





GENERAL SPECIFICATIONS

MODEL 500x® REGENERATIVE AIR SWEEPER®

CNG AUXILIARY ENGINE/CNG CHASSIS

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

BLOWER, RUBBER LINED

DUST SEPARATOR

TypeCyclonic, 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

UADDED STAINLESS STEEL

HOPPER, STAINLESS STEEL
Volumetric capacity
Useable capacity 4.0 yd3 (3.06 m3)
Construction
stainless steel plate w/integral stiffeners
stainless steel plate w/integral stiffeners Floor dump angle
(1727 x 1449 mm)
Dump door Self locking
Dump door
stainless steel lined
Chute reach 22 in (56 cm) w/o side shift
Dumping directionRight side Lifting methodTwo stage scissor lift, dua hydraulic cylinders w/integral holding valves
Lifting methodTwo stage scissor lift, dua
nydraulic cylinders w/integral holding valves
Lift capacity
Minimum 24 in (610 mm)
from bottom of chute to ground
from bottom of chute to ground Maximum
from bottom of chute to ground ()
from bottom of chute to ground Overall 262 in (21 ft 8 in) (6655 mm)
Dump tilt slope
Hopper screen
screen w/access for cleaning top side Hopper drain system
Hopper diam system

BROOM ASSIST PICK-UP HEAD (BAH®)
TypeDual chamber with broom assist
Function Delivers air blast and suction
Width
Pick-up head area 3567 in ² (2.3 m ²)
Pick-up head area 3567 in² (2.3 m²) Broom 12 x 79 in (305 x 2007 mm)
enclosed in rear of pick-up head
Suspension4 springs 2 drag links
Suction hose12 in diameter (305 mm)
Pressure hose14 in diameter (356 mm)
Skids DUO SKID®, long-life carbidé
Pressure bleeder Integral for
leaf/light material pick-up.

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GUTTER BROOMS. DUAL. Patented

Standard equipment, includes floodlights and parabolic mirrors Variable speed Adjustment......Adjustable for down pressure, pattern and wear Down pressure Automatically adjusts to requirement vertical diggers Dual gutter brooms lydraulic tilt adjust for curb depth

HYDRAULIC SYSTEM

drives blower Sweeper pumpPressure compensated piston pump, operates gutter brooms, pick-up head, stabilizers, hopper lift, hopper dump, and hopper door. Blower pump flow45 GPM (170 LPM) Cooler......Air to oil
Hydraulic level/temperature shutdown system
Hydraulic oil filter restriction indicator Hydraulic oil sight/temperature gauge

DUST CONTROL SYSTEM

Auxiliary hydraulic system

Water spray nozzles for dust suppression Pump Electric diaphragm ReservoirPolyethylene 250 gallon (946 L) Filter......80 mesh stainless steel, in-liné Low water shut-offSafety shut-off with low water warning light in cab Spray nozzles: Pick-up head.....4 Gutter brooms (each).....2 Hopper......1 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

fuse panel
el 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 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 provides intelligent safety features and assists 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 iš open.

STORAGE COMPARTMENT

Location..... Rear left, beneath auxiliary engine

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 Linear actualdy, pressure breeder wyaduge
Low emissions package (required for South
Coast AQMD Rule 1186)
Magnet, light, standard, or heavy duty
Pick-up head front curtain lifter
Reverse pick-up head system
Sweeper deluge system includes hopper a 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 lócal dealer or TYMCO

CHASSIS AVAILABLE

Freightliner M2-112