



600[®]
AIR SWEEPER

GENERAL SPECIFICATIONS



MODEL 600[®] REGENERATIVE AIR SWEEPER[®] FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE

Engine	John Deere 4045 turbo, 4 cyl. (Final Tier 4)
Displacement	275 in ³ (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 scavenger vacuum hose
Remote oil filter.....	Spin on, full flow
Auxiliary engine fuel tank shared with chassis engine	
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	
Abrasions resistant housing w/replaceable wear	
resistant liner	

HOPPER

Capacity (volumetric).....	7.3 yd ³ (5.6 m ³)
Capacity (useable).....	6 yd ³ (4.6 m ³)
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 ² (1.68 m ²)
BAH [®] option area.....	3567 in ² (2.3 m ²)
Suspension	4 springs, 2 drag links
Skids	DUO SKID [®] , 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

GUTTER BROOM, DUAL, 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
PumpElectric diaphragm, air diaphragm, or belt driven
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)

CONTROLS

Inside cab (lighted)

Pick-up head, gutter broom(s), ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter, pressure bleeder, auxiliary fuse panel
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 provides intelligent safety features and assists

in sweeper troubleshooting with on board diagnostics (OBD).

Outside cabDump

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 w/overspeed interrupt
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[®])
Camera/monitor system
COMDEX (extra water and tool box) 330 gal (1249 L) - International 4300-DT only
Gutter broom tilt adjuster(s) (right, left or both)
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
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
Reverse pick-up head system
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-DT
International 4300 - Cummins ISB
Freightliner M2-106