rate	8 GPM (30 LPM)
Reservoir	
Reium Illier	
spin-on, in-line return	- 1 ,
Charge loop filter	10 um

Charge loop liller	ΙΟ μΠΙ
Vent filter	10 µm spin-on
Hydraulic oil Exter	nded life 10W ISO 46
Cooler	Air to oil
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integral with auxiliary engine heat exchanger Hydraulic level/temperature shutdown system w/ temperature gauge in cab

Hydraulic oil filter restriction indicator in cab Hýdraulic oil sight/temperature gauge Auxiliary hydraulic system

#### **DUST CONTROL SYSTEM**

Water spray nozzles for dust suppression Spray nozzles: Pick-up head......4

Gutter	brooms	(each)				2
Hoppe	r	····· /				. 1
-Ivdraht i	fill hose	w/storade	e area	20	ft (6	m)

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### **CONTROL SYSTEM**

BlueLogic<sup>®</sup> 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 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

Pressure bleeder control, BlueLogic display, 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 (BCMs)

#### STORAGE COMPARTMENT

Location ......Rear left, beneath auxiliary engine (46 x 46 x 76 cm)

**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 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 Hi/Low 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 (15 cm) cleanout
- port Screen vibrator - pneumatic Paint color (other than TYMCO standard white)

Special options are available. Contact your local dealer or TYMCO.

# CHASSIS AVAILABLE International MV607

Freightliner M2-106