



600[®]
AIR SWEEPER

GENERAL SPECIFICATIONS



**MODEL 600[®] REGENERATIVE AIR SWEEPER[®]
CNG AUXILIARY ENGINE/CNG CHASSIS**

SWEEPER AUXILIARY ENGINE

Engine KEM/GM Vortec 5700 CNG
Displacement 350 in³ (5.7 L)
Power 124 HP @ 2400 RPM (92 kW)
Net torque 284 lb-ft @ 2100 RPM (385 Nm)
Air cleaner Heavy duty, w/pre-cleaner and
scavenge vacuum hose
Oil filter Spin on, full flow
Auxiliary engine fuel rack shared with chassis
CNG fuel rack capacity 60 DGE (227 DLE)
Auxiliary engine shutdown system
Fuel/water separator

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 yd³ (5.6 m³)
Capacity (useable) 6 yd³ (4.6 m³)
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 in² (1.68 m²)
BAH[®] option area 3567 in² (2.3 m²)
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
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 Belt 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

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
Pump Electric diaphragm
Reservoirs Polyethylene 220 gal (833 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[®] 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 hour meters (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[®])
Camera/monitor system
COMDEX (extra water and tool box) 330 gal
(1249 L) total capacity (171" WB Autocar
chassis only)
Gutter broom tilt adjuster(s) (left, right, or twin)
Gutter broom variable speed
Gutter broom drop-down
High output water system
Hopper deluge system
Hopper drain system
Hose reel, 50 ft (15.24 m) retractable
Linear actuator - pressure bleeder w/gauge
(Standard on cabover chassis)
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
Spark resistant skids
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.*

CHASSIS AVAILABLE

Freightliner M2-112
Autocar Xpert
Autocar Xpert - COMDEX