





MODEL 600® REGENERATIVE® AIR STREET SWEEPER CNG AUXILIARY ENGINE / CNG CHASSIS

SWEEPER AUXILIARY ENGINE

Engine KEM/GM Vortec 5700 CNG
Displacement
Power 124 HP@ 2400 RPM (92 kW)
Net torque284 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 capacity60 DGE (227 DLE)
Auxiliary engine shutdown system
Fuel/water separator
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BLOWER, RUBBER LINED

Aluminum álloy, high volu	
Bearings(2) sealed lif	etime lube, anti-friction
Bolt-on housing	Steel w/abrasion
resistant, replaceable I	iner
Drive	leavy duty power band

DUST SEPARATOR. HIGH CAPACITY

DOGI GELAKATOK, IIIGII GALAGII I
TypeCyclonic, multipass
centrifugal separation
Size20 x 61 ir
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
Abracion resistant housing w/replaceable wear

Abrasion resistant housing w/replaceable wear resistant liner

HOPPER

	e)7.3 yd³ (5.6 m³)
Capacity (useable).	6 yd³ (4.6 m³)
Construction	Welded steel plate
with integral stiffen	ers
Floor angle	22°
	84 x 44 in
(2134 x 1118 mm)	
Dump method	Hydraulic with raker bar
Dump height	36 in (914 mm)
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PICK-UP HEAD
TypeDual chamber
Width (inside dimension) 87 in (2210 mm)
Std. pick-up head area2610 in ² (1.68 m ²)
BAH® option area3567 in ² (2.3 m ²)
Suspension 4 springs, 2 drag links
SkidsDUO SKID®, long-life carbide
Suction hose diameter14 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

Includes LED floodlights and parabolic mirrors
DriveConstant speed
non-reversible hydraulic motor
Adjustment Adjustable for
down pressure, pattern and wear
Down pressure Automatic
FlexibilityAll directions integral
anti-damage "swing away" relief valve
Broom43 in dia. (1092 mm)
steel wire, vertical digger

HYDRAULIC SYSTEM

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/temperat	
Filtor	3 micron in-line

Operates gutter broom(s), dump and pick-up

DUST CONTROL SYSTEM

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 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. (203 mm) Auxiliary hand hose hydraulic boom assist Auxiliary hand hose catch basin cleaning

package Auxiliary hydraulic system Broom Assist Pick-up Head (BAH®)

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 ТҮМСО.

CHASSIS AVAILABLE

Freightliner M2-112 CNG - 176 in wheelbase Autocar Xpert CNG - 157 in wheelbase Autocar Xpert CNG - 171 in wheelbase

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FREIGHTLINER M2-112 CNG

AUTOCAR XPERT CNG

AUTOCAR XPERT CNG with COMDEX Extra Water

	CNG		with COMDEX Extra Water
CAB/CHASSIS			
GVWR	33,000 lb (14,969 kg)	33,000 lb (14,969 kg)	33,000 lb (14,969 kg)
Front Axle	12,000 lb (5443 kg) w/12,000 lb (5443 kg) front springs and dust shields	12,000 lb (5443 kg) w/12,500 lb (5700 kg) front flatleaf suspension w/shock absorbers	12,000 lb (5443 kg) w/12,500 lb (5700 kg) fron flatleaf suspension w/shock absorbers
Rear Axle	21,000 lb (9525 kg) w/23,000 lb (10,432 kg) rear variable rate multi-leaf springs w/leaf spring helper	21,000 lb (9525 kg) w/21,000 lb (9525 kg) rear air suspension w/shock absorbers	21,000 lb (9525 kg) w/21,000 lb (9525 kg) rear air suspension w/shock absorbers
Gear ratio	6.14 (single speed)	6.14 (single speed)	6.14 (single speed)
Frame	120,000 PSI (3447.38 bar)	120,000 PSI (8273.71 bar)	120,000 PSI (8273.71 bar)
Engine	Cummins L9N	Cummins L9N	Cummins L9N
Displacement	543 in ³ (8.9 L)	543 in ³ (8.9 L)	543 in ³ (8.9 L)
Power	250 hp (186 kW) @ 2200 RPM	250 hp (186 kW) @ 2200 RPM	250 hp (186 kW) @ 2200 RPM
Torque	730 lb-ft (990 Nm) torque @ 1300 RPM	730 lb-ft (990 Nm) torque @ 1300 RPM	730 lb-ft (990 Nm) torque @ 1300 RPM
Transmission	Allison 3500 RDS 6-speed automatic transmission with PTO provision, synthetic fluid, temperature gauge in cab, and push button shifter	Allison 3500 RDS 6-speed automatic transmission with PTO provision, synthetic fluid, temperature gauge in cab, and push button shifter	Allison 3500 RDS 6-speed automatic transmission with PTO provision, synthetic fluid, temperature gauge in cab, and push button shifter
Alternator	160 amp	160 amp	160 amp
Batteries	(2) 12 volt, 2000 CCA, maintenance free	(2) 12 volt, 1900 CCA, maintenance free w/ disconnect switch	(2) 12 volt, 1900 CCA, maintenance free w/ disconnect switch
Wheelbase	176 in (4470 mm)	157 in (4343 mm)	171 in (4343 mm)
Turning diameter (wall-to-wall)	50.5 ft (15.39 m) (approximate)	55.66 ft (16.97 m) (approximate)	59.13 ft (18.02 m) (approximate)
Turning diameter (curb-to-curb)	48.2 ft (14.69 m) (approximate)	50.74 ft (15.47 m) (approximate)	54.13 ft (16.50 m) (approximate)
Fuel tanks	(4) Cylinders 15 DGE (56.78 DLE) each = 60 total DGE (227 DLE) shared with sweeper, located behind cab with fuel heating system and single fuel line shutoff valve with pressure regulator.	(4) Cylinders 15 DGE (56.78 DLE) each = 60 total DGE (227 DLE) shared with sweeper, located behind cab with fuel heating system and single fuel line shutoff valve with pressure regulator.	(4) Cylinders 15 DGE (56.78 DLE) each = 60 total DGE (227 DLE) shared with sweeper, located behind cab with fuel heating system and single fuel line shutoff valve with pressure regulator.
Tires (2-front, 4-rear)	Tubeless 11R x 22.5	Tubeless 11R x 22.5	Tubeless 11R x 22.5
Steering	Integral power assisted dual steering w/cruise control, 18 in (457 mm) steering wheel, dual gauges and till/telescoping steering column installed by Fontaine Modification Company.	Integral hydraulic power assist steering w/16 in (406 mm) diameter steering wheel – tilt/ telescopic steering column(s). Optional dual steering installed by Autocar.	Integral hydraulic power assist steering w/16 in (406 mm) diameter steering wheel – tilt/ telescopic steering column(s). Optional dual steering installed by Autocar.
Brakes	4 wheel air ABS w/18.7 CFM (0.53 m³/minute) air compressor	4 wheel air ABS w/18.7 CFM (0.53 m³/minute) air compressor	4 wheel air ABS w/18.7 CFM (0.53 m³/minute) air compressor
Instruments & lights	Full package as required	Full package as required	Full package as required
Seats	Basic high back air suspension seats with mechanical lumbar and integrated cushion extension.	Adjustable, individual high back air suspension seats	Adjustable, individual high back air suspension seats
Air dryer	Yes w/heater	Yes w/heater	Yes w/heater
Cruise control	Yes	Yes	Yes
Mirrors	Electric remote controlled and heated	Electric remote controlled and heated	Electric remote controlled and heated
Air conditioned cab	Yes, w/fresh air filter for cab filtration	Yes	Yes
Windows and door locks	Power	Power windows, manual door locks	Power windows, manual door locks
Exhaust system	Horizontal	Left hand outboard frame mounted vertical topstack	Left hand outboard frame mounted vertical topstack
Audio system	AM/FM/WB auxiliary input stereo radio w/digital clock	AM/FM/WB radio, CD/MP3 player, Bluetooth, USB and auxiliary input stereo w/digital clock	AM/FM/WB radio, CD/MP3 player, Bluetooth, USB and auxiliary input stereo w/digital clock
Daytime running lights	Yes	Yes	Yes
SWEEPING WIDTH (A	(approximate)		
Pick-up head only	87 in (2210 mm)	87 in (2210 mm)	87 in (2210 mm)
With 1 gutter broom	110 in (2794 mm)	110 in (2794 mm)	110 in (2794 mm)
With 2 gutter brooms	142 in (3606 mm)	142 in (3606 mm)	142 in (3606 mm)
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OVERALL DIMENSIS	ane (Annuovirente)		
OVERALL DIMENSIO	296 in (7518 mm)	270 in (6858 mm)	284 in (7213 mm)
only) Width (between outside tips of stowed twin gutter broom bristles)	121 in (3073 mm)	121 in (3073 mm)	121 in (3073 mm)
	1	118 in (2997 mm) @ auxiliary engine	118 in (2997 mm) @ auxiliary engine
Height (w/o cab bar light/beacon)	115 in (2921 mm) @ fuel rack eye bolts		