



435[®]
AIR SWEEPER



GENERAL SPECIFICATIONS

**MODEL 435[®] MID-SIZE REGENERATIVE[®] AIR SWEEPER
DIESEL AUXILIARY ENGINE / DIESEL CONVENTIONAL CAB CHASSIS**

SWEEPER AUXILIARY ENGINE

EngineKubota 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
Diesel auxiliary engine fuel tank shared with chassis engine
Fuel tank capacity..... 52 gal (197 L)
Auxiliary engine protection system
Fuel/water separator

BLOWER, RUBBER LINED

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

DUST SEPARATOR, RUBBER LINED

TypeCyclonic, multipass, centrifugal separation
Cylindrical area.....20 x 22.5 in (508 x 1549 mm)
Location Adjacent to hopper
Particulate removal achieved through 22.5 in (572 mm) skimmer slot into skimmer hood
Inspection/cleanout port w/extended plug handle

HOPPER

Capacity (volumetric).....4.0 yd³ (3.06 m³)
Capacity (useable).....3.1 yd³ (2.37 m³)
ConstructionWelded steel plate
Dump door opening.....77.25 x 70 in (1962 x 1778 mm)
Dump method..... Hydraulic with tilt up
Dump height 82.5 in (2095 mm)
Dump clearance height..... 165.5 in (4204 mm)
Dump door hydraulically opened/closed
Hopper screen lifts with door for easy cleaning
Abrasion protection package
Hopper drip edge extension

STORAGE COMPARTMENTS

Rear (2) 13.3 ft³ (0.38 m³) (ea.) capacity
Front storage compartment not available

PICK-UP HEAD

TypeDual chamber
Width (inside dimension) 78 in (1981 mm)
Head area2028 in² (1.31 m²)
Suspension 4 springs, 2 drag links
Skids..... DUO-SKID[®], long life carbide
Suction hose diameter..... 12 in (305 mm)
Pressure hose diameter 12 in (305 mm)
Pressure bleeder Integral for leaf/light material pickup
Reverse pick-up head system

HYDRAULIC SYSTEM

Operates gutter brooms, dump door and pick-up head
Drive Gear 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 micron in-line
Hydraulic oilExtended life

GUTTER BROOMS, TWIN, Patented

Includes LED floodlights and parabolic mirrors
DriveConstant speed non-reversible hydraulic motor
Adjustment..... Adjustable for down pressure, pattern and wear
Down pressure Automatic
Flexibility..... All directions, Integral anti-damage "swing away" relief valve
Broom.....Steel wire vertical digger 36 in (914 mm)

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
Pump Electric diaphragm
ReservoirPolyethylene, 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 brooms and inside hopper
Fire hydrant and garden hose connections
Hydrant fill hose w/storage area 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 to the operator and includes hour meters (trip and total) for the auxiliary engine, gutter brooms, 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

Leaf pressure bleeder control, BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, auxiliary engine RPM, dust control water system nozzles, safety lights

Exterior Components

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

Additional camera views - pick-up head, left gutter broom, right gutter broom
Auto Sweep Interrupt (ASI)
Auxiliary hand hose 6 in dia. (152 mm)
Auxiliary hydraulic system
Gutter broom tilt adjuster(s) (left, right, or twin)
Gutter broom variable speed
Gutter broom drop-down
High output water system
Hi/Low pressure 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 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 for your individual requirements. Contact your local dealer or TYMCO.

CONVENTIONAL CAB CHASSIS AVAILABLE

Freightliner M2-106