



210[®]
AIR SWEEPER



GENERAL SPECIFICATIONS



MODEL 210[®] REGENERATIVE[®] AIR PARKING LOT SWEEPER
GASOLINE AUXILIARY ENGINE / GASOLINE CABOVER CHASSIS

SWEEPER AUXILIARY ENGINE

Engine EDI/Ford MSG-425 EFI, 4 cyl.
Displacement 152.5 in³ (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 yd³ (1.83 m³)
Capacity (useable) 2.1 yd³ (1.61 m³)
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 57 in (145 cm)
Dump clearance height 141 in (358 cm)

PICK-UP HEAD

Type Dual chamber
Width (inside dimension) 78 in (198 cm)
Pick-up head area 2028 in² (1.31 m²)
Suspension (4) springs, (2) drag links
Skids DUO-SKID[®], 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 µm in-line
Hydraulic oil Extended life 10W ISO 46
Cooler Air to oil

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 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 (if applicable), and OBD.

Interior Components

Pressure bleeder control, auxiliary fuse panel, BlueLogic display, 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
Amber beacon light, LED
Auto Sweep Interrupt (ASI)
Auxiliary hand hose 6 in (15 cm) dia.
Backpack blower storage box
Cabover storage box (n/a with COMDEX)
Camera/monitor systems:
 Additional camera view - pick-up head
 CurbView camera system
Dust control system 30 gal (113 L)
COMDEX water 60 gal (227 L)
COMDEX water 102.5 gal (388 L) (Requires Isuzu NPR-HD)
Hi/Low pressure washdown system
Gutter broom(s) Right (in lieu of left) or twin
 Broom Poly or steel wire digger 32 in (81 cm)
Gutter broom tilt adjuster(s) (left, right, or twin)
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
Portering shelf
Rubber coated blower
Shop air purge, dust control system
Sound Reduction Engineering (SRE[®])
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.

CABOVER CHASSIS AVAILABLE

Isuzu NPR-HD Gasoline
Isuzu NPR Gasoline (Requires factory approval)