



MODEL 600[®] REGENERATIVE[®] AIR STREET SWEEPER

CNG AUXILIARY ENGINE / CNG CHASSIS

SWEEPER AUXILIARY ENGINE

EngineKEM/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 cooler

BLOWER, RUBBER COATED

Aluminum alloy, high volume, open face turbine
 Bearings ...(2) sealed lifetime lube, anti-friction
 Bolt-on housingSteel w/abrasion resistant, replaceable liner
 DriveHeavy duty power band

DUST SEPARATOR, RUBBER LINED, HIGH CAPACITY

TypeCyclonic, multipass, centrifugal separation
 Size20 x 61 in cylindrical area (51 x 155 cm)
 Located adjacent to blower within hopper
 Particulate removal achieved through 61 in (155 cm) skimmer slot into skimmer hood
 Separator 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)
 ConstructionWelded steel plate with integral stiffeners
 Floor angle22°
 Dump door opening84 x 44 in (213 x 112 cm)
 Dump methodHydraulic with raker bar
 Dump directionRear
 Dump height36 in (91.5 cm)
 Insection doors(1) Each side of hopper9.75 x 29 in (25 x 73.5 cm)

PICK-UP HEAD

Type.....Dual chamber
 Width (inside dimension) 87 in (221 cm)
 Std. pick-up head area2610 in² (1.68 m²)
 Suspension 4 springs, 2 drag links
 Skids.....DUO SKID[®], long-life carbide
 Suction hose diameter..... 14 in (35.5 cm)
 Pressure hose diameter14 in (35.5 cm)
 Pressure bleederCable operated
 Reverse pick-up head system

GUTTER BROOM, TWIN, Patented

DriveConstant speed non-reversible hydraulic motor

Adjustment.....Adjustable for down pressure, pattern and wear
 Down pressureAutomatic
 Flexibility.....Integral anti-damage "swing away" relief valve
 Broom43 in dia. (109 cm) steel wire, vertical digger
 Floodlights (2) LED
 Parabolic mirrors(2) 10.5 in (26.67 cm) dia.

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive Belt driven from auxiliary engine
 Flow rate8 GPM (30.3 LPM)
 Reservoir25 gal (94.6 L) w/80 mesh suction strainer, sight/temperature gauge
 Cooler Air to oil integral with auxiliary engine heat exchanger
 Return filter 3 micron in-line
 Vent filter..... 10 micron spin-on
 Hydraulic oil Extended life 10W ISO 46
 Hydraulic temperature shutdown system w/ temperature gauge in cab

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
 Pump Electric diaphragm
 Reservoirs Polyethylene 220 gal (833 L), total minimum
 Filter80 mesh in-line
 Low water shut-off Safety shut-off with audible and visual indicator in cab
 Spray nozzles:
 Around pick-up head4
 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 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

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 Control Module (BCM)

SAFETY/WARNING DEVICES

Alternating LED rear flashers (2)
 Rear view camera system
 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
 Additional camera views - pick-up head, left gutter broom, right gutter broom
 Auto Sweep Interrupt (ASI)
 Auxiliary hand hose 8 in dia. (20 cm)
 Auxiliary hand hose hydraulic boom assist
 Auxiliary hand hose catch basin cleaning package
 Auxiliary hydraulic system
 Broom Assist Pick-up Head (BAH[®])
 Pick-up head area.....3567 in² (2.3 m²)
 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 (non-magnetic) options:
 Hopper:
 Hopper weldment
 Dump door
 Inspection doors
 Raker plate
 High capacity dust separator
 Hopper screen
 Blower housing
 Hopper drain
 Paint color (other than TYMCO standard white)

Special options are available. 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 WB (COMDEX)