

GENERAL SPECIFICATIONS



MODEL 435® REGENERATIVE AIR SWEEPER®

FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE
Engine Kubota V2403-CR-TE4B, 4 cyl. (Final Tier 4)
Displacement148.5 in ³ (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
CoolingLiquid
Diesel auxiliary engine fuel tank shared with chassis engine
Fuel tank capacity52 gal (197 L)
Auxiliary engine shutdown system
Fuel/water separator

BLOWER. RUBBER LINED

Aluminum alloy, h	igh volume, open face turbine
Purpose	.Creates air blast and suction
	Anti-friction
Housing	Abrasion resistant,
replaceable line	r
Drive	Heavy duty power band

DUST SEPARATOR, RUBBER LINED

Type	Cyclonic, multipass,
centrifugal separation	
Cylindrical area	20 x 22.5 in
(508 x 1549 mm)	
Location	Adjacent to hopper
Particulate removal achie	eved through 22.5 in
(572 mm) skimmer slo	t into skimmer hood
Inspection/cleanout port	
handle .	. 3

HOPPER

IIOI I LIX
Capacity (volumetric)4.0 yd3 (3.06 m3)
Capacity (useable)3.1 yd3 (2.37 m3)
ConstructionWelded steel plate
Dump door opening77.25 x 70 in
(1962 x 1778 mm)
Dumping method Hydraulic with tilt up
Dumping 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) Total of 26.6 ft3 (.075 m3) capacity Front storage compartment not available

PICK-UP HEAD
TypeDual chamber
Function Delivers air blast and suction
Width (inside dimension) 78 in (1981 mm)
Head area2028 in ² (1.31 m ²)
Suspension 4 springs, 2 drag links
Skids DUO-SKID®, long life carbide
Suction hose diameter12 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

parabolic mirror

Operates gutter brooms, dump door and
pick-up head
Drive Gear driven from auxiliary engine
Capacity 5 GPM (18.925 LPM)
Reservoir 13.5 gal (51.1 L) w/80 mesh
suction strainer, sight/temperature gauge, oil
cooler
Filter

Hydraulic oil Extended life

GUTTER BROOMS, TWIN, Patented Standard equipment includes floodlight and

non-reversible hydraulic motor AdjustmentAdjustable for
down pressure, pattern and wear
Down pressureAutomatically
adjusts to requirement
FlexibilityAll directions, Integral
anti-damage "swing away" relief valve
BroomSteel wire vertical digger
36 in (914 mm)

DriveConstant speed

DUST CONTROL SYSTEM

Water spray nozzles fo	
Pump	Electric diaphragm
ReservoirPolyeth	ylene, 150 gal (567.7 L)
Filter	80 mesh in-line
Low water shut-off	Safety shut-off
with low water warning	ng light in cab
	At gutter brooms
and inside honner	

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, 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 multiplex module

SAFETY/WARNING DEVICES

Alternating LED rear flashers (2) Back-up alarm Hopper safety prop

OPTIONAL EQUIPMENT

Air purge, dust control system Auto Sweep Interrupt (ASI) Auxiliary hand hose 6 in dia. (152 mm) Auxiliary hydraulic system Camera/monitor 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, not applicable with high output water system) Magnet front bumper mounted, light duty Pick-up head curtain lifter 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

Washdown hose reel, 50 ft (15 m) retractable 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