**MODEL 500x® REGENERATIVE AIR SWEEPER®**

**FINAL TIER 4 AUXILIARY ENGINE/CABOVER CHASSIS**

**SWEeper AuxiliARy ENGINE**
- Engine: John Deere, 4045 turbo, 4 cyl. (Final Tier 4)
- Displacement: 275 in³ (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 in-cab air restriction indicator w/gauge.
- Oil filter: Spin on, full flow
- Auxiliary engine fuel tank shared with chassis
- Diesel fuel tank capacity: 50 gal (189 L)
- DEF tank: Dedicated
- Capacity (volumetric): 5.4 gal (20.6 L)
- Capacity (useable): 3.8 gal (14.4 L)
- Auxiliary engine protection system
- Fuel/water separator/separator fuel filter
- Open crankcase ventilation (OVC) filter

**BLOWER, RUBBER LINED**
- Aluminum alloy, high volume, open face turbine
- Purpose: Creates blast and suction
- Bearings: (2) sealed lifetime, anti-friction
- Housing: Isolation mounted with abrasion resistant, replaceable liner
- Housing seal: Heavy rubber section, non-wiping, spring actuated Tilt-N-Seal design
- Drive: Fixed displacement, heavy duty, bent axis hydraulic motor

**Dust SeparArAtion**
- Type: Cyclonic, multi-pass, centrifugal separation
- Size: 28 x 48 in (711 x 1219 mm)
- Location: Inside hopper
- Particulate removal achieved through dual skimmer slots into hopper
- Abrasion resistant housing w/replaceable liner
- Self-opening, self-emptying when hopper tils

**hopper, StAniSS Steel**
- Volumetric capacity: 5.7 yd³ (4.3 m³)
- Useable capacity: 4.0 yd³ (3.06 m³)
- Construction: Welded non-magnetic stainless steel plate w/integral stiffeners
- Floor dump method: Two stage scissor lift, dual hydraulic cylinders w/integral holding valves
- Lift capacity: 10,000 lbs (4536 kg)
- Dump height: Variable
- Minimum from bottom of chute to ground: 24 in (610 mm)
- Maximum from bottom of chute to ground: 132 in (3353 mm)
- Dump tilt slope: 50°
- Hopper screen: 2 piece stainless steel screen w/access for cleaning top side

**BroOm AssIst P UCk-Up hAde (BAH®)**
- Type: Dual chamber with broom assist function
- Delivery air blast and suction
- Width: 87 in (2210 mm)
- Pick-up head area: 3567 in² (2.3 m²)
- Broom: 12 x 79 in (305 x 2007 mm)

**hYDRAULIC SyStEm**
- Drive: Direct drive
- Blower pump: Heavy duty variable displacement piston pump, hydrostatically driven blower
- Sweeper pump: Variable displacement piston pump, operates gutter brooms, pickup head, headers, hopper, hopper and hopper door.
- Blower pump flow: 26 GPM (100 LPM)
- Sweeper pump flow: 11 GPM (42 LPM)
- BAH pump: Gear pump, operates Broom Assist head motor
- BAH pump flow: 8 GPM (30 LPM)
- Return filter: 3 microns, spin-on, in-line return
- Charge loop filter: 10 micron
- Oil filtration: 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. (1.1 m) steel wire, vertical diggers
- Hydraulic tilt: Twin gutter brooms adjust for curb depth

**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 retracted after lowering the hopper, 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, back-up alarm, scissor lift safety props, dump door/lift cylinder safety props, and shop prop.

**CONTROL SYSTEM**
- BlueLogic® Control System
- Multiple electrical system includes hardware and Tymco designed software that integrates the 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.

**OPTIONAL EQUIPMENT**
- AOD water pump w/washdown hose/spray gun
- Aeration protection package
- Auto Sweep Interrupt (ASI)
- Auxiliary hand hose, 8 in (203 mm) diameter
- Camera/monitor system
- Gutter block, drop down
- High output water system
- Hi/Low pressure washdown system
- Hopper load indicator alarms
- Hopper vibrator - electric
- 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)

**StORAGE COMPARTMENT**
- Location: Rear left, beneath auxiliary engine

**GENERAL SPECIFICATIONS**

**BLUELOGIC Display**
- Pedestal mounted touchscreen display provides sweeper and auxiliary engine data to the operator and includes hours meter (trip and total) for the auxiliary engine, gutter brooms, pick-up head, blower, water pump, and BAH broom if applicable; 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.

**Exterior Components**
- BlueLogic display, auxiliary fuse panel, illuminated control switches, pick-up head, gutter brooms, blower RPM, leaf pressure blower, dump cycle, variable speed gutter brooms, dust control system nozzles, safety lights.

**BLUELOGIC® Control System**
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**CHASSIS AVAILABLE**
- Peterbilt 220