



**600**<sup>®</sup>  
AIR SWEEPER

## GENERAL SPECIFICATIONS



# MODEL 600<sup>®</sup> REGENERATIVE AIR SWEEPER<sup>®</sup> CNG AUXILIARY ENGINE/CNG CHASSIS

### SWEeper AUXILIARY ENGINE

Engine ..... KEM/GM Vortec 5700 CNG  
Displacement ..... 350 in<sup>3</sup> (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  
Oil filter ..... Spin on, full flow  
Auxiliary engine fuel rack shared with chassis engine  
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 yd<sup>3</sup> (5.6 m<sup>3</sup>)  
Capacity (useable) ..... 6 yd<sup>3</sup> (4.6 m<sup>3</sup>)  
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<sup>2</sup> (1.68 m<sup>2</sup>)  
BAH<sup>®</sup> option area ..... 3567 in<sup>2</sup> (2.3 m<sup>2</sup>)  
Suspension ..... 4 springs, 2 drag links  
Skids ..... DUO SKID<sup>®</sup>, 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 ..... 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 or air diaphragm  
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<sup>®</sup> 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<sup>®</sup> Control System

Multiplexed electrical control system which provides intelligent safety features and assists in sweeper troubleshooting with on board diagnostics (OBD).

**Outside cab** ..... Dump

### 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<sup>®</sup>)  
Camera/monitor system  
Gutter broom tilt adjuster(s) (right, left or both)  
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  
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.*

### CHASSIS AVAILABLE

Freightliner M2-112  
Autocar Xpert  
Autocar Xpert - COMDEX