





GENERAL SPECIFICATIONS

MODEL 500x® REGENERATIVE AIR SWEEPER® CNG AUXILIARY ENGINE/CNG CHASSIS

SWEEPER AUXILIARY ENGINE
Engine KEM/GM Vortec 5700 CNG
Displacement350 in ³ (5.7 L)
Power136 HP (101 kW)@ 2650 RPM
Net torque 284 lb-ft (385 Nm)@ 2100 RPM
Air cleanerHeavy duty, w/pre-cleaner
Oil filterRemote mount, spin on, full flow
Auxiliary engine fuel rack shared with chassis
CNG fuel rack capacity60 DGE (227 DLE)
Auxiliary engine shutdown system `
Auxiliary engine shutdown system Remote engine oil cooler

BLOWER, RUBBER LINED	
Aluminum álloy, high volume, open face turbing Purpose	е
Bearings (2) sealed lifetime lube, anti-friction	י ר
Housing Isolation mounted	Ė
with abrasion resistant, replaceable liner	
Housing sealHeavy rubber section non-wiping, spring actuated Tilt-N-Seal® design	,
Drive Fixed displacement	n
heavy duty, hydraulic motor	,
ricavy daty, riyaradilo rilotor	

ς,
1)
r
al
r

HOPPER, STAINLESS STEEL
Volumetric capacity
Construction
Floor dump angle
Floor dump angle
Dump door
stainless steel lined
Chute reach
Dumping directionTwo stage scissor lift, dual hydraulic cylinders w/integral holding valves
Lift capacity
Dump height
from bottom of chute to ground Maximum 132 in (11 ft) (3353 mm)
Maximum
from bottom of chute to ground Overall
Dump tilt slope
screen w/access for cleaning top side
Hopper drain system

leaf/light material pick-up. Reverse pick-up head system
GUTTER BROOMS, TWIN, Patented Standard equipment, includes floodlights and parabolic mirrors Drive Variable speed non-reversible hydraulic motor Adjustment Adjustable for down pressure, pattern and wear Down pressure Automatically adjusts to requirement Flexibility All directions, integral anti-damage "swing away" relief valve Brooms 43 in dia. (1.1 m) steel wire, vertical diggers Hydraulic tilt Twin gutter brooms adjust for curb depth

HYDRAULIC SYSTEM

Proceure blooder

Drive
Sweeper pump Variable displacement piston pump, operates gutter brooms, pick-up head, stabilizers, hopper lift, hopper dump, and hopper door.
Blower pump flow
spin-on, in-line return Charge loop filter

DUST CONTROL SYSTEM

DUST CONTROL SYSTEM
Water spray nozzles for dust suppression Pump Electric diaphragm
Pump Electric diaphragm
Reservoirs Polyethylene, 250 gallons (946 L) Filter
Filter80 mesh stainless steel, in-line
Low water shut-off
with low water warning light in cab
Dick-up head
Spray nozzles: Pick-up head
Hopper
Hopper1 Hydrant fill hose w/storage area 20 ft (6 m)
,

CONTROLS

Inside cab (lighted)

Pick-up head, left and right gutter brooms, left and right gutter broom tilt, ignition, blower on/off (variable), dust control system, all safety lights, hopper dump/tilt, pressure bleeder, auxiliary fuse panel

Integral for BlueLogic® Display

High resolution, color LCD multi-function touchscreen display that provides the operator feedback on the status of the sweeper and auxiliary engine. The display provides information for all safety equipment, as well as lifetime and trip hours for sweeper equipment such as the gutter brooms, pick-up head, pick-up head broom, and blower. The display also provides service hours for the auxiliary engine and hydraulic system fluids and filters. Additionally, the sweeper odometer records lifetime and trip curb miles swept.

BlueLogic® Control System

Multiplexed electrical control system which

Multiplexed electrical control system which provides intelligent safety features and assists in sweeper troubleshooting with on board diagnostics (OBD). Specific to the Model 500x, BlueLogic pauses the dust control system when the blower is turned off, maintains blower at constant speed and monitors the hydraulic level/temperature shutdown system. BlueLogic also provides several safety interlocks on Model 500x, i.e. disabling the transmission if stabilizers are down and disabling blower when hopper is raised/hopper door is open.

STORAGE COMPARTMENT

SAFETY/WARNING DEVICES

Solid state proximity switches, right and left side stabilizers (automatically engage when lifting hopper), blower actuation interlock, minimum dump interlock, stabilizer down warning system, alternating LED rear flashers, front mounted SAE Class 1/California Title 13 amber beacon light with limb guard - LED, back-up alarm, scissor lift safety props, shop prop, and transmission interlock when stabilizers down.

OPTIONAL EQUIPMENT

AOD water pump w/washdown hose/spray gun Abrasion protection package
Air purge, water system
Auto sweep interrupt w/overspeed interrupt
Auxiliary hand hose, 8 in (203 mm) diameter
Camera/monitor system
Engine block heater
Gutter broom, drop down
High output water system
Hopper load indicator alarms
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
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