



210[®]

AIR SWEEPER

GENERAL SPECIFICATIONS



MODEL 210[®] REGENERATIVE[®] AIR PARKING LOT SWEEPER

DIESEL AUXILIARY ENGINE / DIESEL CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE

Engine Kubota V2403-CR-TE4B FT4, 4 cyl.
 Displacement 148.5 in³ (2.4 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/water separator with WIF sensor
 Fuel filters 10 µm primary, 5 µm secondary

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 (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 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 Gear 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[®] 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[®])
 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 Diesel
 Ford F-350 Diesel