





# **MODEL 500x® HIGH DUMP REGENERATIVE® AIR STREET SWEEPER**

**CNG AUXILIARY ENGINE / CNG CONVENTIONAL CAB CHASSIS** 

<b>SWEEPER</b>	<b>AUXILIARY</b>	<b>ENGINE</b>
E-a-dia-a		1 \ /

Air cleaner ...... Heavy duty, w/pre-cleaner, and in-cab air restriction indicator w/gauge. Oil filter ........Remote mount, spin on, full flow Auxiliary engine fuel rack shared with chassis CNG fuel rack capacity ......60 DGE (227 DLE) Auxiliary engine shutdown system Remote engine oil cooler. Remoté engine oil cooler

**BLOWER**, RUBBER LINED

Aluminum álloy, high volume, open face turbine Bearings ... (2) sealed lifetime lube, anti-friction Housing ...... Isolation mounted, steel 

#### **DUST SEPARATOR**

ype ......Cyclonic, multipass, centrifugal separation Size......28 x 48 in (711 x 1219 mm) Location ...... Inside hopper Particulate removal achieved through dual skimmer slots into hopper Housing ... Abrasion resistant, replaceable liner Self-opening, self-emptying when hopper tilts

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

TypeDuar o	chamber with broom assist
Width	87 in (2210 mm)
Pick-up head area	3567 in² (2.3 m²)
Broom 1	2 x 79 in (305 x 2007 mm)
enclosed in rear of a	oick-up head
Suspension	4 springs 2 drag links
Suction hose	12 in diameter (305 mm)
Pressure hose	14 in diameter (356 mm)
Skids DU	14 in diameter (356 mm) JO SKID®, long-life carbide
	. 0

www.tymco.com

Pressure bleeder ......Integral for leaf/light material pick-up. Reverse pick-up head system

GUTTER BROOMS, TWIN, Patented

Includes LED floodlights and parabolic mirrors ......Variable speed non-reversible hydraulic motor Adjustment......Adjustable for down pressure, pattern and wear

depth

#### **HYDRAULIC SYSTEM**

Drive Direct drive Blower pump Heavy duty variable
displacement piston pump, hydrostatically drives blower
Sweeper pump Variable displacement
piston pump, operates gutter brooms, pick-up 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)
BAH pump
operates Broom Assist Head broom motor BAH pump flow rate
Reservoir 34 gal (129 L)
Return filter 3 micron, spin-on, in-line return
Charge loop filter
Hydraulic oil filter restriction indicator - in cab Hydraulic oil sight/temperature gauge Auxiliary hydraulic system

#### **DUST CONTROL SYSTEM**

Water spray nozzles for dust suppression Pump Electric diaphragm Reservoirs Polyethylene, 250 gallons (946 L) Filter
Pick-up head
Spray nozzles: Pick-up head
Hoppor 1
Hopper1 Hydrant fill hose w/storage area 20 ft (6 m)
nyurani iiii nose w/storage area 20 ii (6 iii)

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

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
Bluel oric Control Modules (BCMs)

BlueLogic Control Modules (BCMs)

#### STORAGE COMPARTMENT

(457 x 457 x 762 mm)

#### **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 and retract after lowering the hopper, stabilizers are retracted to the result of the 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.

### **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

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 port

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

Freightliner M2-112 CNG