



## GENERAL SPECIFICATIONS



# MODEL 210<sup>®</sup> REGENERATIVE<sup>®</sup> AIR PARKING LOT SWEEPER

## GASOLINE AUXILIARY ENGINE / GASOLINE CONVENTIONAL CAB CHASSIS

### SWEEPER AUXILIARY ENGINE

Engine .....EDI/Ford MSG-425 EFI, 4 cyl.  
 Displacement..... 152.5 in<sup>3</sup> (2.5 L)  
 Power ..... 56 hp (41.7 kW) @ 2100 RPM  
 Net torque..... 140 lb-ft (190 Nm) @ 2100 RPM  
 Air cleaner ..... Heavy duty, w/pre-cleaner  
 Oil filter ..... Spin on, full flow  
 Cooling ..... Liquid  
 Auxiliary engine fuel tank independent from chassis fuel tank  
 Aux. engine fuel tank capacity..... 19 gal (72 L)  
 Auxiliary engine protection system  
 Fuel filter..... In-line

### BLOWER

Aluminum alloy, high volume, open face turbine  
 Bearings ..... (2) Anti-friction  
 Housing ..... Steel w/abrasion resistant, replaceable liner  
 Drive ..... Heavy duty power band

### DUST SEPARATOR

Type.....Cyclonic, multipass, centrifugal separation  
 Cylindrical area.....20 x 22.5 in (51 x 57 cm)  
 Location ..... Adjacent to hopper  
 Particulate removal achieved through 22.5 in (57 cm) skimmer slot into skimmer hood  
 Inspection/cleanout port

### HOPPER

Capacity (volumetric).....2.4 yd<sup>3</sup> (1.83 m<sup>3</sup>)  
 Capacity (useable).....2.1 yd<sup>3</sup> (1.61 m<sup>3</sup>)  
 Construction .....Welded steel plate  
 Dump door opening .....52 x 23 in (132 x 58.5 cm)  
 Dump door hydraulically opened/closed  
 Dump method.....Hydraulic tilt  
 Dump direction .....Rear  
 Dump floor angle .....37°  
 Dump height (F-450) ..... 58 in (147 cm)  
 Dump height (F-350) ..... 55 in (140 cm)  
 Dump clearance height.....  
 (F-450) ..... 142 in (360.5 cm)  
 (F-350) ..... 139 in (353 cm)

### PICK-UP HEAD

Type ..... Dual chamber  
 Width (inside dimension) ..... 78 in (198 cm)  
 Pick-up head area .....2028 in<sup>2</sup> (1.31 m<sup>2</sup>)  
 Suspension ..... 4 springs, 2 drag links  
 Skids..... DUO-SKID<sup>®</sup>, long life carbide  
 Suction hose diameter..... 12 in (30.5 cm)  
 Pressure hose diameter ..... 12 in (30.5 cm)  
 Pressure bleeder ..... Cable operated  
 Reverse pick-up head system

### GUTTER BROOM, LEFT, Patented

Drive ..... Constant speed non-reversible hydraulic motor  
 Adjustment.....Adjustable for down pressure, pattern and wear  
 Down pressure ..... Automatic  
 Flexibility..... Integral anti-damage "swing away" relief valve  
 Broom..... Poly wafer 36 in (91 cm)  
 Floodlight..... LED  
 Parabolic mirror ..... 10.5 in (26.67 cm) dia.

### HYDRAULIC SYSTEM

Operates gutter broom(s), dump door and pick-up head  
 Drive ..... Belt driven from auxiliary engine  
 Flow rate.....5 GPM (18.925 LPM)  
 Reservoir ..... 8 gal (30.3 L) w/80 mesh suction strainer, sight/temperature gauge, oil cooler  
 Filter..... 10 micron in-line  
 Hydraulic oil ..... Extended life 10W ISO 46  
 Cooler..... Air to oil

### CONTROL SYSTEM

#### BlueLogic<sup>®</sup> Control System

Multiplexed electrical system includes hardware and TYMCO designed software that integrates the in-cab controls to the auxiliary engine and 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 broom(s), pick-up head, blower, and water pump (if applicable), sweeper odometer (records curb miles swept and sweeping hours), service reminders, custom reminders, overspeed warning, low water audible alarm (if applicable), dust control system winterization guide, and OBD.

#### Interior Components

Pressure bleeder control, BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter broom(s), auxiliary engine RPM, dust control water system nozzles (if applicable), safety lights

#### Exterior Components

Dump switch, BlueLogic Control Module (BCM)

### SAFETY/WARNING DEVICES

Rear view camera system  
 Back-up alarm  
 Alternating LED rear flashers (2)  
 Hopper safety prop

### OPTIONAL EQUIPMENT

Abrasion protection package  
 Additional camera view - pick-up head  
 Amber beacon light, LED  
 Auto Sweep Interrupt (ASI)  
 Auxiliary hand hose 6 in (15 cm) dia.  
 Backpack blower storage box  
 Dust control system ..... 30 gal (113 L)  
 Gutter broom(s) ..... Right (in lieu of left) or twin  
 Broom..... Poly or steel wire digger  
 32 in (81 cm) (Ford F-450 only)  
 Hopper drain system  
 Hopper slide-out screen  
 Hopper up alarm  
 Light bar, cab mounted, LED  
 Linear actuator - pressure bleeder with gauge  
 Low emissions package (required for South Coast AQMD Rule 1186)  
 Magnet, front bumper mounted, light duty  
 Rubber coated blower  
 Shop air purge, dust control system  
 Sound Reduction Engineering (SRE<sup>®</sup>)  
 Stainless steel (non-magnetic) options:  
 Hopper:  
 Hopper weldment  
 Hopper door  
 Inspection door  
 Skimmer hood  
 Slide-out hopper screen  
 Blower housing  
 Dust separator  
 Hopper drain  
 Hopper inspection door  
 Hopper screen  
 Auxiliary hand hose hardware  
 Paint color (other than TYMCO standard white)

*Special options are available. Contact your local dealer or TYMCO.*

### CONVENTIONAL CAB CHASSIS AVAILABLE

Ford F-450 Gasoline  
 Ford F-350 Gasoline