



**600<sup>®</sup>**  
AIR SWEEPER

**GENERAL SPECIFICATIONS**



**MODEL 600<sup>®</sup> REGENERATIVE AIR SWEEPER<sup>®</sup>**  
**FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS**

**SWEEPER AUXILIARY ENGINE**

Engine ..... John Deere 4045 turbo, 4 cyl.  
(Final Tier 4)  
Displacement ..... 275 in<sup>3</sup> (4.5 L)  
Power ..... 99 HP @ 2200 RPM (74 kW)  
Net torque ..... 315 lb-ft @ 1600 RPM (427 Nm)  
Air cleaner ..... Heavy duty, w/pre-cleaner and  
scavenge vacuum hose  
Remote oil filter ..... Spin on, full flow  
Auxiliary engine fuel tank shared with chassis  
Diesel fuel tank capacity ..... 51 gal (193 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 and separate fuel filter  
Open crankcase ventilation (OCV) filter

**BLOWER, RUBBER LINED**

Aluminum alloy, high volume, open face turbine  
Purpose ..... Creates blast and suction  
Bearings ....(2) sealed lifetime lube, anti-friction  
Bolt-on housing ..... Abrasion resistant,  
replaceable liner  
Drive ..... Heavy duty power band

**DUST SEPARATOR**

Type ..... Cyclonic, multipass,  
centrifugal separation  
Size ..... 20 x 61 in  
cylindrical area (508 x 1549 mm)  
Located adjacent to blower within hopper  
Particulate removal achieved through 61 in  
(1549 mm) skimmer slot into skimmer hood  
Hinged inspection door opened from hopper  
exterior  
Abrasion resistant housing w/replaceable wear  
resistant liner

**HOPPER**

Capacity (volumetric) ..... 7.3 yd<sup>3</sup> (5.6 m<sup>3</sup>)  
Capacity (useable) ..... 6 yd<sup>3</sup> (4.6 m<sup>3</sup>)  
Construction ..... Welded steel plate  
with integral stiffeners  
Floor angle ..... 22°  
Dump door opening ..... 84 x 44 in  
(2134 x 1118 mm)  
Dumping method ..... Hydraulic with raker bar  
Dumping height ..... 36 in (914 mm)

**PICK-UP HEAD**

Type ..... Dual chamber  
Function ..... Delivers air blast and suction  
Width (inside dimension) ..... 87 in (2210 mm)  
Std. pick-up head area ..... 2610 in<sup>2</sup> (1.68 m<sup>2</sup>)  
BAH<sup>®</sup> option area ..... 3567 in<sup>2</sup> (2.3 m<sup>2</sup>)  
Suspension ..... 4 springs, 2 drag links  
Skids ..... DUO SKID<sup>®</sup>, long-life carbide  
Suction hose diameter ..... 14 in (356 mm)  
Pressure hose diameter ..... 14 in (356 mm)  
Pressure bleeder ..... Integral for  
leaf/light material pickup  
Reverse pick-up head system

**GUTTER BROOM, TWIN, Patented**

Standard equipment includes floodlights and  
parabolic mirrors  
Drive ..... Constant 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  
Broom ..... 43 in dia. (1092 mm)  
steel wire, vertical digger

**HYDRAULIC SYSTEM**

Operates gutter broom(s), dump and pick-up  
head  
Drive ..... Gear driven from auxiliary engine  
Capacity ..... 8 GPM (30.3 LPM)  
Reservoir ... 25 gal (94.6 L) w/80 mesh suction  
strainer, sight/temperature gauge, cooler  
Filter ..... 3 micron in-line  
Temperature shutdown system

**DUST CONTROL SYSTEM**

Water spray nozzles for dust suppression  
Pump ..... Electric diaphragm  
Reservoirs ..... Polyethylene 220 gal (1249 L),  
total minimum  
Filter ..... 80 mesh in-line  
Low water shut-off ..... Safety shut-off  
with low water warning light in cab coupled  
with liquid level sensor  
Spray nozzles:  
Around pick-up head ..... 4  
Gutter brooms (each) ..... 2  
Hopper (inside) ..... 1  
Hydrant fill hose w/storage area ..... 20 ft (6 m)

**CONTROL SYSTEM**

**BlueLogic<sup>®</sup> 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 to  
the operator and includes hourmeters (trip and  
total) for the auxiliary engine, gutter brooms,  
pick-up head, blower, water pump, and BAH  
broom if applicable; sweeper odometer (records  
curb miles swept and sweeping hours), service  
reminders, custom reminders, overspeed  
warning, low water audible alarm, and OBD.

**Interior Components**

Leaf pressure bleeder control, BlueLogic  
display, auxiliary fuse panel, illuminated control  
switches: pick-up head, gutter brooms, auxiliary

engine RPM, dust control water system nozzles,  
safety lights.

**Exterior Components**

Dump switch, BlueLogic multiplex module

**SAFETY/WARNING DEVICES**

Alternating LED rear flashers (2)  
Back-up alarm  
SAE Class 1/California Title 13 amber beacon  
light with limb guard - LED

**OPTIONAL EQUIPMENT**

AOD water pump w/washdown hose/spray gun  
Abrasion protection package  
Auto Sweep Interrupt (ASI)  
Auxiliary hand hose 8 in dia. (203 mm)  
Auxiliary hand hose hydraulic boom assist  
Auxiliary hand hose catch basin cleaning  
package  
Auxiliary hydraulic system  
Broom Assist Pick-up Head (BAH<sup>®</sup>)  
Camera/monitor system  
COMDEX (extra water and tool box) 330 gal  
(1249 L) total capacity  
Gutter broom tilt adjuster(s) (left, right, or twin)  
Gutter broom variable speed  
Gutter broom drop-down  
Hi/Low pressure washdown system  
High output water system  
Hopper deluge system  
Hopper drain system  
Hose reel, 50 ft (15.24 m) retractable  
Lateral airflow nozzle  
Linear actuator - pressure bleeder w/gauge  
Liquid recovery system  
Low emissions package (required for South  
Coast AQMD Rule 1186)  
Magnet, light, standard, or heavy duty  
Pick-up head curtain lifter  
Pick-up head deluge  
Stainless steel options:  
Hopper:  
Hopper weldment  
Dump door  
Inspection doors  
Raker plate  
High capacity dust separator  
Hopper screen  
Blower housing  
High capacity dust separator  
Hopper drain  
Paint color (other than TYMCO standard white)

*Special options are available for your individual  
requirements. Contact your local dealer or  
TYMCO.*

**CONVENTIONAL CAB  
CHASSIS AVAILABLE**

International 4300  
Freightliner M2-106