



435[®]

AIR SWEEPER

GENERAL SPECIFICATIONS



MODEL 435[®] MID-SIZE REGENERATIVE[®] AIR SWEEPER

GASOLINE AUXILIARY ENGINE / GASOLINE CABOVER CHASSIS

SWEEPER AUXILIARY ENGINE

EngineEDI/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..... 25 gal (94 L)
 Auxiliary engine protection system
 Fuel filter..... In-line

BLOWER, RUBBER COATED

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, RUBBER LINED

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)..... 4.0 yd³ (3.06 m³)
 Capacity (useable)..... 3.1 yd³ (2.37 m³)
 Construction Welded steel plate
 Dump door opening 77.25 x 70 in (196 x 178 cm)
 Inspection door (1) Right side of hopper
 8.5 x 8.5 in (21.5 x 21.5 cm)
 Dump method Hydraulic tilt
 Dump direction Rear
 Dump floor angle 37°
 Dump height 74 in (188 cm)
 Dump clearance height..... 157 in (399 cm)
 Dump door hydraulically opened/closed
 Hopper screen lifts with door for easy cleaning
 Abrasion protection package

STORAGE COMPARTMENTS

Front 55 ft³ (1.5 m³) capacity
 Rear (2) 13.3 ft³ (0.38 m³) (ea.) capacity

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, TWIN, 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 Steel wire vertical digger 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 13.5 gal (51.1 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
 Auxiliary hydraulic system

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
 Pump Electric diaphragm
 Reservoir Polyethylene, 150 gal (567.7 L)
 Filter..... 80 mesh in-line
 Low water shut-off Safety shut-off with audible and visual indicator in cab
 Spray nozzles At gutter broom(s) and inside hopper
 Fire hydrant and garden hose connections
 Hydrant fill hose 20 ft (6 m)

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 and includes hour meters (trip and total) for the auxiliary engine, gutter broom(s), pick-up head, blower, and water pump; 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

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, safety lights, GPS sweeping status kit

Exterior Controls

Dump switch, BlueLogic Control Module (BCM)

SAFETY/WARNING DEVICES

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

OPTIONAL EQUIPMENT

Auto Sweep Assist (ASA)
 Auxiliary hand hose 6 in (15 cm) dia.
 Camera/monitor systems:
 Additional camera views:
 Pick-up head view
 Gutter broom view - left and/or right
 CurbView camera system
 Gutter broom tilt adjuster(s) (left, right, or twin)
 Gutter broom variable speed
 Gutter broom drop-down
 High output water system
 Hi/Low washdown system
 Hopper drain system
 Hopper deluge system
 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
 Pick-up head curtain lifter
 Shop air purge, dust control system
 Sound Reduction Engineering (SRE[®])
 Stainless steel (non-magnetic) options:
 Hopper:
 Hopper weldment
 Hopper door
 Hopper screen
 Inspection door
 Skimmer hood
 Suction inlet tube
 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 NRR Gasoline