





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

SWEEPER AUXILIARY ENGINE Engine
BLOWER, RUBBER COATED

Aluminum	álloy, high volume, oper	ı fac
turbine		
Regringe	(2) spaled lifetime lube	an

DUST SEPARATOR, RUBBER LINED

TypeCyclonic, multipass, centrifugal separation (122 cm) skimmer slots into hopper Housing ...Abrasion resistant, replaceable liner Self-opening, self-emptying when hopper tilts

HOPPER, STAINLESS STEEL

Hopper drain system

BROOM ASSIST PICK-UP HEAD (BAH®)
TypeDual chamber with broom assist
Width
Pick-up head area 3567 in ² (2.3 m ²)
Width
enclosed in rear of pick-up head
Suspension(4) springs, (2) drag links Suction hose
Suction hose
Pressure hose 14 in diameter (35.5 cm)
SkidsDUO SKID®, long-life carbide Pressure bleederCable operated
Pressure bleeder Cable operated
Reverse pick-up head system .

GUTTER	BROOMS	, TWIN, P	atented . Variable speed
Drive		, , , , , , , , , , , , , , , , , , ,	. Variable speed

non-reversible hydraulic motor
Adjustment Adjustable for down
pressure, pattern and wear
Down pressure Automatic
FlexibilityIntegral
anti-damage "swing away" relief valve Brooms43 in dia. (109 cm) steel wire,
Brooms43 in dia. (109 cm) steel wire,
vertical diggers
vertical diggers Hydraulic tiltAdjust for curb depth
Floodlights(2) LED
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Parabolic mirrors(2) 10.5 in (26.67 cm) dia.

HYDRAULIC SYSTEM

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Drive Direct drive
Blower pumpHeavy duty variable displacement piston pump, hydrostatically
displacement niston numb 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 rate11 GPM (42 LPM)
DALL number
BAH pump
BAH pump flow rate 8 GPM (30 LPM)
Reservoir
Return filter
spin-on, in-line return
Charge loop filter
Vent filter
Vent filter
Air to ail

Cooler Air to oil 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

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression PumpElectric diaphragm ReservoirsPolyethylene, 250 gallons (946 L) Filter80 mesh stainless steel, in-line Low water shut-offSafety shut-off with audible and visual indicator in cab
Spray nozzles:
Pick-up head4
Gutter brooms (each)2
Hopper1
Hydrant fill hose w/storage area20 ft (6 m)

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 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 water audible alarm, dust control system winterization guide, and OBD.

Interior Components

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 (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 devices include inclinometer, alternating LED 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 Auto Sweep Assist (ASA) Auxiliary hand hose, 8 in (20 cm) diameter Camerimonitor systems: Additional camera views:
Pick-up head view

Gutter broom view - left and/or right CurbView camera system Gutter broom, drop dówn

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 (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

Freightliner M2-112 CNG