



600[®] CNG

AIR SWEEPER

GENERAL SPECIFICATIONS



MODEL 600[®] REGENERATIVE[®] AIR STREET 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, scavenge vacuum hose, and in-cab air restriction indicator w/gauge.
 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 Steel w/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
 Flow rate 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 audible and visual indicator in cab
 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, dust control system winterization guide, 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
 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
 Shop air purge, dust control system
 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 CNG - 176 in wheelbase
 Autocar Xpert CNG - 157 in wheelbase
 Autocar Xpert CNG - 171 in wheelbase (COMDEX)